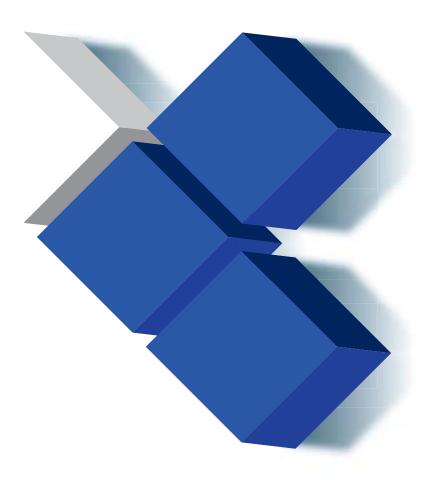
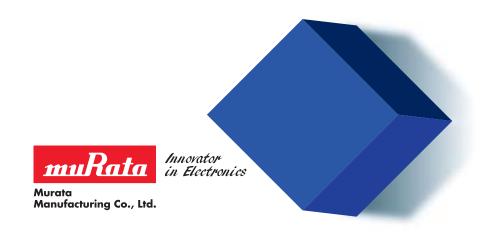
Chip Monolithic Ceramic Capacitors





Explanation of Symbols in This Catalog

LxW dimension: products of 0.6x0.3 mm or less



Low dissipation for high frequency By devising ceramic materials and electrode materials, low dissipation is achieved in frequency bands of VHF, UHF and microwave or beyond.



Low ESL Low inductance
This capacitor is designed so that the parasitic inductance component (ESL) that the capacitor has on the high frequency



AntiProduct suitable for acoustic noise reduction and low distortion se This product suppresses acoustic noise, which occurs when a ceramic capacitor is used, by devising the materials and configuration.



Product resistant to deflection cracking This capacitor is designed to prevent failures as much as possible by short mode caused by cracking when there is board deflection.



Product with solder cracking suppression This capacitor is configured with metal terminals

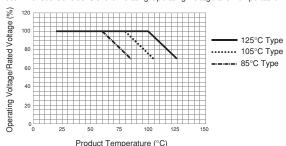
and leads connected to the chip.

The metal terminals and leads relieve the stress from expansion and contraction of the solder, to suppress solder cracking.

Voltage and temperature derating recommended product This product is suitable when a voltage continuously applied to a capacitor in an operating circuit, is used below (derated)

the rated voltage of the capacitor.
This model guarantees the test conditions in the endurance test, at a rated voltage x 100% at the maximum operating temperature. A reliability assurance level equivalent to a common product can be secured, by using this product within the voltage and temperature derated conditions recommended in the figure below.

Recommended Conditions of the Derating Operating Voltage and Temperature

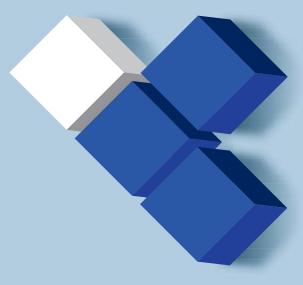


EU RoHS Compliant

- · All the products in this catalog comply with EU RoHS.
- · EU RoHS is "the European Directive 2011/65/EU on the Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment.'
- ·For more details, please refer to our website 'Murata's Approach for EU RoHS' (http://www.murata.com/info/rohs.html).



For General Purpose GRM Series Capacitance Table





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Product specifications are as of July 2012.

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Chip Monolithic Ceramic Capacitors (Medium Voltage)

Cap. Table

For General Purpose
GRM (250Vdc min.)/GRJ/GR3 Series

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High Dielectric Constant Type	
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Ripple Current GR3 Seriesp153	p11
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Chip Monolithic Ceramic Capacitors

Cap. Table

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capacitor fural curio	ρ, ο	ρ.

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IEC60384-14 Class Y2, X1/Y2 Type GF · · p174	p13
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Metal Terminal Monolithic Ceramic Capacitors

Cap. Table

For General Purpose KRM/KR3 Series

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Selection Guide For Chip Monolithic Ceramic Capacitors

	Formation	Tomas	0
	Function	Туре	Series GRM (X5R, X7R, Y5V etc.)
	Decoupling, Smoothing	High Capacitance	68pF–150μF
		Array (2 or 4 Elements)	GNM 470pF–2.2μF
	Frequency Control/Tuning,	Class 1 TC's	GRM (C0G) 0.1pF–0.1μF
	Impedance Matching	Class I IC S	GRM (U2J etc.)
		Low Inductance (Reverse Geometry)	LLL 2200pF–10μF
-	High Speed Decoupling	Low Inductance (Controlled ESR)	LLR 1.0μF
		Low Inductance (Multi-Termination)	LLA/LLM (From 1GHz) 0.01μF–4.7μF
	High Fraguency	Low ESR, Ultra Small	GJM (500MHz to 10GHz) 0.1pF–47pF
	High Frequency	Lowest ESR	GQM (500MHz to 10GHz) 0.1pF-100pF
	Optical Communications	Wire-Die-Bonding	GMA 100pF–0.47μF GMD 100pF–0.47μF
-	250Vdc min. High-Frequency Snubber	250V/630V/1kV/2kV/3.15kV Low Dissipation	GRM (C0G, U2J) 10pF–47000pF
	250Vdc min. LCD Backlight Inverter	3.15kV Low Dissipation	GRM (C0G) 5pF–47pF
		250V/630V/1kV High Capacitance	GRM (X7R) 220pF–1μF
н	250Vdc min. Decoupling, Smoothing	250V/630V/1kV Soft Termination	GRJ (X7R) 470pF–1μF
		250V/450V/630V Large Capacitance and High Allowable Ripple Current	GR3 (X7T) 10000pF–1µF
	250Vdc min. For Camera Flash Circuit only	350V High Capacitance	GR7 10000pF–47000pF
	250Vdc min.	2kV High Capacitance	GR4 100pF–10000pF
	For Information Devices only	Safety Standard Certified	Type GD 10pF–4700pF Type GF 10pF–4700pF
	AC Lines Noise Removal	Safety Standard Certified	Type GC 100pF-330pF Type GF 470pF-4700pF Type GB 10000pF-56000pF
	AO LINES NOISE NEITIOVAL	AC250V which meets Japanese Law	GA2 470pF–0.1μF
	Automotive (Powertrain,	High Capacitance	GCM (X7R etc.) 100pF–47μF
	Safety Equipment)	Class 1 TC's	GCM (C0G etc.) 1.0pF–56000pF
	250Vdc min. for Automotive	250V/630V/1kV Low Dissipation	GCM (U2J) 10pF–47000pF
	(Powertrain, Safety Equipment)	250V/630V Soft Termination	GCJ (X7R) 1000pF–0.47μF



■ Temperature Characteristics Table

Temperature Characteristic C	е	Ter	mperature Chai	racteristics	Operating	Сара	acitance	Change	Each Ter	emperature (%)		
Public		Reference	Temperature	Capacitance Change	Temperature Range	-5	5°C	-2	5°C	-10	0°C	
STD Code		Temperature	Range	or Temperature Coefficient		Max.	Min.	Max.	Min.	Max.	Min.	
C0G	EIA	25°C	25 to 125°C	0±30ppm/°C	–55 to 125°C	0.58	-0.24	0.4	-0.17	0.25	-0.11	
C0H	EIA	25°C	25 to 125°C	0±60ppm/°C	–55 to 125°C	0.87	-0.48	0.59	-0.33	0.38	-0.21	
CK	JIS	20°C	20 to 125°C	0±250ppm/°C	–55 to 125°C	2.56	-1.88	1.54	-1.13	1.02	-0.75	
CJ	JIS	20°C	20 to 125°C	0±120ppm/°C	–55 to 125°C	1.37	-0.9	0.82	-0.54	0.55	-0.36	
CH	JIS	20°C	20 to 125°C	0±60ppm/°C	–55 to 125°C	0.82	-0.45	0.49	-0.27	0.33	-0.18	
SL	JIS	20°C	20 to 85°C	+350 to -1000ppm/°C	–55 to 125°C	-	-	-	-	-	-	
P2H	EIA	25°C	25 to 85°C	-150±60ppm/°C	–55 to 125°C	2.33	0.72	1.61	0.5	1.02	0.32	
PK	JIS	20°C	20 to 85°C	-150±250ppm/°C	−25 to 85°C	-	-	2.36	-0.45	1.57	-0.3	
PJ	JIS	20°C	20 to 85°C	-150±120ppm/°C	–25 to 85°C	-	-	1.65	0.14	1.1	0.09	
PH	JIS	20°C	20 to 85°C	-150±60ppm/°C	−25 to 85°C	-	-	1.32	0.41	0.88	0.27	
R2H	EIA	25°C	25 to 85°C	–220±60ppm/°C	–55 to 125°C	3.02	1.28	2.08	0.88	1.32	0.56	
RK	JIS	20°C	20 to 85°C	-220±250ppm/°C	−25 to 85°C	-	-	2.74	-0.14	1.83	-0.09	
RJ	JIS	20°C	20 to 85°C	-220±120ppm/°C	–25 to 85°C	-	-	2.03	0.45	1.35	0.3	
RH	JIS	20°C	20 to 85°C	−220±60ppm/°C	–25 to 85°C	-	-	1.7	0.72	1.13	0.48	
S2H	EIA	25°C	25 to 85°C	-330±60ppm/°C	–55 to 125°C	4.09	2.16	2.81	1.49	1.79	0.95	
SK	JIS	20°C	20 to 85°C	-330±250ppm/°C	–25 to 85°C	-	-	3.35	0.36	2.23	0.24	
SJ	JIS	20°C	20 to 85°C	-330±120ppm/°C	–25 to 85°C	-	-	2.63	0.95	1.76	0.63	
SH	JIS	20°C	20 to 85°C	-330±60ppm/°C	–25 to 85°C	-	-	2.3	1.22	1.54	0.81	
T2H	EIA	25°C	25 to 85°C	-470±60ppm/°C	–55 to 125°C	5.46	3.28	3.75	2.26	2.39	1.44	
TK	JIS	20°C	20 to 85°C	-470±250ppm/°C	–25 to 85°C	-	-	4.12	0.99	2.74	0.66	
TJ	JIS	20°C	20 to 85°C	-470±120ppm/°C	–25 to 85°C	-	-	3.4	1.58	2.27	1.05	
TH	JIS	20°C	20 to 85°C	-470±60ppm/°C	–25 to 85°C	-	-	3.07	1.85	2.05	1.23	
U2J	EIA	25°C	25 to 125°C	-750±120ppm/°C	–55 to 125°C	8.78	5.04	6.04	3.47	3.84	2.21	
UK	JIS	20°C	20 to 85°C	-750±250ppm/°C	−25 to 85°C	-	-	5.65	2.25	3.77	1.5	
UJ	JIS	20°C	20 to 85°C	-750±120ppm/°C	−25 to 85°C	-	-	4.94	2.84	3.29	1.89	
X7R	EIA	25°C	–55 to 125°C	±15%	–55 to 125°C	-	-	-	-	-	-	
X7S	EIA	25°C	–55 to 125°C	±22%	–55 to 125°C	-	-	-	-	-	-	
X7T	EIA	25°C	–55 to 125°C	+22%, -33%	–55 to 125°C	-	-	-	-	-	-	
X7U	EIA	25°C	–55 to 125°C	+22%, -56%	–55 to 125°C	-	-	-	-	-	-	
R	JIS	20°C	–55 to 125°C	±15%	–55 to 125°C	-	-	-	-	-	-	
X6S	EIA	25°C	−55 to 105°C	±22%	−55 to 105°C	-	-	-	-	-	-	
X6T	EIA	25°C	−55 to 105°C	+22%, -33%	−55 to 105°C	-	-	-	-	-	-	
X5R	EIA	25°C	−55 to 85°C	±15%	−55 to 85°C	-	-	-	-	-	-	
X5S	EIA	25°C	−55 to 85°C	±22%	−55 to 85°C	-	-	-	-	-	-	
В	B JIS 20°C –25 to 85°C		±10%	−25 to 85°C	-	-	-	-	-	-		
-: Murata Temperature Cha	racteristic	25°C	−55 to 125°C	±10%	–55 to 125°C	-	-	-	-	-	-	

■ GRM Series



For the Capacitance Table of General Purpose GRM Series, please review the inserted Capacitance Table of "Chip Monolithic Ceramic Capacitor and General Purpose GRM Series".



■ GRM Series Temperature Compensating Type

- GRIVI Serie		-																				
p00 ← Part Num	nber Lis	st .	JIS:	CK	CJ	СН	SL	PK	PJ	PH	RK	RJ	RH	l S	K	SJ S	SH	TK	TJ	TH	UK	UJ
		E	EIA: C	oG F	P2H	R2H	S2H	T2H	U2J													
L×W (mm)		0.4	×0.2						0.6	×0.3								1.0	×0.5			
T max. (mm)		0.	22						0.	33					0.	33			0.	55		
Rated Voltage (Vdc)	1	6	1	0		50					25				5	0			5	0		
Cap. / TC Code	COG	CΔ	COG	СН	COG	СΔ	UΔ	R2H	RΔ	S2H	SΔ	T2H	TΔ	UJ	COG	СΔ	COG	СΔ	P2H	ΡΔ	R2H	RΔ
0.1pF					p28	p32									p36	p38	p39	p42				
0.2pF	p22	p25			p28	p32									p36	p38	p39	p42				
0.5pF	p22	p25			p28	p32									p36	p38	p39	p42				
1.0pF	p22	p25			p28	p32	p35	p35	p35	p35	p36	p36	p36		p37	p38	p39	p42	p46	p46	p46	p46
2.0pF	p22	p25			p29	p32	p35	p35	p35	p36	p36	p36	p36		p37	p38	p39	p43	p46	p46	p46	p46
3.0pF	p22	p25			p29	p32	p35	p35	p35	p36	p36	p36	p36		p37	p38	p39	p43	p46	p46	p46	p46
4.0pF	p23	p26			p29	p33	p35	p35	p35	p36	p36	p36	p36		p37	p38	p40	p43	p46	p46	p46	p46
5.0pF	p23	p26			p30	p33	p35	p35	p35	p36	p36	p36	p36		p37	p38	p40	p44	p46	p46	p46	p46
6.0pF	p23	p26			p30	p33	p35	p35	p35	p36	p36	p36	p36		p37	p38	p40	p44	p46	p46	p46	p46
7.0pF	p24	p27			p30	p34	p35	p35	p35	p36	p36	p36	p36		p37	p38	p41	p44	p46	p46	p46	p46
8.0pF	p24	p27			p31	p34	p35	p35	p35	p36	p36	p36	p36		p37	p38	p41	p45	p46	p46	p46	p46
9.0pF	p24	p28			p31	p34	p35	p35	p35	p36	p36	p36	p36		p37	p38	p41	p45	p46	p46	p46	p46
10pF	p25	p28			p31	p35	p35	p35	p35	p36	p36	p36	p36		p37	p38	p42	p45	p46	p46	p46	p46
12pF	p25	p28			p31	p35	p35	p35	p35	p36	p36	p36	p36		p37	p39	p42	p45	p46	p46	p46	p46
15pF	p25	p28			p31	p35	p35	p35	p35	p36	p36	p36	p36		p37	p39	p42	p45	p46	p46	p46	p46
18pF	p25	p28			p31	p35		p35	p35	p36	p36	p36	p36	p36	p37	p39	p42	p45	p46	p46	p46	p46
22pF	p25	p28			p31	p35		p35	p35	p36	p36	p36	p36	p36	p37	p39	p42	p45	p46	p46	p46	p46
27pF	p25	p28			p31	p35		p35	p35	p36	p36	p36	p36	p36	p37	p39	p42	p46	p46	p46	p46	p46
33pF	p25	p28			p31	p35		p35	p35	p36	p36	p36	p36	p36	p37	p39	p42	p46			p46	p46
39pF	p25	p28			p32	p35		p35	p35	p36	p36	p36	p36	p36	p37	p39	p42	p46				
47pF	p25	p28			p32	p35		p35	p35	p36	p36	p36	p36	p36	p37	p39	p42	p46				
56pF			p28	p28	p32	p35		p35	p35	p36	p36	p36	p36	p36	p37	p39	p42	p46				
68pF			p28	p28	p32	p35		p35	p35	p36	p36	p36	p36	p36	p37	p39	p42	p46				
82pF			p28	p28	p32	p35		p35	p35	p36	p36	p36	p36	p36	p37	p39	p42	p46				
100pF			p28	p28	p32	p35		p35	p35	p36	p36	p36	p36	p36	p37	p39	p42	p46				
120pF															p37	p39	p42	p46				
150pF															p37	p39	p42	p46				
180pF											ery 0.				p38	p39	p42	p46				
220pF											than				p38	p39	p42	p46				
270pF								ter to t ails.	ine Pa	art Nui	mber I	_ist to			p38	p39	p42	p46				
330pF							det	alls.							p38	p39	p42	p46				
390pF															p38	p39	p42	p46				
470pF															p38	p39	p42	p46				
560pF															p38	p39	p42	p46				
680pF															p38	p39	p42	p46				
820pF																	p42	p46				
1000pF																	p42	p46				





p00 Each number in the Part Number List refers to the page number printed at the bottom of the page

(→ **GRM** Series Temperature Compensating Type)

CJ СН SL PJ RK RJ SH ΤH UK UJ p00 ← Part Number List JIS: CK PK PH EIA: R2H T2H P2H 1.0×0.5 1.6×0.8 L×W (mm) 0.55 0.5 0.9 T max. (mm) Rated Voltage (Vdc) 50 10 50 10 100 50 10 U2J Cap. / TC Code T2H U2J UJ U2J COG U2J SL S2H $S\Delta$ $\mathsf{T}\Delta$ $U\Delta$ SL UJ SL SL UJ COG $\mathsf{C}\Delta$ СΛ SL UJ 0.5pF p51 p58 1.0pF p51 p58 p46 p47 p47 p47 p47 The indication for every 0.1 pF has p58 2.0pF p46 p47 p47 p52 p47 p47 been omitted for less than 10 pF 3.0pF p47 p47 p47 p52 p59 Refer to the Part Number List for 4.0pF p47 p47 p52 p59 p47 p47 details. p52 p59 5.0pF p47 p47 p47 p47 p49 p47 p53 p59 6.0pF p47 p47 p47 7.0pF p47 p47 p47 p53 p60 p47 p47 8.0pF p47 p47 p47 p47 p54 p60 p54 p61 9.0pF p47 p47 p47 p47 10pF p47 p47 p47 p47 p47 p54 p61 12pF p47 p47 p47 p54 p61 p47 p47 p47 p61 15pF p47 p47 p54 p54 p61 18pF p47 p47 p47 p47 p47 22pF p47 p47 p47 p47 p54 p61 p61 p47 p47 p47 p47 p54 27pF p47 p61 33pF p47 p47 p47 p47 p54 p61 39pF p47 p47 p47 p47 p54 p54 p61 47pF p47 p47 p47 p47 p47 56pF p54 p61 68pF p54 p61 p47 p47 p47 p61 82pF p47 p47 p54 p54 p61 100pF p47 p47 p47 p54 p61 120pF 150pF p47 p54 p61 180pF p47 p54 p61 p54 p61 220pF 270pF p54 p61 p54 p61 330pF 390pF p54 p61 p54 p61 470pF p61 560pF p54 680pF p54 p61 820pF p54 p61 p61 1000pF p54 p61 1200pF p47 p48 p54 p61 p61 p61 1500pF p48 p55 p61 p61 p61 p47 p47 1800pF p47 p48 p61 p61 p61 p61 p61 p61 2200pF p47 p48 p48 p48 p48 p61 p61 p61 2700pF p48 p48 p61 p61 p61 p47 p48 3300pF p47 p48 p48 p48 p61 p61 p61 3900pF p47 p48 p48 p61 p61 p61 p48 p48 p61 4700pF p47 p48 p48 p61 p61 5600pF p48 p48 p61 p62 p62 7q0086 p48 p61 p48 8200pF p48 p48 p61 p62 p62 10000pF p48 p48 p61 p62 12000pF p62 15000pF p62 18000pF p62 22000pF

(→ ■ GRM Series Temperature Compensating Type)

p00 ← Part Number List JIS: CK CJ CH SL PK PJ PH RK RJ RH SK SJ SH TK TJ TH UK UJ
EIA: COG P2H R2H S2H T2H U2J

		E	:IA:	UG F	² 2H	R2H	S2H	12H	U2J													
L×W (mm)	1.6	<0.8										2.0×	1.25									
T max. (mm)	0	.9				0.7							0.	95						1		
Rated Voltage (Vdc)	1	0	10	00			50					50				10		25	50		50	
Cap. / TC Code	U2J	UJ	COG	СН	COG	СН	SL	U2J	UJ	COG	СН	SL	U2J	UJ	SL	U2J	UJ	COG	U2J	SL	U2J	UJ
10pF																		p136				
12pF																		p136				
15pF																		p136				
18pF																		p136				
22pF																		p136				
27pF																		p136				
33pF																		p136				
39pF																		p136				
47pF																		p136				
56pF																		p136				
68pF																		p136				
82pF																		p136				
100pF			p62	p62														p136	p137			
120pF			p62	p62														p136	p137			
150pF			p62	p62														p136	p137			
180pF			p62	p62														p136	p137			
220pF			p62	p62														p136	p137			
270pF			p62	p62														p136	p137			
330pF			p62	p62														p136	p137			
390pF			p62	p62															p137			
470pF			p62	p62															p137			
560pF			p62	p62															p137			
680pF			p62	p62															p137			
820pF			p62	p62															p137			
1000pF			p62	p62															p137			
1200pF			p62	p62	p62	p62													p138			
1500pF			p62	p62	p62	p62													p138			
1800pF			p62	p62	p62	p62													p138			
2200pF			p62	p62	p62	p62													p138			
2700pF			p62	p62	p62	p62																
3300pF			p62	p62	p62	p62																
3900pF					p62	p62																
4700pF					p62	p62																
5600pF										p62	p62											
6800pF					!					p62	p62											
8200pF										p62	p62											
10000pF									p62	p62	p62											
12000pF	p62	p62					p62	p62	p62	p62	p62											
15000pF	p62	p62			1		p62	p62	p62	p62	p62											
18000pF	p62	p62					p62	p62	p62													
22000pF	p62	p62							,			p62	p62	p62								
27000pF		,			!							p62	p62	p62								
33000pF												P-32	POE	732						p62	p62	p63
39000pF																					,	J- 30
47000pF																						
56000pF															p62	p62	p62	İ				
30000pF					!										PUZ	P02	PUZ					7
																						/

Capacitance Table Part Number List refers to the page number printed at the bottom of the page.

$(\rightarrow \blacksquare$ GRM Series Temperature Compensating Type)

p00 ← Part Number List JIS	: CK	CJ	CH	SL	PK	PJ	PH	RK	RJ	RH	SK	SJ	SH	TK	TJ	TH	UK	UJ
EIA	COG	P2H	R2H	S2H	T2H	U2J												

	EIA: COG P2H R2H S2H T2H I																					
L×W (mm)				2	.0×1.2	5									3	3.2×1.6	o o					
T max. (mm)				1.3					1.45				0.95							<u> </u>		
Rated Voltage (Vdc)			50				10		250	10	00			50			2000	10	00	63	30	250
	COG	СН	SL	U2J	UJ	SL	U2J	UJ	U2J	COG	СН	COG	СН	SL	U2J	UJ	U2J	COG	U2J	COG	U2J	U2J
10pF																	p139	p137	p139		p138	
12pF																	p139	p137	p139		p138	
15pF																	p139	p137	p139	p136	p138	
18pF																	p139	p137	p139	p136	p138	
22pF																	p139	p137	p139		p138	
27pF																	p139	p137	p139	p137	p138	
33pF																	p139	p137	p139	p137	p138	
39pF																	p139	p137	p139	p137	p138	
47pF																	p139	p137	p139	p137	p138	
56pF														1			p139	p137	p139	p137	p138	
68pF																	p139	p137	p139	p137	p138	
82pF																		p137	p139	p137	p138	
100pF																		p137	p139		p138	
120pF																		p137	p139	p137	p138	
150pF																		p137	p139	p137	p138	
180pF																		p137	p139		p138	
220pF									!									p137	p139		p138	
270pF																			p139	p137	p138	
330pF																			p139	p137	p138	
390pF																				p137	p138	
470pF																				p137	р138	
560pF																				p137	p138	
680pF									!												p138	
820pF																					p138	
1000pF																					p138	
1200pF																					p138	
1500pF									!												p138	
1800pF										p63	p63										p138	
2200pF										p63	p63										p138	
2700pF									p138		p63											p138
3300pF									p138	p63	p63											p138
3900pF									p138	p63	p63											p138
4700pF									p138	p63	p63											p138
5600pF									p138	p63	p63											p138
6800pF										p63	p63											
8200pF									!	p63	p63											
10000pF										p63	p63											
12000pF										p63	p63	p63	p63									
15000pF										p63	p63	p63	p63									
18000pF	p63	p63								p63	p63	p63	p63									
22000pF	p63	p63								p63	p63	p63	p63									
27000pF												p63	p63									
33000pF												p63	p63									
39000pF			p63	p63	p63							p63	p63									
47000pF			p63	p63	p63																	
56000pF														p63	p63	p63						
68000pF						p63	p63	p63						-								
82000pF						p63	p63	p63														
0.1µF						p63	p63	p63														
0				:		,		,									-					

$(\rightarrow \blacksquare$ GRM Series Temperature Compensating Type)

p00 ← Part Number List	JIS:	CK	CJ	СН	SL	PK	PJ	PH	RK	RJ	RH	SK	SJ	SH	TK	TJ	TH	UK	UJ
	EIA:	COG	P2H	R2H	S2H	T2H	U2J												

		E	EIA: C	0G F	P2H	R2H	S2H	T2H	U2J													
L×W (mm)						;	3.2×1.6	6									;	3.2×2.5	5			
T max. (mm)					1.25						1.	.8			1		1.25		1.	.5	2	2
Rated Voltage (Vdc)	1000	63	30	250			50			1000	630	5	0	2000	630	2000	1000	630	1000	630	1000	630
Cap. / TC Code	U2J	COG	U2J	U2J	COG	СН	SL	U2J	UJ	U2J	U2J	COG	СН	U2J	U2J	U2J	U2J	U2J	U2J	U2J	U2J	U2J
82pF														p140								
100pF														p140								
120pF														p140								
150pF														p140								
180pF																p140						
220pF																p140						
270pF																i ! !						
330pF																						
390pF	p139																					
470pF	p139								!							!						
560pF	p139																					
680pF	p139	p137																				
820pF		p137								p139												
1000pF		p137								p139												
1200pF															p138		p139					
1500pF															p138				p139			
1800pF															p138						p139	
2200pF															p138						p139	
2700pF			p138																			
3300pF			p138																			
3900pF											p138					! !						
4700pF											p138											
5600pF																		p138				
6800pF				p138												!				p138		
8200pF				p138																		p138
10000pF				p138																		p139
12000pF																						
15000pF																						
18000pF																						
22000pF																						
27000pF																						
33000pF																						
39000pF					n.CO	nC0										1						
47000pF 56000pF					p63	p63										!						
					p63	p63	nC0	n.CO.	-00			nCO.	m.00									
68000pF 82000pF							p63	p63	p63			p63	p63			!						
82000pF 0.1μF							p63	p63 p63	p63			p63 p63	p63									
υ.τμε			1		<u> </u>		μου	pos	p63			pos	p63			!		1				

(→ ■ GRM Series Temperature Compensating Type)

p00 ← Part Num	nber Lis	st .	JIS: (CK	CJ	СН	SL	PK	PJ	PH	RK	RJ
						R2H	S2H	T2H	U2J			
L×W (mm)	4.5× 2.0			<3.2				×5.0				
T max. (mm)		1	.5		2	1	.5	2)			
Rated Voltage (Vdc)		1000	630	1000	630	1000	630	1000	630			
Cap. / TC Code		U2J	U2J	U2J	U2J	U2J	U2J	U2J	U2J			
27pF	p140				!							
33pF	p140											
39pF	p140											
47pF	p140											
56pF	p140											
68pF	p140				!							
82pF	p140											
100pF	p140											
120pF												
150pF					1							
180pF												
220pF												
270pF												
330pF												
390pF												
470pF												
560pF												
680pF												
820pF 1000pF												
1200pF												
1500pF												
1800pF												
2200pF												
2700pF		p139										
3300pF		p139										
3900pF				p139								
4700pF				p139								
5600pF					1	p139						
6800pF						p139						
8200pF					!			p139				
10000pF								p139				
12000pF			p139									
15000pF					p139							
18000pF					p139							
22000pF					p139							
27000pF							p139					
33000pF									p139			
39000pF									p139			
47000pF									p139			



p00 ← Part Num	ber Lis	st J	JIS:	R	В	El	A : X7	'R X	(7S	X7T	X7U	X6S	X6T	X5F	R X5	S						
L×W (mm)		0.4>	<0.2							0.6	×0.3								1.0>	<0.5		
T max. (mm)		0.2	22							0.	33								0.3	22		
Rated Voltage (Vdc)	10	0	6.3	4	5	50	2	5	1	6	1	0		6.3		4	10	6	.3	4	1	2.5
Cap. / TC Code	X7R	X5R, B	X5R, B	X5R	X7R	В	X7R, R	X5R, B	X7R, R	X5R, B	X7R, R	X5R, B	X7R, R	X6S	X5R, B	X6S	X5R, B	X6S	X5R, B	X7T	Х6Δ	X7T
68pF	p64	p64 p64																				
100pF	p64	p64 p64			p65	p65	p65 <mark>p65</mark>	p65 p65														
150pF	p64	p64 p64			p65	p65	p65 <mark>p65</mark>	p65 p65														
220pF	p64	p64 p64			p65	p65	p65 <mark>p65</mark>	p65 p65														
330pF	p64	p64 p64			p65	p65	p65 <mark>p65</mark>	p65 p65														
470pF	p64	p64 p64			p65	p65	p65 <mark>p65</mark>	p65 p65														
680pF		p64 p64	p64 p6 4		p65	p65	p65 <mark>p65</mark>	p65 p65														
1000pF		p64 p64	p64 p6 4		p65	p65	p65 <mark>p65</mark>	p65 p65														
1500pF		p64 p64	p64 p6 4		p65	p65	p65 <mark>p65</mark>	p65														
2200pF		p64 p64	p64 p6 4				p65	p65	p65 <mark>p65</mark>	p65												
3300pF		p64 p64	p64 p64				p65	p65	p65 <mark>p65</mark>	p65												
4700pF		p64 p64	p64 p64								p65 <mark>p65</mark>	p65 p66	p66 <mark>p66</mark>		p66							
6800pF		p64 p64	p64 p64								p65 <mark>p65</mark>	p66 p66	p66 <mark>p66</mark>		p66							
10000pF		p64 p64	p64 p64					p65 p65		p65 p65	p65 <mark>p65</mark>	p66 p66	p66 <mark>p66</mark>		p66 p66							
12000pF												p66 p66										
15000pF			p64	p64								p66 p66		p66	p66 p66							
18000pF												p66 p66										
22000pF			p64	p64								p66 p66		p66	p66 p66							
27000pF												p66 p66										
33000pF			p64	p64								p66 p66		p66	p66 p66							
39000pF												p66 p66										
47000pF			p64	p64								p66 p66		p66	p66 p66							
68000pF			p64	p64								p66 p66		p66								
0.1µF			p64	p64						p65 p65		p66 p66		p66			p66 <mark>p66</mark>	p66	p67 <mark>p67</mark>	p67	p67	p67
0.15μF																						
0.22µF												p66		p66	p66	p66	p66 p66	p67	p67 p67	p67	p67	p67
0.33µF																						
0.47µF																			p67 <mark>p67</mark>		p67	
0.68µF																						
1.0µF																						
2.2µF																						
4.7μF																						
10μF 22μF																						
22μF 47μF																						
4/μF 100μF																						
150μF																						
ΙουμΕ				<u> </u>		<u> </u>			1													



p00 ← Part Num	nber Lis	st .	JIS:	R	В	EI	A: X7	'R X	7S	X7T	X7U	X6S	X6T	X5F	R X5	is						
L×W (mm)											1.0	×0.5										
T max. (mm)				0.3						0.33							0.	55				
Rated Voltage (Vdc)	5	0	2	5	1	6	10	10	6	.3	4	4	100		50			25		1	6	10
Cap. / TC Code	X7R, R	В	X7R	В	X7R	В	X5R	X5R, B	X6T	X5R, B	X6T	X5R	X7R	Χ7Δ, R	X6S	X5R, B	X7R, R	X6S	X5R, B	X7R, R	X5R, B	X7R, R
68pF																						
100pF																						
150pF																						
220pF	p67 <mark>p67</mark>	p67											p67	p67 <mark>p68</mark>		p68						
330pF	p67 <mark>p67</mark>	p67					!				:		p67	p67 <mark>p68</mark>		p68				:		1
470pF	p67 <mark>p67</mark>	p67											p67	p67 <mark>p68</mark>		p68						
680pF	p67 <mark>p67</mark>	p67											p67	p67 <mark>p68</mark>		p68						
1000pF	p67 <mark>p67</mark>	p67											p67	p67 <mark>p68</mark>		p68 p68						
1500pF	p67 <mark>p67</mark>	p67											p67	p67 <mark>p68</mark>		p68						
2200pF			p67	p67									p67	p67 <mark>p68</mark>		p68 p68						
3300pF					p67	p67							p67	p67 <mark>p68</mark>		p68						
4700pF					p67	p67							p67	p67 <mark>p68</mark>		p68 p68			p68			
6800pF					p67	p67								p67 <mark>p68</mark>		p68	p68 <mark>p68</mark>		p68			
10000pF					p67	p67								p67 <mark>p68</mark>		p68	p68 <mark>p68</mark>		p68			
12000pF																						
15000pF							p67							p67		p68	p68 <mark>p68</mark>		p68			
18000pF																						
22000pF							p67							p67		p68	p68 <mark>p68</mark>		p68			
27000pF																						
33000pF							p67							p67		p68	p68 <mark>p68</mark>		p68	p68 <mark>p68</mark>	p68 p69	
39000pF																						
47000pF														p68		p68	p68 <mark>p68</mark>			p68 <mark>p68</mark>	_	
68000pF														p68		p68		p68		p68 <mark>p68</mark>	p68 p69	p69 <mark>p69</mark>
0.1µF														p68	p68	p68 p68	p68	p68	p68 p68			
0.15μF																				p68		:
0.22µF																				p68		
0.33µF																						
0.47µF																						
0.68µF							!									!						i
1.0µF								p67 p67	p67	p67 p67	p67	p67							p68 <mark>p68</mark>		p69 p6 9	
2.2µF																						
4.7µF																						
10μF																						
22µF																						
47μF																						
100µF																						
150µF							<u> </u>					<u> </u>				1						

p00 ← Part Num	ber Lis	st J	JIS:	R	В	EI	A: X7	'R X	7S 2	X7T	X7U	X6S	X6T	X5F	R X5	S						
L×W (mm)					1.0>	<0.5										1.6	×0.8					
T max. (mm)			0.	55			0.55, 0.6	0.6, 0.7	0.6	0.7	0.	.5					0.9					0.9, 0.95, 1
Rated Voltage (Vdc)	1	0	6	.3	4	1	6.3	4	2.5	2.5	25	16	250	100	5	0	2	:5	16	6.3	2.5	25
Cap. / TC Code	X6S	X5R, B	X7R	X6S	X7R	Х6Δ	X5R, B	X5R, B	X6T	X5R	X5R, B	X5R, B	X7R	X7R	X7R, R	X5R, B	X7R, R	X6S	Χ7Δ, R	X6S	X6S	X5R, B
68pF																						
100pF																						
150pF																						
220pF													p143	p69	p70 <mark>p70</mark>	p70						
330pF													p143	p69	p70 <mark>p70</mark>	p70						
470pF													p143	p69	p70 <mark>p70</mark>	p70						
680pF													p143	p70	p70 <mark>p70</mark>	p70						
1000pF													p143	p70	p70 <mark>p70</mark>	p70 p70						
1500pF													p143	p70	p70 <mark>p70</mark>	p70						
2200pF													p143	p70	p70 <mark>p70</mark>	p70 p70						0.9 p71
3300pF														p70	p70 <mark>p70</mark>	p70						0.9
4700pF														p70	p70 <mark>p70</mark>	p70 p70						0.9 p71
6800pF														p70	p70 <mark>p70</mark>	p70						0.9 p71
10000pF														p70	p70 <mark>p70</mark>	p70 p70						0.9 p71
12000pF																						
15000pF														p70	p70 <mark>p70</mark>	p70	p70 <mark>p71</mark>					0.9 p71
18000pF																						
22000pF														p70	p70 <mark>p70</mark>	p70 p70	p70 <mark>p71</mark>					0.9 p71
27000pF																						
33000pF															p70 <mark>p70</mark>	p70	p70 <mark>p71</mark>					0.9 p71
39000pF																						
47000pF															p70 <mark>p70</mark>	p70	p70 <mark>p71</mark>					0.9 p71
68000pF															p70 <mark>p70</mark>	p70	p70 <mark>p71</mark>					0.9 p71 0.9 0.9 p71 p71
0.1µF														p70	p70 <mark>p70</mark>	p70						0.9 <mark>0.9</mark> p71 p71
0.15µF		p69 p69		p69		p69	0.55 0.55 p69 p69									p70	p70 <mark>p71</mark>		p71 <mark>p71</mark>			0.9 p71
0.22µF		p69 p69		p69		p69	0.55 0.55									p70 p70	p70 <mark>p71</mark>		p71 <mark>p71</mark>			0.9 0.9 p71 p71
0.33µF		p69 p69		p69		p69	0.55 0.55 p69 p69 0.55 0.55 p69 p69												p71 <mark>p71</mark>			
0.47µF		p69 p69		p69		p69	0.55 p69 p69									p70	p70		p71 <mark>p71</mark>			0.9 <mark>0.9</mark> p71 p71
0.68µF		p69 p69					0.55 p69 p69												p71			0.9 0.9 <i>p71 p71</i>
1.0µF	p69		p69		p69						p69 p69	p69 p 69				p70 p70	p70	p71	p71			0.9 0.9 <i>p71 p71</i>
2.2µF		p69 p69		p69		p69	0.55 p69 p69													p71		0.9 0.9 p71 p71 0.9 0.9 p71 p71 0.9 0.9 p71 p71
4.7µF							0.6 p69 p69	0.6 0.6 p69 p69	p69											p72		0.95, 1 <i>p72</i>
10µF								0.7 p69		p69											p72	1 p72
22µF							1															
47µF																						
100µF																						
150µF							 															

<i>p00</i> ← Pa	art Num	nber Lis	st .	JIS:	R	В	El	A: X7	'R X	75	K7T	X7U	X6S	X6T	X5F	R X5	S						
L×\	N (mm)					1.6	×0.8										2.0×	1.25					
T ma	x. (mm)	0.9, 0.95, 1				0.9, 1				0.9, 0.95	1	0.	.7					0.	95				
Rated Voltag			16	1	0	6	.3		4	10	35	25	16	100	50	3	5			25			16
Cap. / To	C Code	X5R, B	X6S	Χ7Δ	X6S	Χ7Δ	X5R, B	X6S	X5R, B	X5R, B	X5R	X5R	X6S	X7R	X5R, B	X6S	X5R	X7R	R	X6S	X5R	В	X7R
	68pF																						
	100pF																						
	150pF																						
	220pF																						
	330pF																						
4	470pF																						
(680pF																						
10	000pF																						
15	500pF																						
22	200pF																						
33	300pF																						
4	700pF																						
68	800pF													p72									
100	000pF													p72									
120	000pF																						
150	000pF																						
180	000pF																						
220	000pF																				:		
270	000pF																						
330	000pF														p72								
390	000pF														i ! !		i ! !						
470	000pF																						
680	000pF																	p72	p72				
	0.1µF																	p72					
	.15µF	0.9 p71																					
0	.22µF	0.9 0.9 p71 p71																					
	.33µF	0.9 p71		0.9 p71						0.9 0.9 p71 p71					p72								p72
	.47µF			0.9 p71																		p72	
0	.68µF	0.9 0.9 p71 p71		0.9 p71 0.9 p71						0.9 p71 p71								p72				p72	p72
	1.0µF	0.9 0.9 p71 p 71	0.9 p71			0.9 p71						p72	p72		p72 p72			p72				p72	
	2.2µF	0.9 0.9 p71 p71	0.9 p71	0.9 0.9 p71 p71	0.9 p71	0.9 p71				0.9 0.9 p71 p71					p72 p72	p72				p72	p72	p72	p72
	4.7µF	0.95 0.95 p72 p72						0.9 p72			p72						p72				p72		
	10µF	1 p72	1 p72	1 p72	1 p72	1 <i>p72</i>	0.9 0.9 p72 p72	0.9 p72	0.9 0.9 p72 p72	0.95 p72											p72	p72	
	22µF						1 1 p72 p72	1 p72	1 1 p72 p72														
	47µF																						
	100µF																						
	150µF																						

(→ ■ GRM Series High Dielectric Constant Type)

p00 ← Part Num	nber Li	st .	JIS:	R	В	EI	A: X7	'R X	78	K7T	X7U	X6S	X6T	X5F	R X5	S						
L×W (mm)											2.0×	1.25										
T max. (mm)						0.	95						0.95, 1	-	1				1.35			
Rated Voltage (Vdc)		1	6			10			6.3		4	1	50	250	100	100	5	0		25		16
Cap. / TC Code	R	X6S	X5R	В	Χ7Δ	X5R	В	X6S	X5R	В	X6S	X5R	X7R, R	X7R	X7R	X7R	X7R, R	X5R, B	X7R, R	X6S	X5R, B	X7R
68pF																						
100pF																						
150pF																						
220pF																						
330pF																						
470pF																						
680pF																						
1000pF														p143								
1500pF														p143								
2200pF														p143								
3300pF									!					p143				!				
4700pF														p143								
6800pF														p143								
10000pF													0.95 <i>p7</i> 2			p73						
12000pF																						
15000pF													0.95 <i>p7</i> 2			p73						
18000pF																						
22000pF													1 <i>p7</i> 3			p73						
27000pF																						
33000pF					i ! !		i !						0.95 <mark>0.95</mark> p72 <mark>p72</mark>			p73						
39000pF																						
47000pF																p73	p73 <mark>p73</mark>	p73				
68000pF																p73	p73 <mark>p73</mark>	p73				
0.1µF																p73	p73 <mark>p73</mark>	p73	p73 <mark>p73</mark>			
0.15µF																	p73	p73	p73 <mark>p73</mark>		p73	
0.22µF															p73		p73	p73			p73	
0.33μF													0.95 <i>p7</i> 2		p73						p73	
0.47µF																	p73	p73				
0.68µF	p72			p72					!									p73	p73			
1.0µF																	p73	p73 p73				
2.2µF					p72																p73 p73	
4.7μF		p72	p72	p72	p72															p73	p73 p73	
10µF			p72	p72				p72			p73											
22µF						p72	p72		p72	p72												
47µF												p73										
100µF																						
150µF																		!				

muRata

p00 ← Part Num	ıber Li	st J	IIS:	R	В	EI	A: X7	7R X	78	X7T	X7U	X6S	X6T	X51	R X5	S						
L×W (mm)											2.0×	1.25										
T max. (mm)		1.3	35								1.4									1.45		
Rated Voltage (Vdc)	1	16	10	6.3	100	50	2	25	1	6	1	0		6.3		4	4	250	25	6.3	4	4
Cap. / TC Code	X6S	X5R, B	X6S	X6S	X7R	X5R, B	X7R, R	X5R, B	X7R	X6S	X7R	В	X7R	X6S	X5R, B	X7U	X6S	X7R	X5R	X5R, B	X6S	X5R, B
68pF																						
100pF																						
150pF																						
220pF																						
330pF																						
470pF																						
680pF																						
1000pF																						
1500pF																						
2200pF																						
3300pF																						
4700pF																						
6800pF																						
10000pF																		p143				
12000pF																						
15000pF																						
18000pF																						
22000pF																						
27000pF																						
33000pF																						
39000pF																						
47000pF																						
68000pF																						
0.1µF																						
0.15µF																						
0.22µF																						
0.33µF																						
0.47µF					p73	ĺ																
0.68µF																						
1.0µF							p73 <mark>p73</mark>	p73														
2.2µF		p73 p7 3				p73 p7 3																
4.7µF	p73	p73 p73				p73 p7 3			p73		p73											
10µF		p73 p73		p73				p73 p7 3		p73	p73		p73									
22µF												p73		p73	p73 p73	p74_	p74		p74			
47µF																				p74 p74	p74_	p74 p7 4
100µF					!		!		:					!						"		-
150µF																						
Ισομι		: -			!	:	!	:				!		!		!			:			

p00 ← Part Nu	mber Li	st .	JIS:	R	В	El	A: X7	'R X	75	X7T	X7U	X6S	X6T	X5F	R X5	is						
L×W (mm)										3.2	×1.6										
T max. (mm) 0	.7					0.	95								1.25				1.25	, 1.3	1.8
Rated Voltage (Vdc) 25	16	100	50	35	2	5	1	6	10	6	.3	1000	630	250	5	0	1	6	100	25	630
Cap. / TC Code	e X5R, B	X6S	X7R	X7R	X5R	X7R, R	В	X6S	X5R, B	X5R, B	X6S	X5R, B	X7R	X7R	X7R	X7R, R	В	X6S	В	X7R	X5R, B	X7R
68pF																						
100pF	:																					
150pF					!									!		!						
220pF																						
330pF																						
470pF													p144			!						
680pF													p144									
1000pF													p144	p144								
1500pF													p144	p144								
2200pF													p144	p144								
3300pF													p144	p144								
4700pF					!								p144	p144		!						
6800pF														p144								
10000pF														p144								
12000pF					-									-								
15000pF			p74												p143							p144
18000pF	:																					
22000pF															p143					1.25 <i>p74</i>		
27000pF																						
33000pF																				1.25 <i>p74</i>		
39000pF					i ! !																	
47000pF																				1.25 p74		
68000pF															p143					1.25 p74		
0.1μF			p74		i ! !									i ! !								
0.15μF																p74 <mark>p74</mark>	p74			1.25 p74 1.25 p74		
0.22μF																p74 <mark>p74</mark>	p74			1.25 <i>p74</i>	1.25 p74	
0.33μF				p74		p74 <mark>p74</mark>	p74															
0.47μF									p74							p74				1.3 <i>p74</i>		
0.68µF							p74									p74			p74	1.3 <i>p74</i>		
1.0µF																p74	p74					
	p74 p74	p74																			1.3 p74	
4.7μF								p74														
10μF					p74				p74 p7 4							!		p74			1.25 p74	
22µF										p74 p74	p74	p74 p74										
47μF	_																					
100μF																						
150µF					<u> </u>									<u> </u>		!						

p00 ← Part Num	ber Lis	st .	JIS:	R	В	El	A: X7	'R X	75	K7T	X7U	X6S	X6T	X5F	R X5	SS						
L×W (mm)									;	3.2×1.0	ŝ									(3.2×2.5	5
T max. (mm)							1.8									1.8, 1.9	9		1.9		1	
Rated Voltage (Vdc)	250	5	0		25			16			10		6.3	100	6	.3		4	4	6.3	4	4
Cap. / TC Code	X7R	X7R	X5R, B	X7R	X6S	X5R, B	X7R, R	X6S	X5R, B	X7R	X6S	X5R, B	Χ7Δ	X7R	Х6∆	X5R, B	X7U	Х6Δ	X5R	X5S	X6T	X5S
68pF																						
100pF																						
150pF																						
220pF																						
330pF																						
470pF																						
680pF																						
1000pF																						
1500pF																						
2200pF																						
3300pF																						
4700pF																						
6800pF																						
10000pF																						
12000pF																						
15000pF																						
18000pF																						
22000pF																						
27000pF					1									!								
33000pF	p143																					
39000pF																						
47000pF	p143																					
68000pF																						
0.1µF	p143																					
0.15µF														i ! !								
0.22μF																						
0.33μF																						
0.47μF					-																	
0.68µF					1									!								
1.0µF														1.8 <i>p74</i>								
2.2µF		p74	p74 p74											1.8 <i>p74</i> 1.9 <i>p74</i>								
4.7μF		p74	p74	p74			p74 <mark>p74</mark>															
10µF				p74	p74	p74 p74			p74 p74													
22µF						p74 p74		p74	p74 p74	p74	p74	p74 p74	p74		1.8 <i>p74</i>							
47µF												p74 p7 4	p74		1.8 p74	1.8 p74 p74	1.8 <i>p74</i>	1.8 p74				
100µF															1.8 p74 1.9 p74	1.9 <i>p74</i>	1.9 <i>p74</i>	1.8 p74 1.9 p74	p74			
150µF																				p75	p75	p75

p00 ← Part Nur	nber Li	st .	JIS:	R	В	EI	A: X7	'R X	7S 2	X7T	X7U	X6S	X6T	X5F	R X5	S						
L×W (mm)											3.2>	×2.5										
T max. (mm)	1			1	.5			1.8		2		2	.2					2.7				
Rated Voltage (Vdc)	2.5	1000	630	250	5	0	10	100	1000	630	250	2	5	100	5	0	3	35		25		16
Cap. / TC Code	X6T	X7R	X7R	X7R	X7R	В	X6S	X7R	X7R	X7R	X7R	X7R	X6S	X7R	X7R	X5R, B	X7R	X5R, B	X7R	X6S	X5R, B	X7R
68pF																						
100pF																						
150pF																						
220pF																						
330pF																						
470pF																						
680pF																						
1000pF																						
1500pF																						
2200pF																						
3300pF																						
4700pF																						
6800pF		p144																				
10000pF		p144																				
12000pF																						
15000pF							!		p144							!						
18000pF																						
22000pF			p144						p144													
27000pF							!									!						
33000pF										p144												
39000pF																						
47000pF										p144												
68000pF				p143																		
0.1µF											p143											
0.15μF				p143																		
0.22µF											p143											
0.33µF																						
0.47µF																						
0.68µF					p75	p75		p75														
1.0µF	-						i ! !	p75								i ! !						
2.2µF	-						!							p75								
4.7µF	-														p75	p75						
10μF												p75	p75		p75	p75 p75	p75	p75 p75				
22µF	-						p75												p75	p75	p75 p7 5	p75
47μF	-																					
100µF																						
150µF	p75																	<u> </u>				

Cap. / TC Code Cap.	p00 ← Part Nun	nber Li	st .	JIS:	R	В	EI	A: X7	'R X	7S)	X7T	X7U	X6S	X6T	X5F	R X5	is		
Rated Voltage Vide) Cap. / TC Code X6S X5R, B X7R X6S X5R, B X7∆ X6S X5R, B X7∪ X6S X5R,	L×W (mm)					3.2>	<2.5							4.5×3.2	2			5.7×5.0)
Rated Voltage (Vide) Cap. / TC Code X6S												1							
68pF 100pF 150pF 220pF 330pF 470pF 68ppF 150opF 220pF 330pF 470pF 68ppF 470pF 68ppF 470pF 68ppF 470ppF	Rated Voltage (Vdc)		6		10			6.3		4	4	630	250	1000	630	250	1000	630	25
100pF 150pF 220pF 330pF 470pF 680pF 1500pF 220pF 3300pF 470pp 680pF 1500pF 150	Cap. / TC Code	X6S	X5R, B	X7R	X6S	X5R, B	Χ7Δ	X6S	X5R, B	X7U	X6S	X7R	X7R	X7R	X7R	X7R	X7R	X7R	X71
150pF 220pF 330pF 470pF 680pF 1000pF 1500pF 2200pF 3300pF 4700pF 6800pF 10000pF 12000pF 18000pF 18000pF 10000pF 10000p	68pF																		
220pF 330pF 470pF 680pF 1000pF 1500pF 2200pF 3300pF 4700pF 6800pF 10000pF 1000	100pF																		
330pF 470pF 680pF 11500pF 12200pF 3300pF 4700pF 680pF 12000pF 118000pF 12000pF 12000pF 12000pF 12000pF 13000pF 1000pF 100	150pF																		
470pF 680pF 1000pF 1500pF 2200pF 33300pF 47000pF 15000pF 1	220pF																		
680pF 1000pF 1500pF 2200pF 33300pF 4700pF 6800pF 11000pF 112000pF 12200pF 12	330pF																		
1000pF 1500pF 2200pF 3300pF 4700pF 6800pF 11000pF 112000pF 112000p	470pF																		
1500pF 2200pF 3300pF 4700pF 6800pF 10000pF 15000pF 18000pF 22000pF 27000pF 33000pF 33000pF 47000pF 4700pF 47	680pF																		
2200pF 3300pF 4700pF 6800pF 10000pF 112000pF 118000pF 22000pF 22000pF 27000pF 33000pF 47000pF 0.1pF 0.1pF 0.1spF 0.2spF 0.2spF 1.0or 0.47pF 0.68pF 1.0or 0.47pF 1.0or 0.68pF 1.0or 0.47pF 1.0or 0.68pF 1.0or 0.47pF 1.0or 0.68pF 1.0or 0.7spF 0.68pF 1.0or 0.68pF 1.0or 0.7spF 0.68pF 1.0or 0.7spF 0.68pF 1.0or 0.7spF 0.68pF 0.7spF	1000pF																		
3300pF 4700pF 6800pF 10000pF 12000pF 15000pF 15000pF 18000pF 22000pF 27000pF 33000pF 47000pF	1500pF																		
4700pF 6800pF 10000pF 12000pF 15000pF 15000pF 18000pF 22000pF 22000pF 27000pF 33000pF 30000pF	2200pF																		
4700pF 6800pF 10000pF 12000pF 15000pF 15000pF 18000pF 22000pF 22000pF 27000pF 33000pF 30000pF	3300pF																		
6800pF 10000pF 12000pF 12000pF 15000pF 15000pF																			
10000pF 12000pF 15000pF 15000																			
12000pF 15000pF 18000pF 22000pF 27000pF 33000pF 33000pF 47000pF 68000pF 0.1µF 0.1µF 0.15µF 0.22µF 0.23µF 1.0µF 1.0																			
15000pF 18000pF 22000pF 27000pF 33000pF 33000pF 47000pF 68000pF 0.1µF 0.1µF 0.15µF 0.22µF 0.03µF 1.0µF																			
18000F 22000F 27000F 33000F 33000F 33000F 47000F 68000F 0.15µF 0.15µF 0.22µF 1.0µF 1																			
22000pF 27000pF 33000pF 33000pF 47000pF 68000pF 0.1pF 0.15pF 0.22pF 0.33yF 0.47pF 1.0pF 2.22pF 4.7pF 1.0pF 22pF 4.7pF 4																			
27000pF 33000pF 33000pF 34700pF 47000pF 470000pF 4700000pF 4700000pF 4700000pF 4700000pF 4700000pF 4700000pF 470000000pF 470000000pF 47000000000000000000000000000000000000																			
33000pF																			
39000pF														p144					
47000pF																			
68000pF														p144					
0.1 μF												p144	İ				p144		
0.15μF 0.22μF 0.33μF 0.47μF 0.68μF 1.0μF 2.2μF 4.7μF 10μF 22μF 47μF 22μF 47μF 22μF 47μF 275 p75 p75 p75 p75 p75 p75 p75 p75 p75 p															p144				
0.22µF 0.33µF 0.47µF 0.68µF 1.0µF 2.2µF 4.7µF 10µF 22µF 22µF 47µF 22µF 47µF 275 775 775 775 775 775 775 775 775 775													p143	İ				p144	ĺ
0.33μF 0.47μF 0.68μF 1.0μF 2.2μF 4.7μF 10μF 22μF 75 p75 p75 p75 p75 p75 p75 p75 p75 p75 p																p1 <u>44</u>			
0.47μF 0.68μF 1.0μF 2.2μF 4.7μF 10μF 22μF 47μF p75 p75 p75 p75 p75 p75 p75 p75																			p14
0.68μF 1.0μF 2.2μF 4.7μF 10μF 22μF 47μF 22μF 47μF 275 ρ75 ρ75 ρ75 ρ75 ρ75 ρ75 ρ75 ρ75 ρ75 ρ																			p14
1.0μF 2.2μF 4.7μF 10μF 22μF 47μF p75 p75 p75 p75 p75 p75 p75 p75 p75 p75																			p14
2.2μF 4.7μF 10μF 22μF ρ75 47μF ρ75 ρ75 ρ75 ρ75 ρ75 ρ75 ρ75 ρ75 ρ75 ρ75																			
4.7μF 10μF 22μF μ75 47μF μ75 μ75 μ75 μ75 μ75 μ75 μ75																			
10μF 22μF																			
22μF																			
47μF ρ75 ρ75 ρ75 ρ75 ρ75 ρ75 ρ75 ρ75 ρ75 ρ75			p75																
100μF p75 p75 p75 p75 p75 p75 p75		pZ5		p75.	pZ5_	p75 p75	p75	pZ5_	i										
		,,,,,	1070	, , , ,	,,,,	270			p75.p75	ב75	p75								
	150μF						<i>101</i>	μ.υ	7.0	μ.σ.	ρ.υ								

470pF	p00 ← Part Num	ber Lis	st .	JIS:	R	В	EI	A : X7	R X	5R													
T max. (mm) Rated Voltage (Vdc) 16 10 4 16 10 4 16 10 16 10 16 10 16 10 16 10 16 16 16 16 16 16 16 16 16 16 16 16 16	Number of Elements											2	2										
Rated Voltage (Vdc)	L×W (mm)			0.9	×0.6										1.37	×1.0							
Cap. / TC Code X5R B X5R B X5R B X5R B X7R R X5R B X5R B X7R R X5R B X5R B X7R R X5R B X5R B X7R R X5R B X5R B X7R R X5R B X5R B X7R R X5R B X5R B X7R R X5R B X5R B X7R R X5R B X5R B X7R R X5R B X5R B X7R R X5R B X5R B X7R R X5R B X5R B X7R R X5R B X5R B X7R R X5R B X5R B X7R R X5R B X5R B X7R R X5R B X7R R X5R B X5R B X7R R X5R B X5R B X X	T max. (mm)			0	.5					0.9	55							0.	.7				
470pF 1000pF 100	Rated Voltage (Vdc)	1	6	1	0	4	1		1	6		1	0		5	0			2	5		1	6
1000pF	Cap. / TC Code	X5R	В	X5R	В	X5R	В	X7R	R	X5R	В	X5R	В	X7R	R	X5R	В	X7R	R	X5R	В	X7R	R
2200pF	470pF																						
4700pF	1000pF													p77	p77	p77	p77						
10000pF p77 p77 p77 p77 p77 p77 p77 p77 p77 p	2200pF																	p77	p77	p77	p77		
22000pF p77 p77 p77 p77 p77 p77 p77 p77 p77 p	4700pF																	p77	p77	p77	p77		
47000pF p77 p77 p77 p77 p77 p77 p77 p77 p77 p	10000pF	p77	p77	p77	p77													p77	p77	p77	p77		
0.1μF p77 p77 p77 p77 p77 p77 p77 p77 p77 p7	22000pF	p77	p77	p77	p77																	p77	p77
	47000pF	p77	p77	p77	p77																	p77	p77
	0.1µF	p77	p77	p77	p77			p77	p77		p77											p77	p77
0.22μF	0.22µF																						
0.47µF	0.47µF																						
1.0μF p77 p77 p77 p77 p77	1.0µF					p77	p77			p77		p77	p77										
2.2µF	2.2µF																						

Number of Elements						2	2										4	4				
L×W (mm)						1.37	×1.0										2.0×	1.25				
T max. (mm)			0.	.7					0.	.8						0.55					0.7	
Rated Voltage (Vdc)	1	6		1	0		1	6	1	0	6.	.3		16		1	0	6.	3		50	
Cap. / TC Code	X5R	В	X7R	R	X5R	В	X5R	В	X5R	В	X5R	В	X7R	R	В	X5R	В	X5R	В	X7R	R	В
470pF																				p77		p77
1000pF																				p77	p77	p77
2200pF					i ! !																	
4700pF					!																	
10000pF																						
22000pF	p77	p77	p77	p77	p77	p77			:													
47000pF	p77	p77	p77	p77	p77	p77																
0.1µF		p77			p77	p77							p77	p77	p77							
0.22µF							p77			p77						p77	p77	p77	p77			
0.47µF										p77												
1.0µF							p77	p77	p77	p77						p77	p77	p77	p77			
2.2µF									p77	p77	p77	p77										

Number of Elements					4	1				
L×W (mm)					2.0×	1.25				
T max. (mm)		0.7					0.95			
Rated Voltage (Vdc)		25			16		1	0	6.	.3
Cap. / TC Code	X7R	R	В	X7R	R	В	X5R	В	X5R	В
470pF										
1000pF										
2200pF	p77	p77	p77							
4700pF	p77	p77	p77							
10000pF	p77	p77	p78							
22000pF				p78	p78	p78				
47000pF				p78	p78	p78				
0.1µF				p78	p78	p78				
0.22µF										
0.47µF										
1.0µF							p78	p78	p78	p78
2.2µF										

■ LLL Series High Dielectric Constant Type

p00 ← Part Num	ber Lis	st E	EIA: X	(7R	X7S	X6S	X5R															
L×W (mm)	0.5>	<1.0					0.8	×1.6									1.25	×2.0				
T max. (mm)	0.:	35		0	.5		0.55			0.6					0.	.5				0.7		0.95
Rated Voltage (Vdc)	6.3	4	25	16	10	4	4	50	25	16	10	4	50	25	16	10	6.3	4	50	25	10	16
Cap. / TC Code	X6S	X7S	X7R	X7R	X7R	X7S	X7S	X7R	X7R	X7R	X7R	X7S	X7R	X7R	X7R	X7R	X7R	X7S	X7R	X7R	X7R	X7R
2200pF								p80														
4700pF								p80														
10000pF			p80						p80				p80						p80			
22000pF				p80					p80					p80					p80			
47000pF				p80						p80					p80					p80		
0.1µF	p80				p80						p80				p80					p80		
0.22µF	p80					p80					p80					p80					p80	p80
0.47µF		p80										p80					p80					
1.0µF							p80											p80				
2.2µF							p80															
4.7µF																						
10µF																						

L×W (mm)	1.25	×2.0								1.6×3.2	2						
T max. (mm)	0.9	95		0	.5				0.8					1.	25		
Rated Voltage (Vdc)	10	4	50	25	16	10	50	25	16	10	6.3	50	25	16	10	6	.3
Cap. / TC Code	X7R	X7S	X7R	X7R	X7R	X7R	X7R	X7R	X7R	X7R	X7R	X7R	X7R	X7R	X7R	X7R	X5R
2200pF																	
4700pF																	
10000pF			p80		 - -		p80										
22000pF			p80				p80										
47000pF				p80			p80										
0.1µF				p80				p80				p80					
0.22µF					p80				p80				p80				
0.47µF	p80					p80			p80				p80				
1.0µF	p80									p80				p80			
2.2µF		p80									p80				p80		
4.7µF																p80	
10μF														i ! !			p80

p00 ← Part Num	ber Lis	st E	IA: X	(7S
L×W (mm)		0.8	<1.6	
T max. (mm)		0.	55	
Rated Voltage (Vdc)		4	1	
TC Code		X	7S	
Cap. / ESR (mΩ)	100	220	470	1000
1.0µF	p80	p80	p80	p80



■ LLA Series High Dielectric Constant Type

p00 ← Part Num	ber Lis	st E	IA: X	7R	X7S													
L×W (mm)	1.6× 0.8					2.0×	1.25							;	3.2×1.6	6		
T max. (mm)	0.55			0.55					0.95				0.55		0.	95	1.3	25
Rated Voltage (Vdc)	4	25	16	10	6.3	4	25	16	10	6.3	4	16	10	6.3	16	10	16	10
Cap. / TC Code	X7S	X7R	X7R	X7R	X7R	X7S	X7R	X7R	X7R	X7R	X7S	X7R	X7R	X7R	X7R	X7R	X7R	X7R
10000pF		p81					p81											
22000pF		p81					p81											
47000pF			p81				p81											
0.1µF	p81		p81					p81										
0.22µF	p81			p81				p81				p81						
0.47µF	p81				p81				p81				p81		p81			
1.0µF	p81					p81				p81				p81		p81	p81	
2.2µF	p81					p81					p81			p81				p81
4.7µF						p81					p81							

p00 ← Part Num	ber Lis	st E	IA: X	7R	X7S		
L×W (mm)		2.0×	1.25		;	3.2×1.6	6
T max. (mm)		0.	55			0.55	
Rated Voltage (Vdc)	25	16	6.3	4	16	10	6.3
Cap. / TC Code	X7R	X7R	X7R	X7S	X7R	X7R	X7R
10000pF	p81						
22000pF	p81						
47000pF		p81					
0.1µF		p81			p81		
0.22µF			p81		p81		
0.47µF			p81			p81	
1.0µF				p81			
2.2µF				p81			p81



■ GJM Series Temperature Compensating Type



The indication for every 0.1 pF has been omitted for less than 10 pF.
Refer to the Part Number List for details.



■ GQM Series Temperature Compensating Type



The indication for every 0.1 pF has been omitted for less than 10 pF.
Refer to the Part Number List for details.



p00 ← Part Num	ber Lis	st .	JIS:	R	В	EI	A: X7	'R X	5R									
L×W (mm)	0.38	<0.38				0.5	×0.5							0.8>	<0.8			
T max. (mm)	0.:	35				0	.4							0.	.6			
Rated Voltage (Vdc)	1	0	100	2	5		10		6.	.3	100	2	5		10		6.	.3
Cap. / TC Code	X7R	R	X7R	X7R	В	X7R	R	В	X5R	В	X7R	X7R	В	X7R	R	В	X5R	В
100pF			p114															
150pF			p114															
220pF			p114															
330pF			p114															
470pF			p114															
680pF			p114															
1000pF			p114															
1500pF				p114	p114						p114							
2200pF				p114	p114						p114							
3300pF				p114	p114						p114							
4700pF				p114	p114						p114							
6800pF						p114	p114	p114			p114							
10000pF	p114	p114				p114	p114	p114				p114	p114					
15000pF						p114	p114	p114				p114	p114					
22000pF						p114	p114	p114				p114	p114			i ! !		
33000pF														p114	p114	p114		
47000pF														p114	p114	p114		
68000pF														p114	p114	p114		
0.1µF									p114	p114				p114	p114	p114		!
0.47µF																	p114	p114



Trax. (mm)	p00 ← Part Num	ber Lis	st .	JIS:	R	В	El	A: X7	'R X	5R													
Related Voltage (Vido) 25	L×W (mm)					(0.6×0.3	3										1.0×0.5	5				
Cap./TC Code	T max. (mm)						0.33											0.55					
100pF pi10 pi16 pi16	Rated Voltage (Vdc)		25			16			10		6.	3		50			25			16		10	0
120pF 110 11	Cap. / TC Code	X7R	R	В	X7R	R	В	X7R	R	В	X5R	В	X7R	R	В	X7R	R	В	X7R	R	В	X5R	В
150pF p116 p16 p	100pF	p116	p116	p116																			
180pF 116 11	120pF	p116	p116	p116																			
2200pF 116 216 216 216 216 216 217 2	150pF	p116	p116	p116																			
270pF 116 21	180pF	p116	p116	p116																			
270pF 116 216 216 15 216 15 216 15 216 15 216 15 216 2	220pF	p116	p116	p116									p116	p116	p117								
3300F 116 117 11	270pF	p116	p116	p116									p116	p117	p117								
3300F 116 117 11	330pF	p116	p116	p116									p116	p117	p117								
470pF 116 21		p116	p116	p116									p116	p117	p117								
Seope Pite													p116	p117	p117								
Secord Parts Date													_	-			 						
820pF p116 p116 p116 p116 p116 p116 p116 p1						!								-									
1000PF 110 216 216 216 216 216 216 216 217 2													_	-									
1200pF 116 1														-									
1500pF p116 p117														-									
1800pf														-									
2200pF			<i>p</i>	,	p116	p116	p116							-									
2700pF														-									
3300pF	-													-									
3900pF	-					-								-									
A700F P116 P116 P116 P116 P116 P116 P116 P1					PITO	prio	piio	n116	n116	n116				-									
Description of the part of t						!								-									
B800PF P116 P116 P116 P116 P116 P116 P117													PITO	PIII	piii	n117	n117	n117					
8200pF p116 p116 p116 p116 p117 p117 p117 p117 p117 p117 p117									_	-													
Delta place Delta place									-	-													
12000pF										-													
15000pF 18000pF 22000pF 22000pF 27000pF							ριιο	ртто	ριιο														
18000F																							
22000pF 27000pF																							
27000pF	-					!											-	-					
33000pF	-																						
39000pF																							
47000pF																							
Description Description																							
P116 P116 P117																p117	p117	p117					
82000pF																							
0.1μF						!									<u> </u>								
0.12μF																							
0.15μF 0.18μF 0.18μF						!				!	p116	p116			!				p117	p117			
0.18µF																							
	-																						
0.22µF p117																							
						!									!								
0.27µF p117																							
0.33µF p117																							
0.39µF p117 p117																							
0.47μF p117	0.47µF																					p117	p117



■ GRJ Series High Dielectric Constant Type

p00 ← Part Num	ber Lis	st E	EIA: X	K7R																		
L×W (mm)	2.0×	1.25			3.2	×1.6					3.2	×2.5					4.5×3.2	2		5	5.7×5.0)
T max. (mm)	1	1.45		1.25			1.8			1.5			2		1	.5		2			2	
Rated Voltage (Vdc)	250	250	1000	630	250	1000	630	250	1000	630	250	1000	630	250	630	250	1000	630	250	1000	630	250
Cap. / TC Code	X7R	X7R	X7R	X7R	X7R	X7R	X7R	X7R	X7R	X7R	X7R	X7R	X7R	X7R	X7R	X7R	X7R	X7R	X7R	X7R	X7R	X7R
470pF			p149																			
680pF			p149																			
1000pF	p148		p149	p149																		
1500pF	p148		p149	p149																		
2200pF	p148		p149	p149																		
3300pF	p148		p149	p149																		
4700pF	p148		p149	p149																		
6800pF	p148			p149		p149			p149													
10000pF		p148		p149		p149			p149													
15000pF		p148			p148		p149					p149										
22000pF		p148			p148		p149			p149		p149										
33000pF								p148					p149				p149					
47000pF								p148					p149				p149					
68000pF					p148						p148				p149					p149		
0.1µF								p148						p148				p149		p149		
0.15µF											p148					p148					p149	
0.22µF														p148					p148		p149	
0.33µF																			p148			p148
0.47µF																			p148			p148
0.68µF					1									1		! ! !						p148
1.0µF																						p148

p00 ← Part Num	ber L	ist	EIA:	X7T																					
L×W (mm)	2.0×	1.25				3.2	×1.6					3	3.2×2.	5			4.5>	<3.2				5.7	×5.0		
T max. (mm)	1	1.45		1		1.25			1.8		1	.5		2		1.5		2			2			2.7	
Rated Voltage (Vdc)	250	250	450	250	630	450	250	630	450	250	630	250	630	450	250	250	630	450	250	630	450	250	630	450	250
Cap. / TC Code	X7T	X7T	X7T	X7T	X7T	X7T	X7T	X7T	X7T	X7T	X7T	X7T	X7T	X7T	X7T	X7T	X7T	X7T	X7T	X7T	X7T	X7T	X7T	X7T	X7T
10000pF	p153		p153		p154																				
15000pF	p153		p153					p154																	
22000pF		p153				p153					p154														-
33000pF				p153		p153							p154												
47000pF							p153		p153				p154												
68000pF										p153				p153			p154								-
0.1µF												p153		p153						p154					
0.15µF															p153			p153		p154					
0.22µF																p153					p153		p154		
0.27µF																							p154		
0.33µF																			p153		p153				
0.47µF																					p153	p153			
0.56µF																								p153	
0.68µF																						p153			
1.0µF																									p153

■ GRM/DC3.15kV Series High Dielectric Constant Type ■ GR7 Series

EIA: COG

p00 ← Part Number List L×W (mm) 4.5× 2.0 T max. (mm) 1 Rated Voltage (Vdc) 3150 Cap. / TC Code C0G 5.0pF 10pF 12pF 15pF 18pF 22pF 27pF 33pF 39pF p158 47pF *p158*

Part Number List Murata Temperature Characteristic: ———————————————————————————————————								
L×W (mm)	2.0×	1.25	;	3.2×1.6	6			
T max. (mm)	1	1.45	1	1.25	1.8			
Rated Voltage (Vdc)	350	350	350	350	350			
Cap. / TC Code	-	-	-	-	-			
10000pF	p165		p165					
15000pF	p165		p165					
22000pF		p165	p165	p165				
27000pF		p165	p165					
33000pF			p165	p165				
47000pF					p165			

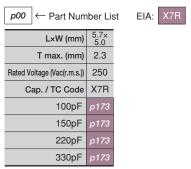
■ GA2 Series High Dielectric Constant Type

p00 ← Part Num	nber Lis	st E	EIA: X	(7R
L×W (mm)	4.5× 2.0	4.5	×3.2	5.7× 5.0
T max. (mm)	1.5	1.5	2	2
Rated Voltage (Vac(r.m.s.))	250	250	250	250
Cap. / TC Code	X7R	X7R	X7R	X7R
470pF	p169			
1000pF	p169			
2200pF		p169		
3300pF		p169		
4700pF			p169	
10000pF		p169		
22000pF		p169		
47000pF			p169	
0.1µF				p169

p00 ← Part Num	ber Lis	st E	IA: X	77R
L×W (mm)	4.5× 2.0	4.5>	<3.2	5.7× 5.0
T max. (mm)	1.5	1.5	2	2
Rated Voltage (Vdc)	2000	2000	2000	2000
Cap. / TC Code	X7R	X7R	X7R	X7R
100pF	p161			
120pF	p161			
150pF	p161			
180pF	p161			
220pF	p161			
270pF	p161			
330pF	p161			
390pF	p161			
470pF	p161			
560pF	p161			
680pF	p161			
820pF	p161			
1000pF	p161			
1200pF	p161			
1500pF	p161			
1800pF		p161		
2200pF		p161		
2700pF		p161		
3300pF		p161		
3900pF		p161		
4700pF			p161	
10000pF				p161



■ GA3 Series UL, IEC60384-14 Class X1/Y2 Type GC High Dielectric Constant Type



■ GA3 Series IEC60384-14 Class Y2, X1/Y2 Type GF

p00 ← Part Num	nber Lis	st .	JIS:	SL	EIA	X7F	3
L×W (mm)		4.5	<2.0	5.7× 2.8	5.7>	<5.0	
T max. (mm)	1	1.5	2.	.2	1.5	1.5	2
Rated Voltage (Vac(r.m.s.))	250	250	250	250	250	250	250
Cap. / TC Code	SL	X7R	SL	X7R	X7R	X7R	X7R
10pF			p174				
12pF			p174				
15pF			p174				
18pF			p174				
22pF			p174				
27pF	p174						
33pF	p174						
39pF	p174						
47pF	p174						
56pF	p174						
68pF	p174						
82pF	p174						
100pF		p174					
150pF		p174					
220pF				p174			
330pF				p174			
470pF		p174			p174		
680pF		p174			p174		
1000pF				p174	p174		
1500pF					p175		
1800pF						p175	
2200pF						p175	
3300pF						p175	
4700pF							p175

■ GA3 Series IEC60384-14 Class Y3 Type GD

p00 ← Part Num	ber Lis	st .	JIS:	SL	EIA	: X7R
L×W (mm)	4	4.5×2.0)	4.5>		
T max. (mm)	1	1.5	2.2	1.5	2	
Rated Voltage (Vac(r.m.s.))	250	250	250	250	250	
Cap. / TC Code	SL	X7R	SL	X7R	X7R	
10pF			p176			
12pF			p176			
15pF			p176			
18pF			p176			
22pF			p176			
27pF	p176					
33pF	p176					
39pF	p176					
47pF	p176					
56pF	p176					
68pF	p176					
82pF	p176					
100pF		p176				
150pF		p176				
220pF		p176				
330pF		p176				
470pF		p176				
680pF		p176				
1000pF		p176				
1500pF		p176				
1800pF				p176		
2200pF				p176		
4700pF					p176	

■ GA3 Series IEC60384-14 Class X2 Type GB High Dielectric Constant Type

p00 ← Part Number List EIA: X7R						
L×W (mm)		5.7>	<5.0			
T max. (mm)	1.5	2	2.5	2.9		
Rated Voltage (Vac(r.m.s.))	250	250	250	250		
Cap. / TC Code	X7R	X7R	X7R	X7R		
10000pF	p177					
15000pF	p177					
22000pF		p177				
33000pF			p177			
47000pF			p177			
56000pF				p177		



■ KRM Series High Dielectric Constant Type

p00 ← Part Num	ber Lis	st E	EIA: X	(7R	X6S	X5R														
L×W (mm)		3.5>	×1.7		3.6× 1.7	3.7× 1.7						6	6.1×5.3	3						
T max. (mm)	2		2.9		2.9	2.9		(3			3.	.9		į	5		6	.7	
Rated Voltage (Vdc)	25	100	50	25	50	100	100	63	50	25	100	63	50	25	100	25	100	63	50	25
Cap. / TC Code	X5R	X7R	X7R	X6S	X7R	X7R	X7R	X7R	X7R	X7R	X7R	X7R	X7R	X7R	X7R	X7R	X7R	X7R	X7R	X7R
1.0µF		p200																		
2.2µF					p200	p200														
4.7µF			p200				p200	p200	p200											
6.8µF											p200									
10µF	p200			p200								p200	p200		p200					
15µF										p200							p200			
22µF														p200				p200	p200	
33µF																p200				
47µF																				p200

p00 ← Part Num	p00 ← Part Number List EIA: X7T									
L×W (mm)					6.1>	<5.3				
T max. (mm)		3			3.9		5		6.7	
Rated Voltage (Vdc)	630	450	250	630	450	250	450	630	450	250
Cap. / TC Code	X7T	X7T	X7T	X7T	X7T	X7T	X7T	X7T	X7T	X7T
0.1µF	p204									
0.15µF	p204									
0.22µF		p204		p204						
0.27µF				p204						
0.47µF		p204	p204					p204		
0.56µF					p204			p204		
1.0µF						p204	p204			
1.2µF									p204	
2.2µF					! !					p204



Part Numbering

Chip Monolithic Ceramic Capacitors

GR M 18 8 B1 1H 102 K A01 D (Part Number)

Product ID

2Series

2 3eries							
Product ID	Code	Series					
	J	Soft Termination Type					
	М	Tin Plated Layer					
GR	3	Large Capacitance and High Allowable Ripple Current					
	4	Only for Information Devices					
	7	Only for Camera Flash Circuit					
GQ	М	High Frequency for Flow/Reflow Soldering					
GM	Α	Monolithic Microchip					
GIVI	D	For Bonding					
GN	М	Capacitor Array					
	L	Low ESL Type					
LL	R	Controlled ESR Low ESL Type					
LL	Α	8-termination Low ESL Type					
	М	10-termination Low ESL Type					
	М	High Frequency Low Loss Type					
GJ	4	Low Distortion Type					
	8	Low Acoustic Type					
	2	For AC250V (r.m.s.)					
GA	3	Safety Standard Certified Type					
GW	М	For Decoupling					

3Dimensions (LXW)

Code	Dimensions (L×W)	EIA
02	0.4×0.2mm	01005
03	0.6×0.3mm	0201
05	0.5×0.5mm	0202
08	0.8×0.8mm	0303
0D	0.38×0.38mm	015015
OM	0.9×0.6mm	0302
15	1.0×0.5mm	0402
18	1.6×0.8mm	0603
1M	1.37×1.0mm	0504
1U	0.6×1.0mm	02404
21	2.0×1.25mm	0805
22	2.8×2.8mm	1111
31	3.2×1.6mm	1206
32	3.2×2.5mm	1210
42	4.5×2.0mm	1808
43	4.5×3.2mm	1812
52	5.7×2.8mm	2211
55	5.7×5.0mm	2220

4 Dimension (T) (Except GNM)

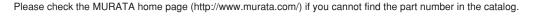
Code	Dimension (T)					
2	0.2mm					
3	0.3mm					
4	0.4mm					
5	0.5mm					
6	0.6mm					
7	0.7mm					
8	0.8mm					
9	0.85mm					
Α	1.0mm					
В	1.25mm					
С	1.6mm					
D	2.0mm					
E	2.5mm					
F	3.2mm					
М	1.15mm					
N	1.35mm					
Q	1.5mm					
R	1.8mm					
s	2.8mm					
Х	Depends on individual standards.					

4Elements (**GNM** Only)

Code	Elements
2	2-elements
4	4-elements

Continued on the following page.







Ontinued from the preceding page.

5Temperature Characteristics

	mperature cteristic Co		Ter	mperature Cha	racteristics	Operating	Capacitance Change Each Temperature (%)					
Code	Public STD Co		Reference Temperature	Temperature Range	Capacitance Change or Temperature	Temperature Range	–55°C Max. Min.		-25°C Max. Min.		-10 Max.	0°C Min.
0C	CHA	*2	20°C	20 to 150°C	Coefficient 0±60ppm/°C	–55 to 150°C	0.82	-0.45	0.49	-0.27	0.33	-0.18
1C	CG	JIS	20°C	20 to 130 C	0±30ppm/°C	-55 to 125°C	0.54	-0.43	0.49	-0.27	0.33	-0.18
1X	SL	JIS	20°C	20 to 85°C	+350 to -1000ppm/°C	-55 to 125°C	0.54	-0.23	0.33	-0.14	0.22	-0.08
2C				20 to 125°C	0±60ppm/°C	-55 to 125°C	0.82	-0.45	0.40	0.07	0.22	-0.18
2P	CH	JIS	20°C	20 to 85°C	-150±60ppm/°C	-25 to 85°C	- 0.02	-0.43	0.49	-0.27	0.33	0.10
	PH	JIS	20°C				-		1.32	0.41	0.88	-
2R	RH	JIS	20°C	20 to 85°C	-220±60ppm/°C	–25 to 85°C	-	-	1.7	0.72	1.13	0.48
2S	SH	JIS	20°C	20 to 85°C	-330±60ppm/°C	-25 to 85°C	-	-	2.3	1.22	1.54	0.81
2T	TH	JIS	20°C	20 to 85°C	-470±60ppm/°C	–25 to 85°C			3.07	1.85	2.05	1.23
3C	CJ	JIS	20°C	20 to 125°C	0±120ppm/°C	-55 to 125°C	1.37	-0.9	0.82	-0.54	0.55	-0.36
3P	PJ	JIS	20°C	20 to 85°C	-150±120ppm/°C	–25 to 85°C			1.65	0.14	1.1	0.09
3R	RJ	JIS	20°C	20 to 85°C	-220±120ppm/°C	–25 to 85°C	-	-	2.03	0.45	1.35	0.3
35	SJ	JIS	20°C	20 to 85°C	-330±120ppm/°C	–25 to 85°C	-	-	2.63	0.95	1.76	0.63
3Т	TJ	JIS	20°C	20 to 85°C	-470±120ppm/°C	–25 to 85°C	-	-	3.4	1.58	2.27	1.05
3U	UJ	JIS	20°C	20 to 85°C	-750±120ppm/°C	–25 to 85°C	-	-	4.94	2.84	3.29	1.89
4C	СК	JIS	20°C	20 to 125°C	0±250ppm/°C	–55 to 125°C	2.56	-1.88	1.54	-1.13	1.02	-0.75
4P	PK	JIS	20°C	20 to 85°C	-150±250ppm/°C	–25 to 85°C	-	-	2.36	-0.45	1.57	-0.3
4R	RK	JIS	20°C	20 to 85°C	-220±250ppm/°C	–25 to 85°C	-	-	2.74	-0.14	1.83	-0.09
4S	SK	JIS	20°C	20 to 85°C	-330±250ppm/°C	–25 to 85°C	-	-	3.35	0.36	2.23	0.24
4T	TK	JIS	20°C	20 to 85°C	-470±250ppm/°C	–25 to 85°C	-	-	4.12	0.99	2.74	0.66
4U	UK	JIS	20°C	20 to 85°C	-750±250ppm/°C	–25 to 85°C	-	-	5.65	2.25	3.77	1.5
5C	C0G	EIA	25°C	25 to 125°C	0±30ppm/°C	–55 to 125°C	0.58	-0.24	0.4	-0.17	0.25	-0.11
5G	X8G	*2	25°C	25 to 150°C	0±30ppm/°C	−55 to 150°C	0.58	-0.24	0.4	-0.17	0.25	-0.11
6C	C0H	EIA	25°C	25 to 125°C	0±60ppm/°C	−55 to 125°C	0.87	-0.48	0.59	-0.33	0.38	-0.21
6P	P2H	EIA	25°C	25 to 85°C	-150±60ppm/°C	−55 to 125°C	2.33	0.72	1.61	0.5	1.02	0.32
6R	R2H	EIA	25°C	25 to 85°C	-220±60ppm/°C	−55 to 125°C	3.02	1.28	2.08	0.88	1.32	0.56
6S	S2H	EIA	25°C	25 to 85°C	-330±60ppm/°C	−55 to 125°C	4.09	2.16	2.81	1.49	1.79	0.95
6T	T2H	EIA	25°C	25 to 85°C	-470±60ppm/°C	−55 to 125°C	5.46	3.28	3.75	2.26	2.39	1.44
7U	U2J	EIA	25°C	25 to 125°C *5	-750±120ppm/°C	−55 to 125°C	8.78	5.04	6.04	3.47	3.84	2.21
B1	B *1	JIS	20°C	−25 to 85°C	±10%	−25 to 85°C	-	-	-	-	-	-
В3	В	JIS	20°C	−25 to 85°C	±10%	−25 to 85°C	-	-	-	-	-	-
			−25 to 85°C	±20%		-	-	-	-	-	-	
C3	С	JIS	20°C	85 to 125°C	+15%, -30%	–25 to 125°C	-	-	-	-	-	-
C6	X5S	EIA	25°C	−55 to 85°C	±22%	–55 to 85°C	-	-	-	-	-	-
C 7	X7S	EIA	25°C	-55 to 125°C	±22%	–55 to 125°C	-	-	-	-	-	-
C8	X6S	EIA	25°C	-55 to 105°C	±22%	-55 to 105°C	-	-	_	-	-	-
D3	D	JIS	20°C	-25 to 125°C	+20%, -30%	–25 to 85°C	-	_	_	-	-	-
D6	X5T	EIA	25°C	-55 to 125°C	+22%, -33%	–55 to 125°C	_	_		_	_	-
D7	X7T	EIA	25°C	-55 to 125°C	+22%, -33%	-55 to 125°C	_	_			_	_
D8	X6T	EIA	25°C	-55 to 105°C	+22%, -33%	-55 to 105°C	_	_			_	_
E1	E (1/2Ur)	JIS	20°C	−25 to 85°C	+20%, -55%	–25 to 85°C	_				-	_
E4	, ,	EIA	25°C	10 to 85°C	+20%, -56%	10 to 85°C	_				_	-
	Z5U						-	-			-	-
E7	X7U	EIA	25°C	-55 to 125°C	+22%, -56%	–55 to 125°C		-			-	<u> </u>
F1	F *1	JIS	20°C	-25 to 85°C	+30%, -80%	-25 to 85°C	-	-			-	-
F4	Z5V	EIA	25°C	10 to 85°C	+22%, -82%	-20 to 85°C	-	-	-	-	-	
F5	Y5V	EIA	25°C	-30 to 85°C	+22%, -82%	-30 to 85°C	-	-	-	-	-	-
J1	JA	*2	20°C	–25 to 105°C	–20% max.	-25 to 105°C	-	-			-	_
L8	X8L	*2	25°C	–55 to 150°C	+15%, –40%	–55 to 150°C	-	-	-	-	-	-

^{*1} Capacitance change is specified with 50% rated voltage applied.

Continued on the following page.



^{*2} Murata Temperature Characteristic Code.

 $^{^{\}star}5$ Rated Voltage 100Vdc max: 25 to 85°C

Continued from the preceding page.

Temperature Characteristic Codes Cod			Capacitance Change Each Temperature (%)									
Code	Public STD Co		Reference Temperature	Temperature Range	Capacitance Change or Temperature Coefficient	Temperature Range	-55 Max.	5°C Min.	-28 Max.	5°C Min.	-10 Max.)°C Min.
R1	R *1	JIS	20°C	–55 to 125°C	±15%	−55 to 125°C	-	-	-	-	-	-
R3	R	JIS	20°C	–55 to 125°C	±15%	−55 to 125°C	-	-	-	-	-	-
R6	X5R	EIA	25°C	−55 to 85°C	±15%	–55 to 85°C	-	-	-	-	-	-
R7	X7R	EIA	25°C	–55 to 125°C	±15%	−55 to 125°C	-	-	-	-	-	-
R8	R *1	JIS	20°C	−25 to 85°C	±15%	–25 to 85°C	-	-	-	-	-	-
R9	X8R	EIA	25°C	–55 to 150°C	±15%	−55 to 150°C	-	-	-	-	-	-
wo		*2	25°C	–55 to 125°C	±10% *3	–55 to 125°C	-	-	-	-	-	-
VVO	-	- *2	25 0	-55 to 125 C	+22%, -33% *4	-55 to 125 C	-	-	-	-	-	-

^{*1} Capacitance change is specified with 50% rated voltage applied.

6 Rated Voltage

Code	Rated Voltage
0E	DC2.5V
0G	DC4V
0J	DC6.3V
1A	DC10V
1C	DC16V
1E	DC25V
YA	DC35V
1H	DC50V
2A	DC100V
2D	DC200V
2E	DC250V
YD	DC300V
2W	DC450V
2H	DC500V
2J	DC630V
3A	DC1kV
3D	DC2kV
3F	DC3.15kV
ВВ	DC350V (for Camera Flash Circuit)
E2	AC250V
GC	X1/Y2; AC250V (Safety Standard Certified Type GC)
GF	Y2, X1/Y2; AC250V (Safety Standard Certified Type GF)
GD	Y3; AC250V (Safety Standard Certified Type GD)
GB	X2; AC250V (Safety Standard Certified Type GB)

Capacitance

Expressed by three-digit alphanumerics. The unit is picofarad (pF). The first and second figures are significant digits, and the third figure expresses the number of zeros which follow the two numbers. If there is a decimal point, it is expressed by the capital letter " \mathbf{R} ." In this case, all figures are significant digits. If any alphabet, other than " \mathbf{R} ", is included, this indicates the specific part number is a non-standard part.

Ex.)	Code	Capacitance
	R50	0.5pF
	1R0	1.0pF
	100	10pF
	103	10000pF

8 Capacitance Tolerance

Code	Capacitance Tolerance
В	±0.1pF
С	±0.25pF
D	±0.5pF (10pF and below)
U	±0.5% (10pF and over)
F	±1%
G	±2%
J	±5%
K	±10%
М	±20%
N	±30%
R	Depends on individual standards.
W	±0.05pF
Х	Depends on individual standards.
Υ	Depends on individual standards.
Z	+80/–20%

Individual Specification Code (Except LLR) Expressed by three figures.

9ESR (**LLR** Only)

Code	ESR
E01	100mΩ
E03	220mΩ
E05	470mΩ
E07	1000mΩ

Packaging

Code Packaging L Ø180mm Embossed Taping D Ø180mm Paper Taping E Ø180mm Paper Taping (LLL15) K Ø330mm Embossed Taping J Ø330mm Paper Taping F Ø330mm Paper Taping (LLL15) B Bulk C Bulk Case T Bulk Tray		
D ø180mm Paper Taping E ø180mm Paper Taping (LLL15) K ø330mm Embossed Taping J ø330mm Paper Taping F ø330mm Paper Taping (LLL15) B Bulk C Bulk Case	Code	Packaging
E ø180mm Paper Taping (LLL15) K ø330mm Embossed Taping J ø330mm Paper Taping F ø330mm Paper Taping (LLL15) B Bulk C Bulk Case	L	ø180mm Embossed Taping
K ø330mm Embossed Taping J ø330mm Paper Taping F ø330mm Paper Taping (LLL15) B Bulk C Bulk Case	D	ø180mm Paper Taping
J ø330mm Paper Taping F ø330mm Paper Taping (LLL15) B Bulk C Bulk Case	E	ø180mm Paper Taping (LLL15)
F ø330mm Paper Taping (LLL15) B Bulk C Bulk Case	K	ø330mm Embossed Taping
B Bulk C Bulk Case	J	ø330mm Paper Taping
C Bulk Case	F	ø330mm Paper Taping (LLL15)
	В	Bulk
T Bulk Tray	С	Bulk Case
	Т	Bulk Tray



^{*2} Murata Temperature Characteristic Code.

^{*3} Apply DC350V bias.

^{*4} No DC bias.

Metal Terminal Monolithic Ceramic Capacitors

(Part Number) KR M 55 T R7 2A 106 M H01 K

Product ID

2Series

Product ID	Code	Series
KR	M	Metal Terminal Monolithic Ceramic Capacitors (DC25V to DC100V)
KR	3	Metal Terminal Monolithic Ceramic Capacitors Large Capacitance and High Allowable Ripple Current Type (DC250V to DC630V)

4 Height Dimension (T)

Code	Dimension (T)
F	1.9mm
K	2.7mm
L	2.8mm
Q	3.7mm
Т	4.8mm
W	6.4mm

③Chip Dimension (L×W)

Code	Chip Dimension	EIA	
31	3.2×1.6mm	1206	
55	5.7×5.0mm	2220	

5Temperature Characteristics

Temperature	Characteristic Co	odes	Te	Operating		
Code	Public STD Code		Reference Temperature	Temperature Range	Temperature Coefficient	Temperature Range
C8	X6S	EIA	25°C	−55 to 105°C	±22%	–55 to 105°C
D7	X7T	EIA	25°C	–55 to 125°C	+22/-33%	–55 to 125°C
R6	X5R	EIA	25°C	−55 to 85°C	±15%	−55 to 85°C
R7	X7R	EIA	25°C	−55 to 125°C	±15%	–55 to 125°C

6 Rated Voltage

Code	Rated Voltage
1E	DC25V
1H	DC50V
1J	DC63V
2A	DC100V
2E	DC250V
2W	DC450V
2J	DC630V

8 Capacitance Tolerance

Code	Capacitance Tolerance
K	±10%
M	±20%

Individual Specification Code

Expressed by three figures.

Package

Code	Package
K	ø330mm Embossed Taping

Capacitance

Expressed by three-digit alphanumerics. The unit is pico-farad (pF). The first and second figures are significant digits, and the third figure expresses the number of zeros that follow the two numbers.

Ex.)	Code	Capacitance
		- apaoitairo
	105	1.0µF
	225	2.2µF
	106	10μF
	226	22µF

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Low ESL LLL/LLR/LLA/LLM Series	·· p79
- High-Q Type GJM Series ······	·· p82
High Frequency GQM Series ······	·· p104
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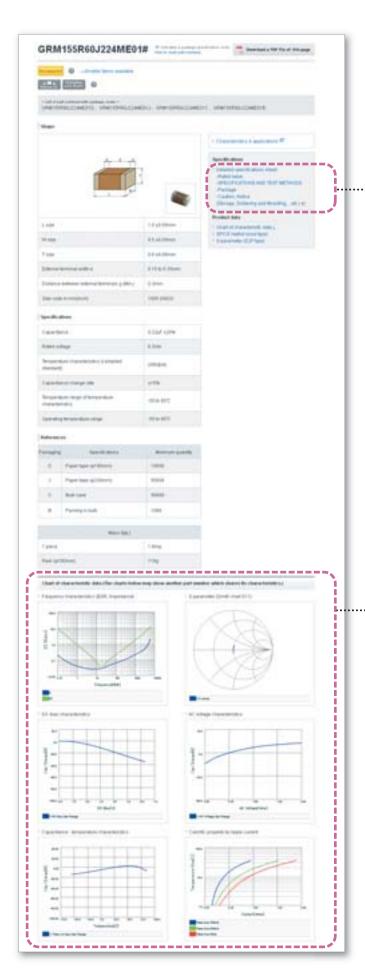
Caution/Noticep118



SEARCH

SPECIFICATIONS AND TEST METHODS, Package, Chart of characteristic data, please refer to the search for capacitor page WEB.

http://www.murata.com/products/capacitor/



Detailed specifications sheet

Rated value

...<u>O</u>

- SPECIFICATIONS AND TEST METHODS
- Package
- Caution, Notice (Storage, Soldering and Mounting,etc.)

Chart of characteristic data

The main products published characteristic data.

- Frequency characteristics(ESR, Impedance)
- S parameter(Smith chart S11)
- DC bias characteristics

0

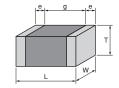
- AC voltage characteristics
- Capacitance temperature characteristics
- · Calorific property by ripple current

Chip Monolithic Ceramic Capacitors

For General Purpose GRM Series (Less than 250Vdc)

The most widely used capacitor in the world! Ideal capacitors can be selected from an abundant lineup.





- 1 Lineup of small size and large capacity capacitors is available.
- 2 Since the external electrodes consist of a plated structure, the product is excellent in soldering heat resistance, and flow (GRM18/21/31 types only) and reflow soldering can be used.
- 3 High reliability with no polarity.
- 4 Low impedance in high frequencies, and excellent in pulse response and noise elimination.
- The profile dimensions have been standardized with high precision, therefore high reliability can be acquired in the case of automatic mounting.
- Paper tape or embossed tape is used for the packaging, according to the chip size. GRM15/18/21 (T = 0.6, 1.25) can also be supplied in bulk cases.



■ 0.4:	×0.2mı	M comp	a- pact		
T max.	Rated Voltage	TC Code	Сар.	Tol.	Part Number
0.22mm	16Vdc	C0G	0.2pF	±0.05pF	GRM0225C1CR20WD05#
				±0.1pF	GRM0225C1CR20BD05#
			0.3pF	±0.05pF	GRM0225C1CR30WD05#
				±0.1pF	GRM0225C1CR30BD05#
			0.4pF	±0.05pF	GRM0225C1CR40WD05#
				±0.1pF	GRM0225C1CR40BD05#
			0.5pF	±0.05pF	GRM0225C1CR50WD05#
				±0.1pF	GRM0225C1CR50BD05#
			0.6pF	±0.05pF	GRM0225C1CR60WD05#
				±0.1pF	GRM0225C1CR60BD05#
			0.7pF	±0.05pF	GRM0225C1CR70WD05#
				±0.1pF	GRM0225C1CR70BD05#
			0.8pF	±0.05pF	GRM0225C1CR80WD05#
				±0.1pF	GRM0225C1CR80BD05#
			0.9pF	±0.05pF	GRM0225C1CR90WD05#
				±0.1pF	GRM0225C1CR90BD05#
			1.0pF	±0.05pF	GRM0225C1C1R0WD05#
				±0.1pF	GRM0225C1C1R0BD05#
				±0.25pF	GRM0225C1C1R0CD05#
			1.1pF	±0.05pF	GRM0225C1C1R1WD05#
				±0.1pF	GRM0225C1C1R1BD05#
				±0.25pF	GRM0225C1C1R1CD05#
			1.2pF	±0.05pF	GRM0225C1C1R2WD05#
				±0.1pF	GRM0225C1C1R2BD05#
				±0.25pF	GRM0225C1C1R2CD05#
			1.3pF	±0.05pF	GRM0225C1C1R3WD05#
				±0.1pF	GRM0225C1C1R3BD05#
				±0.25pF	GRM0225C1C1R3CD05#
			1.4pF	±0.05pF	GRM0225C1C1R4WD05#
				±0.1pF	GRM0225C1C1R4BD05#
				±0.25pF	GRM0225C1C1R4CD05#
			1.5pF	±0.05pF	GRM0225C1C1R5WD05#
				±0.1pF	GRM0225C1C1R5BD05#
				±0.25pF	GRM0225C1C1R5CD05#
			1.6pF	±0.05pF	GRM0225C1C1R6WD05#
				±0.1pF	GRM0225C1C1R6BD05#
				±0.25pF	GRM0225C1C1R6CD05#
			1.7pF	±0.05pF	GRM0225C1C1R7WD05#
				±0.1pF	GRM0225C1C1R7BD05#
				±0.25pF	GRM0225C1C1R7CD05#
			1.8pF	±0.05pF	GRM0225C1C1R8WD05#
				±0.1pF	GRM0225C1C1R8BD05#
				±0.25pF	GRM0225C1C1R8CD05#
			1.9pF	±0.05pF	GRM0225C1C1R9WD05#
				±0.1pF	GRM0225C1C1R9BD05#
				±0.25pF	GRM0225C1C1R9CD05#
			2.0pF	±0.05pF	GRM0225C1C2R0WD05#
			•	±0.1pF	GRM0225C1C2R0BD05#
				±0.25pF	GRM0225C1C2R0CD05#
			2.1pF	±0.05pF	
				±0.1pF	GRM0225C1C2R1BD05#
				±0.25pF	GRM0225C1C2R1CD05#

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number
0.22mm	16Vdc	COG	2.2pF	±0.05pF	GRM0225C1C2R2WD05#
V		000	p.	±0.1pF	GRM0225C1C2R2BD05#
				±0.25pF	GRM0225C1C2R2CD05#
			2.3pF	±0.05pF	GRM0225C1C2R3WD05#
			2.001	±0.1pF	GRM0225C1C2R3BD05#
				±0.25pF	
			2.4pF	±0.05pF	
			2p.	±0.1pF	GRM0225C1C2R4BD05#
				±0.25pF	
			2.5pF	±0.05pF	
			2.001	±0.1pF	GRM0225C1C2R5BD05#
				±0.25pF	GRM0225C1C2R5CD05#
			2.6pF	±0.05pF	
			2.001	±0.1pF	GRM0225C1C2R6BD05#
				±0.25pF	GRM0225C1C2R6CD05#
			2.7pF	±0.05pF	GRM0225C1C2R7WD05#
			Z., p.	±0.1pF	GRM0225C1C2R7BD05#
				±0.25pF	GRM0225C1C2R7CD05#
			2.8pF	±0.05pF	GRM0225C1C2R8WD05#
				±0.1pF	GRM0225C1C2R8BD05#
				±0.25pF	GRM0225C1C2R8CD05#
			2.9pF	±0.05pF	GRM0225C1C2R9WD05#
			•	±0.1pF	GRM0225C1C2R9BD05#
				±0.25pF	GRM0225C1C2R9CD05#
			3.0pF	±0.05pF	
				±0.1pF	GRM0225C1C3R0BD05#
				±0.25pF	GRM0225C1C3R0CD05#
			3.1pF	±0.05pF	GRM0225C1C3R1WD05#
				±0.1pF	GRM0225C1C3R1BD05#
				±0.25pF	GRM0225C1C3R1CD05#
			3.2pF	±0.05pF	GRM0225C1C3R2WD05#
				±0.1pF	GRM0225C1C3R2BD05#
				±0.25pF	GRM0225C1C3R2CD05#
			3.3pF	±0.05pF	GRM0225C1C3R3WD05#
				±0.1pF	GRM0225C1C3R3BD05#
				±0.25pF	GRM0225C1C3R3CD05#
			3.4pF	±0.05pF	GRM0225C1C3R4WD05#
				±0.1pF	GRM0225C1C3R4BD05#
				±0.25pF	GRM0225C1C3R4CD05#
			3.5pF	±0.05pF	GRM0225C1C3R5WD05#
				±0.1pF	GRM0225C1C3R5BD05#
				±0.25pF	GRM0225C1C3R5CD05#
			3.6pF	±0.05pF	GRM0225C1C3R6WD05#
				±0.1pF	GRM0225C1C3R6BD05#
				±0.25pF	GRM0225C1C3R6CD05#
			3.7pF	±0.05pF	GRM0225C1C3R7WD05#
				±0.1pF	GRM0225C1C3R7BD05#
				±0.25pF	GRM0225C1C3R7CD05#
			3.8pF	±0.05pF	GRM0225C1C3R8WD05#
				±0.1pF	GRM0225C1C3R8BD05#
				±0.25pF	GRM0225C1C3R8CD05#
			3.9pF	±0.05pF	GRM0225C1C3R9WD05#
				±0.1pF	GRM0225C1C3R9BD05#
				±0.25pF	GRM0225C1C3R9CD05#

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number
0.22mm		COG	4.0pF	±0.05pF	GRM0225C1C4R0WD05#
O.LL.	10100	000	1.001	±0.1pF	GRM0225C1C4R0BD05#
				±0.25pF	GRM0225C1C4R0CD05#
			4.1pF	±0.05pF	GRM0225C1C4R1WD05#
			4.1pr		
				±0.1pF	GRM0225C1C4R1BD05#
				±0.25pF	GRM0225C1C4R1CD05#
			4.2pF	±0.05pF	GRM0225C1C4R2WD05#
				±0.1pF	GRM0225C1C4R2BD05#
				±0.25pF	GRM0225C1C4R2CD05#
			4.3pF	±0.05pF	GRM0225C1C4R3WD05#
				±0.1pF	GRM0225C1C4R3BD05#
				±0.25pF	GRM0225C1C4R3CD05#
			4.4pF	±0.05pF	GRM0225C1C4R4WD05#
				±0.1pF	GRM0225C1C4R4BD05#
				±0.25pF	GRM0225C1C4R4CD05#
			4.5pF	±0.05pF	GRM0225C1C4R5WD05#
				±0.1pF	GRM0225C1C4R5BD05#
				±0.25pF	GRM0225C1C4R5CD05#
			4.6pF	±0.05pF	GRM0225C1C4R6WD05#
			4.0pi		GRM0225C1C4R6BD05#
				±0.1pF	
			47.5	±0.25pF	GRM0225C1C4R6CD05#
			4.7pF	±0.05pF	GRM0225C1C4R7WD05#
				±0.1pF	GRM0225C1C4R7BD05#
				±0.25pF	GRM0225C1C4R7CD05#
			4.8pF	±0.05pF	GRM0225C1C4R8WD05#
				±0.1pF	GRM0225C1C4R8BD05#
				±0.25pF	GRM0225C1C4R8CD05#
			4.9pF	±0.05pF	GRM0225C1C4R9WD05#
				±0.1pF	GRM0225C1C4R9BD05#
				±0.25pF	GRM0225C1C4R9CD05#
			5.0pF	±0.05pF	GRM0225C1C5R0WD05#
				±0.1pF	GRM0225C1C5R0BD05#
				±0.25pF	GRM0225C1C5R0CD05#
			5.1pF	±0.05pF	GRM0225C1C5R1WD05#
				±0.1pF	GRM0225C1C5R1BD05#
				±0.25pF	
			F 0-F	±0.5pF	GRM0225C1C5R1DD05#
			5.2pF	±0.05pF	GRM0225C1C5R2WD05#
				±0.1pF	GRM0225C1C5R2BD05#
				±0.25pF	GRM0225C1C5R2CD05#
				±0.5pF	GRM0225C1C5R2DD05#
			5.3pF	±0.05pF	GRM0225C1C5R3WD05#
				±0.1pF	GRM0225C1C5R3BD05#
				±0.25pF	GRM0225C1C5R3CD05#
				±0.5pF	GRM0225C1C5R3DD05#
			5.4pF	±0.05pF	GRM0225C1C5R4WD05#
				±0.1pF	GRM0225C1C5R4BD05#
				±0.25pF	GRM0225C1C5R4CD05#
				±0.5pF	GRM0225C1C5R4DD05#
			5.5pF	±0.05pF	GRM0225C1C5R5WD05#
			J.0pi	±0.1pF	GRM0225C1C5R5BD05#
				-	
				±0.25pF	GRM0225C1C5R5CD05#
				±0.5pF	GRM0225C1C5R5DD05#
			5.6pF	±0.05pF	GRM0225C1C5R6WD05#

T max.	Rated Voltage	TC Code	Сар.	Tol.	Part Number	
0.22mm	16Vdc	COG	5.6pF	±0.1pF	GRM0225C1C5R6BD05#	
				±0.25pF	GRM0225C1C5R6CD05#	
				±0.5pF	GRM0225C1C5R6DD05#	
			5.7pF	±0.05pF	GRM0225C1C5R7WD05#	
				±0.1pF	GRM0225C1C5R7BD05#	
				±0.25pF	GRM0225C1C5R7CD05#	
				±0.5pF	GRM0225C1C5R7DD05#	
			5.8pF	±0.05pF	GRM0225C1C5R8WD05#	
				±0.1pF	GRM0225C1C5R8BD05#	
				±0.25pF	GRM0225C1C5R8CD05#	
				±0.5pF	GRM0225C1C5R8DD05#	
			5.9pF	±0.05pF	GRM0225C1C5R9WD05#	
				±0.1pF	GRM0225C1C5R9BD05#	
				±0.25pF	GRM0225C1C5R9CD05#	
				±0.5pF	GRM0225C1C5R9DD05#	
			6.0pF	±0.05pF	GRM0225C1C6R0WD05#	
				±0.1pF	GRM0225C1C6R0BD05#	
				±0.25pF	GRM0225C1C6R0CD05#	
				±0.5pF	GRM0225C1C6R0DD05#	
			6.1pF	±0.05pF	GRM0225C1C6R1WD05#	
				±0.1pF	GRM0225C1C6R1BD05#	
				±0.25pF	GRM0225C1C6R1CD05#	
				±0.5pF	GRM0225C1C6R1DD05#	
			6.2pF	±0.05pF	GRM0225C1C6R2WD05#	
				±0.1pF	GRM0225C1C6R2BD05#	
				±0.25pF	GRM0225C1C6R2CD05#	
				±0.5pF	GRM0225C1C6R2DD05#	
			6.3pF	±0.05pF	GRM0225C1C6R3WD05#	
				±0.1pF	GRM0225C1C6R3BD05#	
				±0.25pF	GRM0225C1C6R3CD05#	
				±0.5pF	GRM0225C1C6R3DD05#	
			6.4pF	±0.05pF	GRM0225C1C6R4WD05#	
				±0.1pF	GRM0225C1C6R4BD05#	
				±0.25pF	GRM0225C1C6R4CD05#	
				±0.5pF	GRM0225C1C6R4DD05#	
			6.5pF	±0.05pF	GRM0225C1C6R5WD05#	
				±0.1pF	GRM0225C1C6R5BD05#	
				±0.25pF	GRM0225C1C6R5CD05#	
				±0.5pF	GRM0225C1C6R5DD05#	
			6.6pF	±0.05pF	GRM0225C1C6R6WD05#	
				±0.1pF	GRM0225C1C6R6BD05#	
				±0.25pF	GRM0225C1C6R6CD05#	
				±0.5pF	GRM0225C1C6R6DD05#	
			6.7pF	±0.05pF	GRM0225C1C6R7WD05#	
				±0.1pF	GRM0225C1C6R7BD05#	
				±0.25pF	GRM0225C1C6R7CD05#	
			00.5	±0.5pF	GRM0225C1C6R7DD05#	
			6.8pF	±0.05pF	GRM0225C1C6R8WD05#	
				±0.1pF	GRM0225C1C6R8BD05#	
				±0.25pF	GRM0225C1C6R8CD05#	
			6055	±0.5pF	GRM0225C1C6R8DD05#	
			6.9pF	±0.05pF	GRM0225C1C6R9WD05#	
				±0.1pF	GRM0225C1C6R9BD05#	
				±0.25pF	GRM0225C1C6R9CD05#	



T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number
0.22mm	16Vdc	COG	6.9pF	±0.5pF	GRM0225C1C6R9DD05#
			7.0pF	±0.05pF	GRM0225C1C7R0WD05#
				±0.1pF	GRM0225C1C7R0BD05#
				±0.25pF	GRM0225C1C7R0CD05#
				±0.5pF	GRM0225C1C7R0DD05#
			7.1pF	±0.05pF	GRM0225C1C7R1WD05#
				±0.1pF	GRM0225C1C7R1BD05#
				±0.25pF	GRM0225C1C7R1CD05#
				±0.5pF	GRM0225C1C7R1DD05#
			7.2pF	±0.05pF	GRM0225C1C7R2WD05#
				±0.1pF	GRM0225C1C7R2BD05#
				±0.25pF	GRM0225C1C7R2CD05#
				±0.5pF	GRM0225C1C7R2DD05#
			7.3pF	±0.05pF	GRM0225C1C7R3WD05#
				±0.1pF	GRM0225C1C7R3BD05#
				±0.25pF	GRM0225C1C7R3CD05#
				±0.5pF	GRM0225C1C7R3DD05#
			7.4pF	±0.05pF	GRM0225C1C7R4WD05#
			•	±0.1pF	GRM0225C1C7R4BD05#
				±0.25pF	GRM0225C1C7R4CD05#
				±0.5pF	GRM0225C1C7R4DD05#
			7.5pF	±0.05pF	GRM0225C1C7R5WD05#
			•	±0.1pF	GRM0225C1C7R5BD05#
				±0.25pF	GRM0225C1C7R5CD05#
				±0.5pF	GRM0225C1C7R5DD05#
			7.6pF	±0.05pF	GRM0225C1C7R6WD05#
				±0.1pF	GRM0225C1C7R6BD05#
				±0.25pF	GRM0225C1C7R6CD05#
				±0.5pF	GRM0225C1C7R6DD05#
			7.7pF	±0.05pF	GRM0225C1C7R7WD05#
			7.7 Pi	±0.1pF	GRM0225C1C7R7BD05#
				±0.25pF	GRM0225C1C7R7CD05#
				±0.5pF	GRM0225C1C7R7DD05#
			7.8pF	±0.05pF	GRM0225C1C7R8WD05#
			7.0pi	±0.05pi	GRM0225C1C7R8BD05#
				±0.25pF	GRM0225C1C7R8CD05#
				±0.5pF	GRM0225C1C7R8DD05#
			7 0pE	-	GRM0225C1C7R9WD05#
			7.9pF	±0.05pF	GRM0225C1C7R9BD05#
				±0.1pF	GRM0225C1C7R9CD05#
				±0.25pF	
			۵ ۵۰۲	±0.5pF	GRM0225C1C7R9DD05#
			8.0pF	±0.05pF	GRM0225C1C8R0WD05#
				±0.1pF	GRM0225C1C8R0BD05#
				±0.25pF	GRM0225C1C8R0CD05#
			04.5	±0.5pF	GRM0225C1C8R0DD05#
			8.1pF		GRM0225C1C8R1WD05#
				±0.1pF	GRM0225C1C8R1BD05#
					GRM0225C1C8R1CD05#
				±0.5pF	GRM0225C1C8R1DD05#
			8.2pF	±0.05pF	GRM0225C1C8R2WD05#
				±0.1pF	GRM0225C1C8R2BD05#
				±0.25pF	GRM0225C1C8R2CD05#
				±0.5pF	GRM0225C1C8R2DD05#
			8.3pF	±0.05pF	GRM0225C1C8R3WD05#

T max.	Rated Voltage	TC Code	Сар.	Tol.	Part Number
0.22mm	16Vdc	COG	8.3pF	±0.1pF	GRM0225C1C8R3BD05#
				±0.25pF	GRM0225C1C8R3CD05#
				±0.5pF	GRM0225C1C8R3DD05#
			8.4pF	±0.05pF	GRM0225C1C8R4WD05#
				±0.1pF	GRM0225C1C8R4BD05#
				±0.25pF	GRM0225C1C8R4CD05#
				±0.5pF	GRM0225C1C8R4DD05#
			8.5pF	±0.05pF	GRM0225C1C8R5WD05#
				±0.1pF	GRM0225C1C8R5BD05#
				±0.25pF	GRM0225C1C8R5CD05#
				±0.5pF	GRM0225C1C8R5DD05#
			8.6pF	±0.05pF	GRM0225C1C8R6WD05#
				±0.1pF	GRM0225C1C8R6BD05#
				±0.25pF	GRM0225C1C8R6CD05#
				±0.5pF	GRM0225C1C8R6DD05#
			8.7pF	±0.05pF	GRM0225C1C8R7WD05#
				±0.1pF	GRM0225C1C8R7BD05#
				±0.25pF	GRM0225C1C8R7CD05#
				±0.5pF	GRM0225C1C8R7DD05#
			8.8pF	±0.05pF	GRM0225C1C8R8WD05#
				±0.1pF	GRM0225C1C8R8BD05#
				±0.25pF	GRM0225C1C8R8CD05#
				±0.5pF	GRM0225C1C8R8DD05#
			8.9pF	±0.05pF	GRM0225C1C8R9WD05#
				±0.1pF	GRM0225C1C8R9BD05#
				±0.25pF	GRM0225C1C8R9CD05#
				±0.5pF	GRM0225C1C8R9DD05#
			9.0pF	±0.05pF	GRM0225C1C9R0WD05#
				±0.1pF	GRM0225C1C9R0BD05#
				±0.25pF	GRM0225C1C9R0CD05#
				±0.5pF	GRM0225C1C9R0DD05#
			9.1pF	±0.05pF	GRM0225C1C9R1WD05#
				±0.1pF	GRM0225C1C9R1BD05#
				±0.25pF	GRM0225C1C9R1CD05#
					±0.5pF
			9.2pF	±0.05pF	GRM0225C1C9R2WD05#
				±0.1pF	GRM0225C1C9R2BD05#
				±0.25pF	GRM0225C1C9R2CD05#
				±0.5pF	GRM0225C1C9R2DD05#
			9.3pF	±0.05pF	GRM0225C1C9R3WD05#
				±0.1pF	GRM0225C1C9R3BD05#
				±0.25pF	GRM0225C1C9R3CD05#
				±0.5pF	GRM0225C1C9R3DD05#
			9.4pF	±0.05pF	GRM0225C1C9R4WD05#
				±0.1pF	GRM0225C1C9R4BD05#
				±0.25pF	GRM0225C1C9R4CD05#
				±0.5pF	GRM0225C1C9R4DD05#
			9.5pF	±0.05pF	GRM0225C1C9R5WD05#
				±0.1pF	GRM0225C1C9R5BD05#
				±0.25pF	GRM0225C1C9R5CD05#
				±0.5pF	GRM0225C1C9R5DD05#
			9.6pF	±0.05pF	GRM0225C1C9R6WD05#
				±0.1pF	GRM0225C1C9R6BD05#
				±0.25pF	GRM0225C1C9R6CD05#

	0.4×0.21				
T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number
0.22mm	16Vdc	COG	9.6pF	±0.5pF	GRM0225C1C9R6DD05#
			9.7pF	±0.05pF	GRM0225C1C9R7WD05#
				±0.1pF	GRM0225C1C9R7BD05#
				±0.25pF	GRM0225C1C9R7CD05#
				±0.5pF	GRM0225C1C9R7DD05#
			9.8pF	±0.05pF	GRM0225C1C9R8WD05#
				±0.1pF	GRM0225C1C9R8BD05#
				±0.25pF	GRM0225C1C9R8CD05#
				±0.5pF	GRM0225C1C9R8DD05#
			9.9pF	±0.05pF	GRM0225C1C9R9WD05#
			•	±0.1pF	GRM0225C1C9R9BD05#
				±0.25pF	GRM0225C1C9R9CD05#
				±0.5pF	GRM0225C1C9R9DD05#
			10pF	±2%	GRM0225C1C100GD05#
			торг		
			10.5	±5%	GRM0225C1C100JD05#
			12pF	±2%	GRM0225C1C120GD05#
				±5%	GRM0225C1C120JD05#
			15pF	±2%	GRM0225C1C150GD05#
				±5%	GRM0225C1C150JD05#
			18pF	±2%	GRM0225C1C180GD05#
				±5%	GRM0225C1C180JD05#
			22pF	±2%	GRM0225C1C220GD05#
				±5%	GRM0225C1C220JD05#
			27pF	±2%	GRM0225C1C270GD05#
				±5%	GRM0225C1C270JD05#
			33pF	±2%	GRM0225C1C330GD05#
				±5%	GRM0225C1C330JD05#
			39pF	±2%	GRM0225C1C390GD05#
				±5%	GRM0225C1C390JD05#
			47pF	±2%	GRM0225C1C470GD05#
				±5%	GRM0225C1C470JD05#
		CK	0.2pF	±0.05pF	GRM0224C1CR20WD05#
		OIX	0.2pi		
			0.25	±0.1pF	GRM0224C1CR20BD05#
			0.3pF	±0.05pF	GRM0224C1CR30WD05#
				±0.1pF	GRM0224C1CR30BD05#
			0.4pF	±0.05pF	GRM0224C1CR40WD05#
				±0.1pF	GRM0224C1CR40BD05#
			0.5pF	±0.05pF	GRM0224C1CR50WD05#
				±0.1pF	GRM0224C1CR50BD05#
			0.6pF	±0.05pF	GRM0224C1CR60WD05#
				±0.1pF	GRM0224C1CR60BD05#
			0.7pF	±0.05pF	GRM0224C1CR70WD05#
				±0.1pF	GRM0224C1CR70BD05#
			0.8pF	±0.05pF	GRM0224C1CR80WD05#
				±0.1pF	GRM0224C1CR80BD05#
			0.9pF	±0.05pF	GRM0224C1CR90WD05#
			•	±0.1pF	GRM0224C1CR90BD05#
			1.0pF	±0.05pF	GRM0224C1C1R0WD05#
			- P.	±0.1pF	GRM0224C1C1R0BD05#
				±0.1pi	GRM0224C1C1R0CD05#
			1 1n=		
			1.1pF	±0.05pF	GRM0224C1C1R1WD05#
				±0.1pF	GRM0224C1C1R1BD05#
				±0.25pF	GRM0224C1C1R1CD05#
			1.2pF	±0.05pF	GRM0224C1C1R2WD05#

T max.	Rated Voltage	TC Code	Сар.	Tol.	Part Number	
0.22mm	16Vdc	СК	1.2pF	±0.1pF	GRM0224C1C1R2BD05#	
				±0.25pF	GRM0224C1C1R2CD05#	
			1.3pF	±0.05pF	GRM0224C1C1R3WD05#	
				±0.1pF	GRM0224C1C1R3BD05#	
				±0.25pF	GRM0224C1C1R3CD05#	
			1.4pF	±0.05pF	GRM0224C1C1R4WD05#	
				±0.1pF	GRM0224C1C1R4BD05#	
				±0.25pF	GRM0224C1C1R4CD05#	
			1.5pF	±0.05pF	GRM0224C1C1R5WD05#	
				±0.1pF	GRM0224C1C1R5BD05#	
				±0.25pF	GRM0224C1C1R5CD05#	
			1.6pF	±0.05pF	GRM0224C1C1R6WD05#	
				±0.1pF	GRM0224C1C1R6BD05#	
				±0.25pF	GRM0224C1C1R6CD05#	
			1.7pF	±0.05pF	GRM0224C1C1R7WD05#	
				±0.1pF	GRM0224C1C1R7BD05#	
				±0.25pF	GRM0224C1C1R7CD05#	
			1.8pF	±0.05pF	GRM0224C1C1R8WD05#	
				±0.1pF	GRM0224C1C1R8BD05#	
				±0.25pF	GRM0224C1C1R8CD05#	
			1.9pF	±0.05pF	GRM0224C1C1R9WD05#	
				±0.1pF	GRM0224C1C1R9BD05#	
				±0.25pF	GRM0224C1C1R9CD05#	
			2.0pF	±0.05pF	GRM0224C1C2R0WD05#	
				±0.1pF	GRM0224C1C2R0BD05#	
				±0.25pF	GRM0224C1C2R0CD05#	
		CJ	2.1pF	±0.05pF	GRM0223C1C2R1WD05#	
				±0.1pF	GRM0223C1C2R1BD05#	
				±0.25pF	GRM0223C1C2R1CD05#	
			2.2pF	±0.05pF	GRM0223C1C2R2WD05#	
				±0.1pF	GRM0223C1C2R2BD05#	
				±0.25pF	GRM0223C1C2R2CD05#	
			2.3pF	±0.05pF	GRM0223C1C2R3WD05#	
				±0.1pF	GRM0223C1C2R3BD05#	
				±0.25pF	GRM0223C1C2R3CD05#	
			2.4pF	±0.05pF	GRM0223C1C2R4WD05#	
				±0.1pF	GRM0223C1C2R4BD05#	-
				±0.25pF	GRM0223C1C2R4CD05#	-
			2.5pF	±0.05pF	GRM0223C1C2R5WD05#	
				±0.1pF	GRM0223C1C2R5BD05#	
				±0.25pF	GRM0223C1C2R5CD05#	
			2.6pF	±0.05pF	GRM0223C1C2R6WD05#	
				±0.1pF	GRM0223C1C2R6BD05#	
				±0.25pF	GRM0223C1C2R6CD05#	
			2.7pF	±0.05pF	GRM0223C1C2R7WD05#	
				±0.1pF	GRM0223C1C2R7BD05#	
				±0.25pF	GRM0223C1C2R7CD05#	
			2.8pF	±0.05pF	GRM0223C1C2R8WD05#	
				±0.1pF	GRM0223C1C2R8BD05#	
				±0.25pF	GRM0223C1C2R8CD05#	
			2.9pF	±0.05pF	GRM0223C1C2R9WD05#	
				±0.1pF	GRM0223C1C2R9BD05#	
				±0.25pF	GRM0223C1C2R9CD05#	
			3.0pF	±0.05pF	GRM0223C1C3R0WD05#	
		-	Part nur	mber # indic	cates the package specification of	code.



T max.	Rated Voltage	TC Code	Сар.	Tol.	Part Number
0.22mm	16Vdc	CJ	3.0pF	±0.1pF	GRM0223C1C3R0BD05#
				±0.25pF	GRM0223C1C3R0CD05#
			3.1pF	±0.05pF	GRM0223C1C3R1WD05#
				±0.1pF	GRM0223C1C3R1BD05#
				±0.25pF	GRM0223C1C3R1CD05#
			3.2pF	±0.05pF	GRM0223C1C3R2WD05#
				±0.1pF	GRM0223C1C3R2BD05#
				±0.25pF	GRM0223C1C3R2CD05#
			3.3pF	±0.05pF	GRM0223C1C3R3WD05#
				±0.1pF	GRM0223C1C3R3BD05#
				±0.25pF	GRM0223C1C3R3CD05#
			3.4pF	±0.05pF	GRM0223C1C3R4WD05#
				±0.1pF	GRM0223C1C3R4BD05#
				±0.25pF	GRM0223C1C3R4CD05#
			3.5pF	±0.05pF	GRM0223C1C3R5WD05#
			•	±0.1pF	GRM0223C1C3R5BD05#
				±0.25pF	GRM0223C1C3R5CD05#
			3.6pF	-	GRM0223C1C3R6WD05#
			о.ор.	±0.1pF	GRM0223C1C3R6BD05#
				±0.25pF	GRM0223C1C3R6CD05#
			3.7pF	±0.05pF	GRM0223C1C3R7WD05#
			5.7 pi	· ·	GRM0223C1C3R7BD05#
				±0.1pF	
			00.5	±0.25pF	GRM0223C1C3R7CD05#
			3.8pF	±0.05pF	GRM0223C1C3R8WD05#
				±0.1pF	GRM0223C1C3R8BD05#
			2 Op E	· ·	GRM0223C1C3R8CD05#
			3.9pF	±0.05pF	GRM0223C1C3R9WD05#
				±0.1pF	GRM0223C1C3R9BD05#
		011		±0.25pF	GRM0223C1C3R9CD05#
		СН	4.0pF	±0.05pF	GRM0222C1C4R0WD05#
				±0.1pF	GRM0222C1C4R0BD05#
				±0.25pF	GRM0222C1C4R0CD05#
			4.1pF	±0.05pF	GRM0222C1C4R1WD05#
				±0.1pF	GRM0222C1C4R1BD05#
				±0.25pF	GRM0222C1C4R1CD05#
			4.2pF	±0.05pF	GRM0222C1C4R2WD05#
				±0.1pF	GRM0222C1C4R2BD05#
				±0.25pF	GRM0222C1C4R2CD05#
			4.3pF	±0.05pF	GRM0222C1C4R3WD05#
				±0.1pF	GRM0222C1C4R3BD05#
				±0.25pF	GRM0222C1C4R3CD05#
			4.4pF	±0.05pF	GRM0222C1C4R4WD05#
				±0.1pF	GRM0222C1C4R4BD05#
				±0.25pF	GRM0222C1C4R4CD05#
			4.5pF	±0.05pF	GRM0222C1C4R5WD05#
				±0.1pF	GRM0222C1C4R5BD05#
				±0.25pF	GRM0222C1C4R5CD05#
			4.6pF	±0.05pF	GRM0222C1C4R6WD05#
				±0.1pF	GRM0222C1C4R6BD05#
				-	GRM0222C1C4R6CD05#
			4.7pF	±0.05pF	GRM0222C1C4R7WD05#
		1			
				±0.1nF	GRM0222C1C4R7BD05#
				±0.1pF ±0.25pF	GRM0222C1C4R7BD05# GRM0222C1C4R7CD05#

16Vdc	T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number	
4.9pF	0.22mm	16Vdc	СН	4.8pF	±0.1pF	GRM0222C1C4R8BD05#	
#0.1pF GRM0222C1C4R9D05# ±0.25pF GRM0222C1C5R0WD05# ±0.1pF GRM0222C1C5R0WD05# ±0.1pF GRM0222C1C5R0WD05# ±0.1pF GRM0222C1C5R1WD05# ±0.25pF GRM0222C1C5R1WD05# ±0.25pF GRM0222C1C5R1D05# ±0.5pF GRM0222C1C5R1D05# ±0.5pF GRM0222C1C5R1D05# ±0.5pF GRM0222C1C5R1D05# ±0.5pF GRM0222C1C5R2D05# ±0.5pF GRM0222C1C5R2D05# ±0.5pF GRM0222C1C5R3D05# ±0.5pF GRM0222C1C5R4D05# ±0.5pF GRM0222C1C5R4D05# ±0.5pF GRM0222C1C5R4D05# ±0.5pF GRM0222C1C5R4D05# ±0.5pF GRM0222C1C5R4D05# ±0.5pF GRM0222C1C5R3D05# ±0.5pF					±0.25pF	GRM0222C1C4R8CD05#	
#0.25pF GRM0222C1C5R0BD05# #0.1pF GRM0222C1C5R0BD05# #0.25pF GRM0222C1C5R0BD05# #0.25pF GRM0222C1C5R1D05# #0.1pF GRM0222C1C5R1D05# #0.5pF GRM0222C1C5R1D05# #0.5pF GRM0222C1C5R1D05# #0.5pF GRM0222C1C5R1D05# #0.5pF GRM0222C1C5R2D05# #0.5pF GRM0222C1C5R2D05# #0.5pF GRM0222C1C5R2D05# #0.5pF GRM0222C1C5R2D05# #0.5pF GRM0222C1C5R2D05# #0.5pF GRM0222C1C5R3D05# #0.5pF GRM0222C1C5R4D05# #0.5pF GRM0222C1C5R4D05# #0.5pF GRM0222C1C5R4D05# #0.5pF GRM0222C1C5R4D05# #0.5pF GRM0222C1C5R4D05# #0.5pF GRM0222C1C5R5D05# #0.5pF GRM0222C1C5R5D05# #0.5pF GRM0222C1C5R5D05# #0.5pF GRM0222C1C5R5D05# #0.5pF GRM0222C1C5R6D05# #0.5pF GRM0222C1C5R6D05# #0.5pF GRM0222C1C5R6D05# #0.5pF GRM0222C1C5R6D05# #0.5pF GRM0222C1C5R6D05# #0.5pF GRM0222C1C5R6D05# #0.5pF GRM0222C1C5R7D05# #0.5pF GRM0222C1C5R8D05# #0.5pF GRM0222C1C5R8D05# #0.5pF GRM0222C1C5R8D05# #0.5pF GRM0222C1C5R8D05# #0.5pF GRM0222C1C5R8D05# #0.5pF GRM0222C1C5R9D05# #0.5pF GRM0222C1C5R0D05# #0.5pF GRM0222C1C5R0D05# #0.5pF GRM0222C1C5R0D05# #0.5pF GRM0222C1C5R0D05# #0.5pF GRM0222C1C5R0D05# #0.5pF GRM0222C1C6R0D05# #0.5pF GRM0222C1C6R0D05# #0.5pF GRM0222C1C6R0D05# #0.5pF GRM0222C1C6R0D05# #0.5pF GRM022C1C6R0D05# #0.5pF GRM022C1C				4.9pF	±0.05pF	GRM0222C1C4R9WD05#	
5.0pF					±0.1pF	GRM0222C1C4R9BD05#	
#0.1pF GRM0222C1C5R0BD05# ±0.25pF GRM0222C1C5R1BD05# ±0.1pF GRM0222C1C5R1BD05# ±0.5pF GRM0222C1C5R1BD05# ±0.5pF GRM0222C1C5R1BD05# ±0.5pF GRM0222C1C5R2DD05# ±0.5pF GRM0222C1C5R2DD05# ±0.5pF GRM0222C1C5R2DD05# ±0.5pF GRM0222C1C5R3DD05# ±0.5pF GRM0222C1C5R4DD05# ±0.5pF GRM0222C1C5R4DD05# ±0.5pF GRM0222C1C5R4DD05# ±0.5pF GRM0222C1C5R4DD05# ±0.5pF GRM0222C1C5R4DD05# ±0.5pF GRM0222C1C5R5D05# ±0.5pF GRM0222C1C5R5D05# ±0.5pF GRM0222C1C5R6D005# ±0.5pF GRM0222C1C5R6D005# ±0.5pF GRM0222C1C5R6D005# ±0.5pF GRM0222C1C5R6D005# ±0.5pF GRM0222C1C5R6D05# ±0.5pF GRM0222C1C5R6D05# ±0.5pF GRM0222C1C5R6D05# ±0.5pF GRM0222C1C5R6D05# ±0.5pF GRM0222C1C5R6D05# ±0.5pF GRM0222C1C5R8D05# ±0.5pF GRM0222C1C5R0D05# ±0.5pF GRM0222C1C5R0D05# ±0.5pF GRM0222C1C5R0D05# ±0.5pF GRM0222C1C5R0D05# ±0.5pF GRM0222C1C5R0D05# ±0.5pF GRM0222C1C5R0D05# ±0.5pF GRM0222C1C					±0.25pF	GRM0222C1C4R9CD05#	
#0.25pF GRM0222C1C5R1WD05# #0.1pF GRM0222C1C5R1BD05# #0.25pF GRM0222C1C5R1DD05# #0.5pF GRM0222C1C5R1DD05# #0.5pF GRM0222C1C5R1DD05# #0.5pF GRM0222C1C5R2DD05# #0.5pF GRM0222C1C5R2DD05# #0.5pF GRM0222C1C5R2DD05# #0.5pF GRM0222C1C5R3DD05# #0.5pF GRM0222C1C5R4DD05# #0.5pF GRM0222C1C5R4DD05# #0.5pF GRM0222C1C5R4DD05# #0.5pF GRM0222C1C5R4DD05# #0.5pF GRM0222C1C5R5D05# #0.5pF GRM0222C1C5R5D05# #0.5pF GRM0222C1C5R5D05# #0.5pF GRM0222C1C5R5D05# #0.5pF GRM0222C1C5R6D05# #0.5pF GRM0222C1C5R6D005# #0.5pF GRM0222C1C5R6D005# #0.5pF GRM0222C1C5R6D005# #0.5pF GRM0222C1C5R6D005# #0.5pF GRM0222C1C5R6D005# #0.5pF GRM0222C1C5R6D05# #0.5pF GRM0222C1C5R7D05# #0.5pF GRM0222C1C5R7D05# #0.5pF GRM0222C1C5R7D05# #0.5pF GRM0222C1C5R7D05# #0.5pF GRM0222C1C5R7D05# #0.5pF GRM0222C1C5R8D05# #0.5pF GRM0222C1C5R9D05# #0.5pF GRM0222C1C5R9D05# #0.5pF GRM0222C1C5R9D05# #0.5pF GRM0222C1C5R9D05# #0.5pF GRM0222C1C5R9D05# #0.5pF GRM0222C1C5R0D05# #0.5pF GRM0222C1C5R				5.0pF	±0.05pF	GRM0222C1C5R0WD05#	
5.1pF					±0.1pF	GRM0222C1C5R0BD05#	
#0.1pF GRM0222C1CSR1DD05# #0.5pF GRM0222C1CSR2DD05# #0.5pF GRM022C1CSR2DD05# #0.5pF GRM022C1CSR2DD05# #0.5pF GRM022C1CSR2DD05# #0.5pF GRM022C1CSR3WD05# #0.5pF GRM022C1CSR4DD05# #0.5pF GRM022C1CSR4DD05# #0.5pF GRM022C1CSR4DD05# #0.5pF GRM022C1CSR5WD05# #0.5pF GRM022C1CSR5WD05# #0.5pF GRM022C1CSR5WD05# #0.5pF GRM022C1CSR5WD05# #0.5pF GRM022C1CSR5WD05# #0.5pF GRM022C1CSR5WD05# #0.5pF GRM022C1CSR6DD05# #0.5pF GRM022C1CSR6DD05# #0.5pF GRM022C1CSR6DD05# #0.5pF GRM022C1CSR6DD05# #0.5pF GRM022C1CSR6DD05# #0.5pF GRM022C1CSR0D05# #0.5pF GRM022C1CGR0D05#					±0.25pF	GRM0222C1C5R0CD05#	
#0.25pF GRM0222C1C5R1DD05# #0.5pF GRM022C1C5R2DD05# #0.1pF GRM022C1C5R2DD05# #0.5pF GRM022C1C5R2DD05# #0.5pF GRM022C1C5R3DD05# #0.5pF GRM022C1C5R4DD05# #0.5pF GRM022C1C5R4DD05# #0.5pF GRM022C1C5R4DD05# #0.5pF GRM022C1C5R4DD05# #0.5pF GRM022C1C5R5DD05# #0.5pF GRM022C1C5R5DD05# #0.5pF GRM022C1C5R5DD05# #0.5pF GRM022C1C5R5DD05# #0.5pF GRM022C1C5R5DD05# #0.5pF GRM022C1C5R6D05# #0.5pF GRM022C1C5R6D05# #0.5pF GRM022C1C5R6D05# #0.5pF GRM022C1C5R6D05# #0.5pF GRM022C1C5R6D05# #0.5pF GRM022C1C5R5DD05# #0.5pF GRM022C1C5R5DD05# #0.5pF GRM022C1C5R5DD05# #0.5pF GRM022C1C5R5DD05# #0.5pF GRM022C1C5R7DD05# #0.5pF GRM022C1C5R7DD05# #0.5pF GRM022C1C5R7DD05# #0.5pF GRM022C1C5R8DD05# #0.5pF GRM022C1C5R9DD05# #0.5pF GRM022C1C5R0DD05#				5.1pF	±0.05pF	GRM0222C1C5R1WD05#	
10.5pF 20.05pF 30.05pF 30.05					±0.1pF	GRM0222C1C5R1BD05#	
5.2pF					±0.25pF	GRM0222C1C5R1CD05#	
#0.1pF GRM0222C1C5R2DD05# #0.25pF GRM0222C1C5R2DD05# #0.5pF GRM022C1C5R3DD05# #0.1pF GRM022C1C5R3DD05# #0.25pF GRM022C1C5R3DD05# #0.5pF GRM022C1C5R3DD05# #0.5pF GRM022C1C5R3DD05# #0.5pF GRM022C1C5R3DD05# #0.5pF GRM022C1C5R3DD05# #0.5pF GRM022C1C5R4DD05# #0.5pF GRM022C1C5R4DD05# #0.5pF GRM022C1C5R4DD05# #0.5pF GRM022C1C5R5DD05# #0.5pF GRM022C1C5R6D05# #0.5pF GRM022C1C5R6D05# #0.5pF GRM022C1C5R6D05# #0.5pF GRM022C1C5R5DD05# #0.5pF GRM022C1C5R5DD05# #0.5pF GRM022C1C5R5DD05# #0.5pF GRM022C1C5R5DD05# #0.5pF GRM022C1C5R5DD05# #0.5pF GRM022C1C5R5DD05# #0.5pF GRM022C1C5R8DD05# #0.5pF GRM022C1C5R8DD05# #0.5pF GRM022C1C5R8DD05# #0.5pF GRM022C1C5R8DD05# #0.5pF GRM022C1C5R8DD05# #0.5pF GRM022C1C5R9D05# #0.5pF GRM022C1C6R0D05#					±0.5pF	GRM0222C1C5R1DD05#	
#0.25pF GRM0222C1C5R2DD05# #0.5pF GRM022C1C5R3WD05# #0.1pF GRM022C1C5R3WD05# #0.25pF GRM022C1C5R3WD05# #0.25pF GRM022C1C5R3DD05# #0.5pF GRM022C1C5R3DD05# #0.1pF GRM022C1C5R3DD05# #0.5pF GRM022C1C5R3WD05# #0.1pF GRM022C1C5R4WD05# #0.1pF GRM022C1C5R4WD05# #0.5pF GRM022C1C5R4WD05# #0.5pF GRM022C1C5R4WD05# #0.5pF GRM022C1C5R4DD05# #0.5pF GRM022C1C5R5WD05# #0.1pF GRM022C1C5R5WD05# #0.1pF GRM022C1C5R5D05# #0.5pF GRM022C1C5R5D05# #0.5pF GRM022C1C5R5WD05# #0.5pF GRM022C1C5R5D05# #0.5pF GRM022C1C5R6D05# #0.5pF GRM022C1C5R6D05# #0.5pF GRM022C1C5R6D05# #0.5pF GRM022C1C5R6D05# #0.5pF GRM022C1C5R6D05# #0.5pF GRM022C1C5R6D05# #0.5pF GRM022C1C5R7WD05# #0.5pF GRM022C1C5R7WD05# #0.5pF GRM022C1C5R8D05# #0.5pF GRM022C1C5R9D05# #0.5pF GRM022C1C5R9D05# #0.5pF GRM022C1C5R9D05# #0.5pF GRM022C1C6R0D05#				5.2pF	±0.05pF	GRM0222C1C5R2WD05#	
### ### ##############################					±0.1pF	GRM0222C1C5R2BD05#	
5.3pF ±0.05pF GRM0222C1C5R3WD05# ±0.1pF GRM0222C1C5R3D05# ±0.25pF GRM0222C1C5R3D05# ±0.5pF GRM022C1C5R3D05# ±0.5pF GRM022C1C5R4WD05# ±0.25pF GRM022C1C5R4WD05# ±0.5pF GRM022C1C5R4WD05# ±0.5pF GRM022C1C5R4WD05# ±0.5pF GRM022C1C5R5WD05# ±0.5pF GRM022C1C5R5WD05# ±0.5pF GRM022C1C5R5WD05# ±0.5pF GRM022C1C5R5WD05# ±0.5pF GRM022C1C5R5WD05# ±0.5pF GRM022C1C5R5WD05# ±0.5pF GRM022C1C5R6WD05# ±0.5pF GRM022C1C5R6WD05# ±0.5pF GRM022C1C5R6WD05# ±0.5pF GRM022C1C5R6WD05# ±0.5pF GRM022C1C5R6WD05# ±0.5pF GRM022C1C5R7WD05# ±0.5pF GRM022C1C5R7WD05# ±0.5pF GRM022C1C5R7WD05# ±0.5pF GRM022C1C5R7WD05# ±0.5pF GRM022C1C5R8WD05# ±0.5pF GRM022C1C6R0D05# ±0.5pF GRM022C1C6R1D05#					±0.25pF	GRM0222C1C5R2CD05#	
#0.1pF GRM0222C1C5R3BD05# #0.25pF GRM0222C1C5R3CD05# #0.5pF GRM0222C1C5R3DD05# #0.1pF GRM022C1C5R4WD05# #0.1pF GRM022C1C5R4WD05# #0.25pF GRM022C1C5R4DD05# #0.5pF GRM022C1C5R4DD05# #0.5pF GRM022C1C5R4DD05# #0.1pF GRM022C1C5R5WD05# #0.1pF GRM022C1C5R5WD05# #0.1pF GRM022C1C5R5WD05# #0.25pF GRM022C1C5R5D05# #0.5pF GRM022C1C5R5D05# #0.1pF GRM022C1C5R5D05# #0.1pF GRM022C1C5R6WD05# #0.25pF GRM022C1C5R6WD05# #0.25pF GRM022C1C5R6D05# #0.25pF GRM022C1C5R6D05# #0.5pF GRM022C1C5R6D05# #0.5pF GRM022C1C5R6D05# #0.5pF GRM022C1C5R7WD05# #0.1pF GRM022C1C5R7WD05# #0.25pF GRM022C1C5R7DD5# #0.5pF GRM022C1C5R8WD05# #0.5pF GRM022C1C5R8WD05# #0.5pF GRM022C1C5R8WD05# #0.5pF GRM022C1C5R8D05# #0.5pF GRM022C1C5R8D05# #0.5pF GRM022C1C5R9D05# #0.5pF GRM022C1C6R0WD05# #0.5pF GRM022C1C6R0D05# #0.5pF GRM022C1C6R0D05# #0.5pF GRM022C1C6R0D05# #0.5pF GRM022C1C6R0D05# #0.5pF GRM022C1C6R0D05# #0.5pF GRM022C1C6R0D05# #0.5pF GRM022C1C6R1BD05# #0.5pF GRM022C1C6R1BD05# #0.5pF GRM022C1C6R1DD05# #0.5pF GRM022C1C6R1DD05# #0.5pF GRM022C1C6R2WD05#					±0.5pF	GRM0222C1C5R2DD05#	
#0.25pF GRM0222C1C5R3DD05# #0.5pF GRM0222C1C5R3DD05# #0.1pF GRM022C1C5R4WD05# #0.25pF GRM022C1C5R4WD05# #0.5pF GRM022C1C5R4WD05# #0.5pF GRM022C1C5R4WD05# #0.5pF GRM022C1C5R4WD05# #0.1pF GRM022C1C5R5WD05# #0.1pF GRM022C1C5R5WD05# #0.5pF GRM022C1C5R5WD05# #0.5pF GRM022C1C5R5DD05# #0.5pF GRM022C1C5R5WD05# #0.1pF GRM022C1C5R6WD05# #0.1pF GRM022C1C5R6WD05# #0.1pF GRM022C1C5R6WD05# #0.5pF GRM022C1C5R6WD05# #0.5pF GRM022C1C5R6WD05# #0.5pF GRM022C1C5R6WD05# #0.1pF GRM022C1C5R6WD05# #0.1pF GRM022C1C5R7WD05# #0.1pF GRM022C1C5R7WD05# #0.1pF GRM022C1C5R7WD05# #0.5pF GRM022C1C5R7WD05# #0.5pF GRM022C1C5R8WD05# #0.1pF GRM022C1C5R8WD05# #0.1pF GRM022C1C5R8WD05# #0.5pF GRM022C1C5R8WD05# #0.5pF GRM022C1C5R8WD05# #0.5pF GRM022C1C5R8WD05# #0.5pF GRM022C1C5R9WD05# #0.1pF GRM022C1C5R9WD05# #0.1pF GRM022C1C5R9WD05# #0.5pF GRM022C1C5R9DD05# #0.5pF GRM022C1C6R0WD05# #0.5pF GRM022C1C6R0DD05# #0.5pF GRM022C1C6R0DD05# #0.5pF GRM022C1C6R0DD05# #0.5pF GRM022C1C6R1BD05# #0.5pF GRM022C1C6R1BD05# #0.5pF GRM022C1C6R1BD05# #0.5pF GRM022C1C6R1BD05# #0.5pF GRM022C1C6R1DD05#				5.3pF	±0.05pF	GRM0222C1C5R3WD05#	
#0.5pF GRM0222C1C5R3DD05# #0.1pF GRM022C1C5R4WD05# #0.25pF GRM022C1C5R4WD05# #0.5pF GRM022C1C5R4WD05# #0.5pF GRM022C1C5R5WD05# #0.5pF GRM022C1C5R5WD05# #0.5pF GRM022C1C5R5DD05# #0.5pF GRM022C1C5R5DD05# #0.5pF GRM022C1C5R6WD05# #0.5pF GRM022C1C5R7WD05# #0.5pF GRM022C1C5R7WD05# #0.5pF GRM022C1C5R7WD05# #0.5pF GRM022C1C5R8WD05# #0.5pF GRM022C1C5R9WD05# #0.5pF GRM022C1C5R9WD05# #0.5pF GRM022C1C5R9WD05# #0.5pF GRM022C1C5R9D05# #0.5pF GRM022C1C5R9D05# #0.5pF GRM022C1C5R9D05# #0.5pF GRM022C1C5R0D05#					±0.1pF	GRM0222C1C5R3BD05#	
5.4pf					±0.25pF	GRM0222C1C5R3CD05#	
#0.1pF GRM0222C1C5R4BD05# #0.5pF GRM0222C1C5R4CD05# #0.5pF GRM0222C1C5R4CD05# #0.1pF GRM022C1C5R5WD05# #0.1pF GRM022C1C5R5WD05# #0.25pF GRM022C1C5R5D05# #0.5pF GRM022C1C5R5D05# #0.5pF GRM022C1C5R5D05# #0.5pF GRM022C1C5R5D05# #0.5pF GRM022C1C5R6WD05# #0.1pF GRM022C1C5R6WD05# #0.25pF GRM022C1C5R6D05# #0.5pF GRM022C1C5R6D05# #0.5pF GRM022C1C5R6D05# #0.5pF GRM022C1C5R6D05# #0.5pF GRM022C1C5R7WD05# #0.5pF GRM022C1C5R7WD05# #0.5pF GRM022C1C5R7D05# #0.5pF GRM022C1C5R7D05# #0.5pF GRM022C1C5R8WD05# #0.5pF GRM022C1C5R8D05# #0.5pF GRM022C1C5R8D05# #0.5pF GRM022C1C5R8D05# #0.5pF GRM022C1C5R8D05# #0.5pF GRM022C1C5R9D05# #0.5pF GRM022C1C6R0WD05# #0.5pF GRM022C1C6R0WD05# #0.5pF GRM022C1C6R0D05# #0.5pF GRM022C1C6R0D05# #0.5pF GRM022C1C6R1D05#					±0.5pF	GRM0222C1C5R3DD05#	
#0.25pF GRM0222C1C5R4CD05# #0.5pF GRM0222C1C5R4DD05# #0.1pF GRM0222C1C5R5WD05# #0.25pF GRM0222C1C5R5WD05# #0.25pF GRM0222C1C5R5D05# #0.5pF GRM022C1C5R5D05# #0.5pF GRM022C1C5R5D05# #0.1pF GRM022C1C5R6WD05# #0.1pF GRM022C1C5R6WD05# #0.1pF GRM022C1C5R6D05# #0.25pF GRM022C1C5R6D05# #0.5pF GRM022C1C5R6D05# #0.5pF GRM022C1C5R6D05# #0.5pF GRM022C1C5R7WD05# #0.25pF GRM022C1C5R7WD05# #0.5pF GRM022C1C5R7D05# #0.5pF GRM022C1C5R7D05# #0.5pF GRM022C1C5R8WD05# #0.1pF GRM022C1C5R8WD05# #0.25pF GRM022C1C5R8D05# #0.5pF GRM022C1C5R8D05# #0.5pF GRM022C1C5R8D05# #0.5pF GRM022C1C5R8D05# #0.5pF GRM022C1C5R9D05# #0.5pF GRM022C1C6R0B005# #0.5pF GRM022C1C6R0B005# #0.5pF GRM022C1C6R0D05# #0.5pF GRM022C1C6R0D05# #0.5pF GRM022C1C6R1D05#				5.4pF	±0.05pF	GRM0222C1C5R4WD05#	
#0.5pF GRM0222C1C5R4DD05# #0.1pF GRM0222C1C5R5WD05# #0.25pF GRM0222C1C5R5D05# #0.5pF GRM0222C1C5R5D05# #0.5pF GRM0222C1C5R5D05# #0.5pF GRM022C1C5R5D05# #0.5pF GRM022C1C5R6WD05# #0.1pF GRM022C1C5R6WD05# #0.25pF GRM022C1C5R6D05# #0.5pF GRM022C1C5R6D05# #0.5pF GRM022C1C5R6D05# #0.1pF GRM022C1C5R7WD05# #0.1pF GRM022C1C5R7WD05# #0.5pF GRM022C1C5R7D05# #0.5pF GRM022C1C5R7D05# #0.5pF GRM022C1C5R7D05# #0.1pF GRM022C1C5R7D05# #0.1pF GRM022C1C5R8WD05# #0.25pF GRM022C1C5R8WD05# #0.5pF GRM022C1C5R8D05# #0.5pF GRM022C1C5R8D05# #0.5pF GRM022C1C5R8D05# #0.5pF GRM022C1C5R9D05# #0.5pF GRM022C1C5R9D05# #0.5pF GRM022C1C5R9D05# #0.5pF GRM022C1C5R9D05# #0.5pF GRM022C1C5R9D05# #0.5pF GRM022C1C5R9D05# #0.5pF GRM022C1C6R0D05# #0.5pF GRM022C1C6R0D05# #0.5pF GRM022C1C6R0D05# #0.5pF GRM022C1C6R0D05# #0.5pF GRM022C1C6R1D05#					±0.1pF	GRM0222C1C5R4BD05#	
5.5pF					±0.25pF	GRM0222C1C5R4CD05#	
#0.1pF GRM0222C1C5R5BD05# #0.25pF GRM0222C1C5R5CD05# #0.5pF GRM0222C1C5R5DD05# #0.1pF GRM0222C1C5R6WD05# #0.1pF GRM0222C1C5R6BD05# #0.25pF GRM0222C1C5R6CD05# #0.5pF GRM0222C1C5R6DD05# #0.1pF GRM0222C1C5R6DD05# #0.1pF GRM0222C1C5R7WD05# #0.1pF GRM0222C1C5R7DD05# #0.5pF GRM0222C1C5R7DD05# #0.5pF GRM0222C1C5R7DD05# #0.5pF GRM0222C1C5R8WD05# #0.1pF GRM0222C1C5R8WD05# #0.1pF GRM0222C1C5R8DD05# #0.25pF GRM0222C1C5R8DD05# #0.5pF GRM0222C1C5R8DD05# #0.5pF GRM0222C1C5R8DD05# #0.5pF GRM0222C1C5R9WD05# #0.1pF GRM0222C1C5R9WD05# #0.1pF GRM0222C1C5R9D05# #0.5pF GRM0222C1C5R9D05# #0.5pF GRM0222C1C5R9D05# #0.5pF GRM0222C1C5R9D05# #0.5pF GRM0222C1C6R0WD05# #0.5pF GRM0222C1C6R0DD05# #0.5pF GRM0222C1C6R0DD05# #0.5pF GRM0222C1C6R0DD05# #0.5pF GRM0222C1C6R0DD05# #0.5pF GRM0222C1C6R1WD05# #0.5pF GRM0222C1C6R1DD05# #0.1pF GRM0222C1C6R1DD05# #0.5pF GRM0222C1C6R1DD05#					±0.5pF	GRM0222C1C5R4DD05#	
#0.5pF GRM0222C1C5R5CD05# #0.5pF GRM0222C1C5R6WD05# #0.1pF GRM0222C1C5R6BD05# #0.5pF GRM0222C1C5R6CD05# #0.5pF GRM0222C1C5R6CD05# #0.5pF GRM0222C1C5R6DD05# #0.1pF GRM0222C1C5R7WD05# #0.1pF GRM0222C1C5R7WD05# #0.1pF GRM0222C1C5R7DD05# #0.5pF GRM0222C1C5R7DD05# #0.5pF GRM0222C1C5R7DD05# #0.5pF GRM0222C1C5R8DD05# #0.1pF GRM0222C1C5R8DD05# #0.1pF GRM0222C1C5R8DD05# #0.5pF GRM0222C1C5R8DD05# #0.5pF GRM0222C1C5R8DD05# #0.5pF GRM0222C1C5R8DD05# #0.5pF GRM0222C1C5R8DD05# #0.1pF GRM0222C1C5R9WD05# #0.1pF GRM0222C1C5R9DD05# #0.5pF GRM0222C1C5R9DD05# #0.5pF GRM0222C1C5R9D05# #0.5pF GRM0222C1C5R9D05# #0.5pF GRM0222C1C6R0DD05# #0.5pF GRM0222C1C6R0DD05# #0.5pF GRM0222C1C6R0DD05# #0.5pF GRM0222C1C6R0DD05# #0.5pF GRM0222C1C6R1WD05# #0.5pF GRM0222C1C6R1DD05#				5.5pF	±0.05pF	GRM0222C1C5R5WD05#	
#0.5pF GRM0222C1C5R6WD05# #0.1pF GRM0222C1C5R6WD05# #0.1pF GRM0222C1C5R6ED05# #0.25pF GRM0222C1C5R6CD05# #0.5pF GRM0222C1C5R6CD05# #0.5pF GRM0222C1C5R6DD05# #0.1pF GRM0222C1C5R7WD05# #0.1pF GRM0222C1C5R7CD05# #0.5pF GRM0222C1C5R7DD05# #0.5pF GRM0222C1C5R8WD05# #0.1pF GRM0222C1C5R8WD05# #0.1pF GRM0222C1C5R8WD05# #0.1pF GRM0222C1C5R8WD05# #0.25pF GRM0222C1C5R8D05# #0.25pF GRM0222C1C5R8D05# #0.5pF GRM0222C1C5R8D05# #0.5pF GRM0222C1C5R8D05# #0.5pF GRM0222C1C5R9WD05# #0.1pF GRM0222C1C5R9WD05# #0.5pF GRM0222C1C5R9D05# #0.5pF GRM0222C1C5R9D05# #0.5pF GRM0222C1C6R0WD05# #0.5pF GRM0222C1C6R0WD05# #0.1pF GRM0222C1C6R0D05# #0.25pF GRM0222C1C6R0D05# #0.5pF GRM0222C1C6R0D05# #0.5pF GRM0222C1C6R1WD05# #0.5pF GRM0222C1C6R1D05#					±0.1pF	GRM0222C1C5R5BD05#	
### 10.05pF GRM0222C1C5R6WD05# ±0.1pF GRM0222C1C5R6BD05# ±0.25pF GRM0222C1C5R6DD05# ±0.5pF GRM0222C1C5R6DD05# ±0.5pF GRM0222C1C5R7WD05# ±0.1pF GRM0222C1C5R7CD05# ±0.5pF GRM0222C1C5R7CD05# ±0.5pF GRM0222C1C5R7DD05# ±0.5pF GRM0222C1C5R8WD05# ±0.5pF GRM0222C1C5R8DD05# ±0.5pF GRM0222C1C5R8DD05# ±0.5pF GRM0222C1C5R9WD05# ±0.5pF GRM0222C1C5R9WD05# ±0.5pF GRM0222C1C5R9DD05# ±0.5pF GRM0222C1C5R9DD05# ±0.5pF GRM0222C1C5R9DD05# ±0.5pF GRM0222C1C5R9DD05# ±0.5pF GRM0222C1C5R9DD05# ±0.5pF GRM0222C1C5R9DD05# ±0.5pF GRM0222C1C6R0WD05# ±0.5pF GRM0222C1C6R0WD05# ±0.5pF GRM0222C1C6R0DD05# ±0.5pF GRM0222C1C6R0DD05# ±0.5pF GRM0222C1C6R0DD05# ±0.5pF GRM0222C1C6R1WD05# ±0.1pF GRM0222C1C6R1WD05# ±0.1pF GRM0222C1C6R1DD05# ±0.5pF ±0.5pF GRM022C1C6R1DD05# ±0.5pF ±0.5pF ±0.5pF ±0.5pF ±0.5pF ±0.5pF					±0.25pF	GRM0222C1C5R5CD05#	
#0.1pF GRM0222C1C5R6BD05# #0.25pF GRM0222C1C5R6DD05# #0.5pF GRM0222C1C5R7WD05# #0.1pF GRM0222C1C5R7WD05# #0.25pF GRM0222C1C5R7DD05# #0.5pF GRM0222C1C5R7DD05# #0.5pF GRM0222C1C5R7DD05# #0.5pF GRM0222C1C5R8WD05# #0.1pF GRM0222C1C5R8WD05# #0.1pF GRM0222C1C5R8DD05# #0.25pF GRM0222C1C5R8DD05# #0.5pF GRM0222C1C5R8DD05# #0.5pF GRM0222C1C5R9WD05# #0.1pF GRM0222C1C5R9WD05# #0.1pF GRM0222C1C5R9DD05# #0.5pF GRM0222C1C5R9DD05# #0.5pF GRM0222C1C5R9DD05# #0.5pF GRM0222C1C5R9DD05# #0.5pF GRM0222C1C6R0WD05# #0.1pF GRM0222C1C6R0WD05# #0.25pF GRM0222C1C6R0DD05# #0.5pF GRM0222C1C6R0DD05# #0.5pF GRM0222C1C6R0DD05# #0.5pF GRM0222C1C6R0DD05# #0.5pF GRM0222C1C6R1WD05# #0.5pF GRM0222C1C6R1BD05# #0.5pF GRM0222C1C6R1DD05# #0.5pF GRM0222C1C6R1DD05# #0.5pF GRM0222C1C6R1DD05# #0.5pF GRM0222C1C6R1DD05# #0.5pF GRM0222C1C6R1DD05# #0.5pF GRM0222C1C6R1DD05#					±0.5pF	GRM0222C1C5R5DD05#	
#0.25pF GRM0222C1C5R6CD05# #0.5pF GRM0222C1C5R7WD05# #0.1pF GRM0222C1C5R7WD05# #0.25pF GRM0222C1C5R7CD05# #0.5pF GRM0222C1C5R7CD05# #0.5pF GRM0222C1C5R7DD05# #0.1pF GRM0222C1C5R8WD05# #0.1pF GRM0222C1C5R8WD05# #0.1pF GRM0222C1C5R8DD05# #0.5pF GRM0222C1C5R8DD05# #0.5pF GRM0222C1C5R8DD05# #0.5pF GRM0222C1C5R8DD05# #0.1pF GRM0222C1C5R9WD05# #0.1pF GRM0222C1C5R9WD05# #0.25pF GRM0222C1C5R9DD05# #0.5pF GRM0222C1C5R9DD05# #0.5pF GRM0222C1C5R9DD05# #0.5pF GRM0222C1C6R0WD05# #0.5pF GRM0222C1C6R0WD05# #0.5pF GRM0222C1C6R0D05# #0.5pF GRM0222C1C6R0D05# #0.5pF GRM0222C1C6R1WD05# #0.5pF GRM0222C1C6R1WD05# #0.5pF GRM0222C1C6R1D05# #0.5pF GRM022C1C6R1D05# #0.5pF GRM0222C1C6R1D05# #0.5pF GRM0222C1C6R1D05# #0.5pF GRM0222C1C6R1D05# #0.5pF GRM0222C1C6R1DD05# #0.5pF GRM0222C1C6R1DD05#				5.6pF	±0.05pF	GRM0222C1C5R6WD05#	
#0.5pF GRM0222C1C5R6DD05# #0.1pF GRM0222C1C5R7WD05# #0.25pF GRM0222C1C5R7DD05# #0.5pF GRM0222C1C5R7DD05# #0.5pF GRM0222C1C5R7DD05# #0.1pF GRM0222C1C5R8WD05# #0.1pF GRM0222C1C5R8WD05# #0.25pF GRM0222C1C5R8DD05# #0.5pF GRM0222C1C5R8DD05# #0.5pF GRM0222C1C5R8DD05# #0.1pF GRM0222C1C5R8DD05# #0.1pF GRM0222C1C5R9WD05# #0.25pF GRM0222C1C5R9DD05# #0.5pF GRM0222C1C5R9DD05# #0.5pF GRM0222C1C5R9DD05# #0.5pF GRM0222C1C6R0WD05# #0.1pF GRM0222C1C6R0WD05# #0.1pF GRM0222C1C6R0DD05# #0.5pF GRM0222C1C6R0DD05# #0.5pF GRM0222C1C6R0DD05# #0.5pF GRM0222C1C6R1WD05# #0.5pF GRM0222C1C6R1BD05# #0.5pF GRM0222C1C6R1DD05# #0.5pF GRM022C1C6R1DD05# #0.5pF GRM0222C1C6R1DD05# #0.5pF GRM0222C1C6R1DD05# #0.5pF GRM0222C1C6R1DD05# #0.5pF GRM0222C1C6R1DD05# #0.5pF GRM0222C1C6R1DD05#					±0.1pF	GRM0222C1C5R6BD05#	
5.7pF ±0.05pF GRM0222C1C5R7WD05# ±0.1pF GRM0222C1C5R7DD05# ±0.25pF GRM0222C1C5R7DD05# ±0.5pF GRM0222C1C5R8WD05# ±0.1pF GRM0222C1C5R8WD05# ±0.25pF GRM0222C1C5R8DD05# ±0.5pF GRM0222C1C5R8DD05# ±0.5pF GRM0222C1C5R9WD05# ±0.5pF GRM0222C1C5R9WD05# ±0.1pF GRM0222C1C5R9BD05# ±0.25pF GRM0222C1C5R9D05# ±0.5pF GRM0222C1C5R9D05# ±0.5pF GRM0222C1C5R9D05# ±0.5pF GRM0222C1C6R0WD05# ±0.5pF GRM0222C1C6R0DD05# ±0.05pF GRM0222C1C6R0D05# ±0.05pF GRM0222C1C6R0D05# ±0.5pF GRM0222C1C6R0D05# ±0.5pF GRM0222C1C6R1WD05# ±0.5pF GRM0222C1C6R1BD05# ±0.25pF GRM0222C1C6R1D05# ±0.25pF GRM0222C1C6R1D05# ±0.5pF GRM0222C1C6R1D05# ±0.5pF GRM0222C1C6R1D05# ±0.5pF GRM0222C1C6R1D05#					±0.25pF	GRM0222C1C5R6CD05#	
#0.1pF GRM0222C1C5R7BD05# #0.25pF GRM0222C1C5R7CD05# #0.5pF GRM0222C1C5R8WD05# #0.1pF GRM0222C1C5R8WD05# #0.25pF GRM0222C1C5R8CD05# #0.25pF GRM0222C1C5R8DD05# #0.5pF GRM0222C1C5R8DD05# #0.1pF GRM0222C1C5R9DD05# #0.1pF GRM0222C1C5R9DD05# #0.25pF GRM0222C1C5R9DD05# #0.5pF GRM0222C1C5R9DD05# #0.5pF GRM0222C1C5R9DD05# #0.5pF GRM0222C1C6R0WD05# #0.1pF GRM0222C1C6R0WD05# #0.1pF GRM022C1C6R0DD05# #0.25pF GRM0222C1C6R0DD05# #0.5pF GRM0222C1C6R0DD05# #0.5pF GRM0222C1C6R1WD05# #0.5pF GRM0222C1C6R1WD05# #0.5pF GRM0222C1C6R1BD05# #0.25pF GRM0222C1C6R1DD05# #0.25pF GRM0222C1C6R1DD05# #0.5pF GRM0222C1C6R1DD05# #0.5pF GRM0222C1C6R1DD05# #0.5pF GRM0222C1C6R1DD05# #0.5pF GRM0222C1C6R1DD05# #0.5pF GRM0222C1C6R1DD05# #0.5pF GRM0222C1C6R1DD05#					±0.5pF	GRM0222C1C5R6DD05#	
#0.25pF GRM0222C1C5R7CD05# #0.5pF GRM0222C1C5R8WD05# #0.1pF GRM0222C1C5R8BD05# #0.25pF GRM0222C1C5R8DD05# #0.5pF GRM0222C1C5R8DD05# #0.5pF GRM0222C1C5R8DD05# #0.1pF GRM0222C1C5R9WD05# #0.1pF GRM0222C1C5R9WD05# #0.25pF GRM0222C1C5R9DD05# #0.5pF GRM0222C1C5R9DD05# #0.5pF GRM0222C1C5R9DD05# #0.5pF GRM0222C1C6R0WD05# #0.1pF GRM0222C1C6R0WD05# #0.25pF GRM0222C1C6R0D05# #0.25pF GRM0222C1C6R0D05# #0.5pF GRM0222C1C6R1WD05# #0.5pF GRM0222C1C6R1WD05# #0.1pF GRM0222C1C6R1BD05# #0.25pF GRM0222C1C6R1DD05# #0.5pF GRM0222C1C6R1DD05#				5.7pF	±0.05pF	GRM0222C1C5R7WD05#	
#0.5pF GRM0222C1C5R7DD05# #0.1pF GRM0222C1C5R8WD05# #0.25pF GRM0222C1C5R8DD05# #0.5pF GRM0222C1C5R8DD05# #0.5pF GRM0222C1C5R8DD05# #0.1pF GRM0222C1C5R9WD05# #0.1pF GRM0222C1C5R9BD05# #0.25pF GRM0222C1C5R9DD05# #0.5pF GRM0222C1C5R9DD05# #0.5pF GRM0222C1C5R9DD05# #0.1pF GRM0222C1C5R9DD05# #0.1pF GRM0222C1C6R0WD05# #0.1pF GRM0222C1C6R0DD05# #0.5pF GRM0222C1C6R0DD05# #0.5pF GRM0222C1C6R1WD05# #0.5pF GRM0222C1C6R1BD05# #0.1pF GRM0222C1C6R1BD05# #0.5pF GRM0222C1C6R1DD05#					±0.1pF	GRM0222C1C5R7BD05#	
5.8pF ±0.05pF GRM0222C1C5R8WD05# ±0.1pF GRM0222C1C5R8BD05# ±0.25pF GRM0222C1C5R8DD05# ±0.5pF GRM0222C1C5R9WD05# ±0.1pF GRM0222C1C5R9BD05# ±0.25pF GRM0222C1C5R9BD05# ±0.25pF GRM0222C1C5R9DD05# ±0.5pF GRM0222C1C5R9DD05# ±0.5pF GRM0222C1C6R0WD05# ±0.1pF GRM0222C1C6R0BD05# ±0.1pF GRM0222C1C6R0D05# ±0.5pF GRM0222C1C6R0D05# ±0.5pF GRM0222C1C6R0DD05# ±0.5pF GRM0222C1C6R1WD05# ±0.1pF GRM0222C1C6R1BD05# ±0.25pF GRM0222C1C6R1BD05# ±0.25pF GRM0222C1C6R1D05# ±0.25pF GRM0222C1C6R1DD05# ±0.5pF GRM0222C1C6R1DD05# ±0.5pF GRM0222C1C6R1DD05#					±0.25pF	GRM0222C1C5R7CD05#	
#0.1pF GRM0222C1C5R8BD05# #0.25pF GRM0222C1C5R8CD05# #0.5pF GRM0222C1C5R8DD05# \$5.9pF #0.05pF GRM0222C1C5R9WD05# #0.1pF GRM0222C1C5R9BD05# #0.5pF GRM0222C1C5R9DD05# #0.5pF GRM0222C1C5R9DD05# #0.5pF GRM0222C1C6R0WD05# #0.1pF GRM0222C1C6R0BD05# #0.1pF GRM0222C1C6R0BD05# #0.5pF GRM0222C1C6R0D05# #0.5pF GRM0222C1C6R0D05# #0.5pF GRM0222C1C6R1WD05# #0.1pF GRM0222C1C6R1BD05# #0.1pF GRM0222C1C6R1BD05# #0.25pF GRM0222C1C6R1DD05# #0.5pF GRM0222C1C6R1D05# #0.5pF GRM0222C1C6R1DD05# #0.5pF GRM0222C1C6R1DD05#					±0.5pF	GRM0222C1C5R7DD05#	
#0.25pF GRM0222C1C5R8CD05# #0.5pF GRM0222C1C5R8DD05# 5.9pF #0.05pF GRM0222C1C5R9WD05# #0.1pF GRM0222C1C5R9BD05# #0.25pF GRM0222C1C5R9DD05# #0.5pF GRM0222C1C5R9DD05# #0.5pF GRM0222C1C5R9DD05# #0.1pF GRM0222C1C6R0WD05# #0.25pF GRM0222C1C6R0BD05# #0.25pF GRM0222C1C6R0DD05# #0.5pF GRM0222C1C6R1WD05# #0.1pF GRM0222C1C6R1BD05# #0.1pF GRM0222C1C6R1BD05# #0.25pF GRM0222C1C6R1DD05# #0.5pF GRM0222C1C6R1DD05# #0.5pF GRM0222C1C6R1DD05# #0.5pF GRM0222C1C6R1DD05# #0.5pF GRM0222C1C6R1DD05# #0.5pF GRM0222C1C6R1DD05#				5.8pF	±0.05pF	GRM0222C1C5R8WD05#	
#0.5pF GRM0222C1C5R8DD05# 5.9pF #0.05pF GRM0222C1C5R9WD05# #0.1pF GRM0222C1C5R9BD05# #0.25pF GRM0222C1C5R9DD05# #0.5pF GRM0222C1C5R9DD05# #0.1pF GRM0222C1C6R0WD05# #0.1pF GRM0222C1C6R0BD05# #0.25pF GRM0222C1C6R0DD05# #0.5pF GRM0222C1C6R0DD05# #0.5pF GRM0222C1C6R1WD05# #0.1pF GRM0222C1C6R1BD05# #0.1pF GRM0222C1C6R1BD05# #0.25pF GRM0222C1C6R1DD05# #0.5pF GRM0222C1C6R1DD05# #0.5pF GRM0222C1C6R1DD05# #0.5pF GRM0222C1C6R1DD05# #0.5pF GRM0222C1C6R1DD05#					±0.1pF	GRM0222C1C5R8BD05#	
5.9pF ±0.05pF GRM0222C1C5R9WD05# ±0.1pF GRM0222C1C5R9BD05# ±0.25pF GRM0222C1C5R9DD05# ±0.5pF GRM0222C1C5R9DD05# 6.0pF ±0.05pF GRM0222C1C6R0WD05# ±0.1pF GRM0222C1C6R0BD05# ±0.25pF GRM0222C1C6R0DD05# ±0.5pF GRM0222C1C6R0DD05# ±0.5pF GRM0222C1C6R1WD05# ±0.1pF GRM0222C1C6R1BD05# ±0.1pF GRM0222C1C6R1BD05# ±0.25pF GRM0222C1C6R1DD05# ±0.25pF GRM0222C1C6R1DD05# ±0.5pF GRM0222C1C6R1DD05# ±0.5pF GRM0222C1C6R1DD05#					±0.25pF	GRM0222C1C5R8CD05#	
#0.1pF GRM0222C1C5R9BD05# #0.25pF GRM0222C1C5R9CD05# #0.5pF GRM0222C1C5R9DD05# 6.0pF #0.05pF GRM0222C1C6R0WD05# #0.1pF GRM0222C1C6R0BD05# #0.25pF GRM0222C1C6R0CD05# #0.5pF GRM0222C1C6R0DD05# #0.5pF GRM0222C1C6R1WD05# #0.1pF GRM0222C1C6R1BD05# #0.25pF GRM0222C1C6R1BD05# #0.25pF GRM0222C1C6R1DD05# #0.5pF GRM0222C1C6R1D05# #0.5pF GRM0222C1C6R1DD05# #0.5pF GRM0222C1C6R1DD05#					±0.5pF	GRM0222C1C5R8DD05#	
# ±0.25pF GRM0222C1C5R9CD05# # ±0.5pF GRM0222C1C5R9DD05# # ±0.05pF GRM0222C1C6R0WD05# # ±0.1pF GRM0222C1C6R0BD05# # ±0.25pF GRM0222C1C6R0CD05# # ±0.5pF GRM0222C1C6R0DD05# # ±0.05pF GRM0222C1C6R1WD05# # ±0.1pF GRM0222C1C6R1BD05# # ±0.25pF GRM0222C1C6R1CD05# # ±0.25pF GRM0222C1C6R1DD05# # ±0.5pF GRM0222C1C6R1DD05# # ±0.5pF GRM0222C1C6R1DD05# # ±0.5pF GRM0222C1C6R2WD05#				5.9pF	±0.05pF	GRM0222C1C5R9WD05#	
#0.5pF GRM0222C1C5R9DD05# 6.0pF #0.05pF GRM0222C1C6R0WD05# #0.1pF GRM0222C1C6R0BD05# #0.25pF GRM0222C1C6R0DD05# #0.5pF GRM0222C1C6R0DD05# #0.05pF GRM0222C1C6R1WD05# #0.1pF GRM0222C1C6R1BD05# #0.25pF GRM0222C1C6R1CD05# #0.5pF GRM0222C1C6R1DD05# #0.5pF GRM0222C1C6R1DD05# #0.5pF GRM0222C1C6R1DD05# #0.5pF GRM0222C1C6R1DD05#					±0.1pF	GRM0222C1C5R9BD05#	
6.0pF ±0.05pF GRM0222C1C6R0WD05# ±0.1pF GRM0222C1C6R0BD05# ±0.25pF GRM0222C1C6R0DD05# ±0.5pF GRM0222C1C6R0DD05# ±0.05pF GRM0222C1C6R1WD05# ±0.1pF GRM0222C1C6R1BD05# ±0.25pF GRM0222C1C6R1CD05# ±0.5pF GRM0222C1C6R1DD05# ±0.5pF GRM0222C1C6R1DD05#					±0.25pF	GRM0222C1C5R9CD05#	
#0.1pF GRM0222C1C6R0BD05# #0.25pF GRM0222C1C6R0CD05# #0.5pF GRM0222C1C6R0DD05# 6.1pF #0.05pF GRM0222C1C6R1WD05# #0.1pF GRM0222C1C6R1BD05# #0.25pF GRM0222C1C6R1CD05# #0.5pF GRM0222C1C6R1DD05# #0.5pF GRM0222C1C6R2WD05#					±0.5pF	GRM0222C1C5R9DD05#	
#0.25pF GRM0222C1C6R0CD05# #0.5pF GRM0222C1C6R0DD05# 6.1pF #0.05pF GRM0222C1C6R1WD05# #0.1pF GRM0222C1C6R1BD05# #0.25pF GRM0222C1C6R1CD05# #0.5pF GRM0222C1C6R1DD05# #0.5pF GRM0222C1C6R2WD05#				6.0pF	±0.05pF	GRM0222C1C6R0WD05#	
#0.5pF GRM0222C1C6R0DD05# 6.1pF #0.05pF GRM0222C1C6R1WD05# #0.1pF GRM0222C1C6R1BD05# #0.25pF GRM0222C1C6R1DD05# #0.5pF GRM0222C1C6R1DD05# #0.5pF GRM0222C1C6R2WD05#					±0.1pF	GRM0222C1C6R0BD05#	
6.1pF ±0.05pF GRM0222C1C6R1WD05# ±0.1pF GRM0222C1C6R1BD05# ±0.25pF GRM0222C1C6R1CD05# ±0.5pF GRM0222C1C6R1DD05# 6.2pF ±0.05pF GRM0222C1C6R2WD05#					±0.25pF	GRM0222C1C6R0CD05#	
±0.1pF					±0.5pF	GRM0222C1C6R0DD05#	
±0.25pF GRM0222C1C6R1CD05# ±0.5pF GRM0222C1C6R1DD05# 6.2pF ±0.05pF GRM0222C1C6R2WD05#				6.1pF	±0.05pF	GRM0222C1C6R1WD05#	
±0.5pF					±0.1pF	GRM0222C1C6R1BD05#	
6.2pF ±0.05pF GRM0222C1C6R2WD05#					±0.25pF	GRM0222C1C6R1CD05#	
					±0.5pF	GRM0222C1C6R1DD05#	
±0.1pF GRM0222C1C6R2BD05 #				6.2pF	±0.05pF	GRM0222C1C6R2WD05#	
					±0.1pF	GRM0222C1C6R2BD05#	

T max.	Rated Voltage	TC Code	Сар.	Tol.	Part Number
0.22mm	16Vdc	СН	6.2pF	±0.25pF	GRM0222C1C6R2CD05#
				±0.5pF	GRM0222C1C6R2DD05#
			6.3pF	±0.05pF	GRM0222C1C6R3WD05#
				0.001	±0.1pF
				±0.25pF	
				±0.5pF	GRM0222C1C6R3DD05#
			6.4pF	±0.05pF	
			0.4pi	-	
				±0.1pF	GRM0222C1C6R4BD05#
				±0.25pF	
				±0.5pF	GRM0222C1C6R4DD05#
			6.5pF	±0.05pF	
				±0.1pF	GRM0222C1C6R5BD05#
				±0.25pF	GRM0222C1C6R5CD05#
				±0.5pF	GRM0222C1C6R5DD05#
			6.6pF	±0.05pF	GRM0222C1C6R6WD05#
				±0.1pF	GRM0222C1C6R6BD05#
				±0.25pF	GRM0222C1C6R6CD05#
				±0.5pF	GRM0222C1C6R6DD05#
			6.7pF	±0.05pF	GRM0222C1C6R7WD05#
				±0.1pF	GRM0222C1C6R7BD05#
				±0.25pF	GRM0222C1C6R7CD05#
				±0.5pF	GRM0222C1C6R7DD05#
			6.8pF	±0.05pF	
			0.04	±0.1pF	GRM0222C1C6R8BD05#
			6.9pF	±0.25pF	GRM0222C1C6R8CD05#
				-	GRM0222C1C6R8DD05#
				±0.5pF	
				±0.05pF	GRM0222C1C6R9WD05#
				±0.1pF	GRM0222C1C6R9BD05#
				±0.25pF	
				±0.5pF	GRM0222C1C6R9DD05#
			7.0pF	±0.05pF	GRM0222C1C7R0WD05#
				±0.1pF	GRM0222C1C7R0BD05#
				±0.25pF	GRM0222C1C7R0CD05#
				±0.5pF	GRM0222C1C7R0DD05#
			7.1pF	±0.05pF	GRM0222C1C7R1WD05#
				±0.1pF	GRM0222C1C7R1BD05#
				±0.25pF	GRM0222C1C7R1CD05#
				±0.5pF	GRM0222C1C7R1DD05#
			7.2pF	±0.05pF	GRM0222C1C7R2WD05#
				±0.1pF	GRM0222C1C7R2BD05#
				±0.25pF	GRM0222C1C7R2CD05#
				±0.5pF	GRM0222C1C7R2DD05#
			7.3pF	±0.05pF	
			7.00.	±0.1pF	GRM0222C1C7R3BD05#
				±0.25pF	
			7 4	±0.5pF	GRM0222C1C7R3DD05#
			7.4pF	±0.05pF	GRM0222C1C7R4WD05#
				±0.1pF	GRM0222C1C7R4BD05#
				±0.25pF	GRM0222C1C7R4CD05#
				±0.5pF	GRM0222C1C7R4DD05#
			7.5pF	±0.05pF	GRM0222C1C7R5WD05#
				±0.1pF	GRM0222C1C7R5BD05#
				±0.25pF	GRM0222C1C7R5CD05#
				1	1

Т	Rated	тс	Con	Tol	Dort Number	
max.	Voltage		Сар.	Tol.	Part Number	
0.22mm	16Vdc	СН	7.6pF	±0.05pF	GRM0222C1C7R6WD05#	
				±0.1pF	GRM0222C1C7R6BD05#	
				±0.25pF	GRM0222C1C7R6CD05#	
				±0.5pF	GRM0222C1C7R6DD05#	
			7.7pF	±0.05pF	GRM0222C1C7R7WD05#	
				±0.1pF	GRM0222C1C7R7BD05#	
				±0.25pF	GRM0222C1C7R7CD05#	
				±0.5pF	GRM0222C1C7R7DD05#	
			7.8pF	±0.05pF	GRM0222C1C7R8WD05#	
				±0.1pF	GRM0222C1C7R8BD05#	
				±0.25pF	GRM0222C1C7R8CD05#	
				±0.5pF	GRM0222C1C7R8DD05#	
			7.9pF	±0.05pF	GRM0222C1C7R9WD05#	
				±0.1pF	GRM0222C1C7R9BD05#	
				±0.25pF	GRM0222C1C7R9CD05#	
				±0.5pF	GRM0222C1C7R9DD05#	
			8.0pF	±0.05pF	GRM0222C1C8R0WD05#	
				±0.1pF	GRM0222C1C8R0BD05#	
				±0.25pF	GRM0222C1C8R0CD05#	
			0.4.5	±0.5pF	GRM0222C1C8R0DD05#	
			8.1pF	±0.05pF	GRM0222C1C8R1WD05#	
				±0.1pF	GRM0222C1C8R1BD05#	
				±0.25pF	GRM0222C1C8R1CD05#	
			00.5	±0.5pF	GRM0222C1C8R1DD05#	
			8.2pF	±0.05pF	GRM0222C1C8R2WD05#	
				±0.1pF	GRM0222C1C8R2BD05#	
				±0.25pF	GRM0222C1C8R2CD05#	
			0.0-5	±0.5pF	GRM0222C1C8R2DD05#	
			8.3pF	±0.05pF	GRM0222C1C8R3WD05#	
				±0.1pF	GRM0222C1C8R3BD05#	
				±0.25pF	GRM0222C1C8R3CD05#	
			8.4pF	±0.5pF ±0.05pF	GRM0222C1C8R3DD05#	
			0.4pr	<u> </u>	GRM0222C1C8R4WD05#	
				±0.1pF	GRM0222C1C8R4BD05#	
				±0.25pF ±0.5pF	GRM0222C1C8R4CD05# GRM0222C1C8R4DD05#	
			0 EnE			
			8.5pF	±0.05pF	GRM0222C1C8R5WD05# GRM0222C1C8R5BD05#	
				±0.1pF	GRM0222C1C8R5CD05#	
				<u> </u>	GRM0222C1C8R5DD05#	
			8.6pF	±0.5pF ±0.05pF	GRM0222C1C8R6WD05#	
			υ.υμι	±0.05pF	GRM0222C1C8R6BD05#	
				±0.1pF ±0.25pF	GRM0222C1C8R6CD05#	
				±0.5pF	GRM0222C1C8R6DD05#	
			8.7pF	±0.05pF	GRM0222C1C8R7WD05#	
			0.7 pi	±0.03pi	GRM0222C1C8R7BD05#	
				±0.1pF ±0.25pF	GRM0222C1C8R7CD05#	
				±0.5pF	GRM0222C1C8R7DD05#	
			8.8pF	±0.05pF	GRM0222C1C8R8WD05#	
			J.Jp.	±0.1pF	GRM0222C1C8R8BD05#	
				±0.25pF	GRM0222C1C8R8CD05#	
				±0.5pF	GRM0222C1C8R8DD05#	
			8.9pF	±0.05pF	GRM0222C1C8R9WD05#	
			J.0pi	±0.03pi	GRM0222C1C8R9BD05#	
			Dort nun	nber # indic	I	



(→ **■** 0.4×0.2mm)

(/ 🗖 0	.4×0.21	11111)			
T max.	Rated Voltage	TC Code	Сар.	Tol.	Part Number
0.22mm	16Vdc	СН	8.9pF	±0.25pF	GRM0222C1C8R9CD05#
				±0.5pF	GRM0222C1C8R9DD05#
			9.0pF	±0.05pF	GRM0222C1C9R0WD05#
				±0.1pF	GRM0222C1C9R0BD05#
				±0.25pF	GRM0222C1C9R0CD05#
				±0.5pF	GRM0222C1C9R0DD05#
			9.1pF	±0.05pF	GRM0222C1C9R1WD05#
				±0.1pF	GRM0222C1C9R1BD05#
				±0.25pF	GRM0222C1C9R1CD05#
				±0.5pF	GRM0222C1C9R1DD05#
			9.2pF	±0.05pF	GRM0222C1C9R2WD05#
			·	±0.1pF	GRM0222C1C9R2BD05#
				-	GRM0222C1C9R2CD05#
				±0.5pF	GRM0222C1C9R2DD05#
			9.3pF	±0.05pF	GRM0222C1C9R3WD05#
			0.0рі	±0.1pF	GRM0222C1C9R3BD05#
				±0.1pi	GRM0222C1C9R3CD05#
				±0.25pF	GRM0222C1C9R3DD05#
			9.4pF		
			9.4pr	±0.05pF	GRM0222C1C9R4WD05# GRM0222C1C9R4BD05#
				±0.1pF	
			9.5pF	±0.25pF	
				±0.5pF	GRM0222C1C9R4DD05#
				±0.05pF	GRM0222C1C9R5WD05#
				±0.1pF	GRM0222C1C9R5BD05#
				±0.25pF	GRM0222C1C9R5CD05#
			0.6nE	±0.5pF	GRM0222C1C9R5DD05#
			9.6pF	±0.05pF	GRM0222C1C9R6WD05#
				±0.1pF	GRM0222C1C9R6BD05#
				±0.25pF	GRM0222C1C9R6CD05#
				±0.5pF	GRM0222C1C9R6DD05#
			9.7pF	±0.05pF	GRM0222C1C9R7WD05#
				±0.1pF	GRM0222C1C9R7BD05#
				±0.25pF	GRM0222C1C9R7CD05#
				±0.5pF	GRM0222C1C9R7DD05#
			9.8pF	±0.05pF	GRM0222C1C9R8WD05#
				±0.1pF	GRM0222C1C9R8BD05#
				±0.25pF	GRM0222C1C9R8CD05#
				±0.5pF	GRM0222C1C9R8DD05#
			9.9pF	±0.05pF	GRM0222C1C9R9WD05#
				±0.1pF	GRM0222C1C9R9BD05#
				±0.25pF	GRM0222C1C9R9CD05#
				±0.5pF	GRM0222C1C9R9DD05#
			10pF	±2%	GRM0222C1C100GD05#
				±5%	GRM0222C1C100JD05#
			12pF	±2%	GRM0222C1C120GD05#
				±5%	GRM0222C1C120JD05#
			15pF	±2%	GRM0222C1C150GD05#
				±5%	GRM0222C1C150JD05#
			18pF	±2%	GRM0222C1C180GD05#
				±5%	GRM0222C1C180JD05#
			22pF	±2%	GRM0222C1C220GD05#
			-	±5%	GRM0222C1C220JD05#
			27pF	±2%	GRM0222C1C270GD05#
			•	±5%	GRM0222C1C270JD05#

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number		
0.22mm	16Vdc	СН	33pF	±2%	GRM0222C1C330GD05#		
				±5%	GRM0222C1C330JD05#		
			39pF	±2%	GRM0222C1C390GD05#		
				±5%	GRM0222C1C390JD05#		
			47pF	±2%	GRM0222C1C470GD05#		
				±5%	GRM0222C1C470JD05#		
	10Vdc	COG	56pF	±2%	GRM0225C1A560GD05#		
				±5%	GRM0225C1A560JD05#		
			68pF	±2%	GRM0225C1A680GD05#		
				±5%	GRM0225C1A680JD05#		
			82pF	±2%	GRM0225C1A820GD05#		
							±5%
			100pF	±2%	GRM0225C1A101GD05#		
				±5%	GRM0225C1A101JD05#		
		СН	56pF	±2%	GRM0222C1A560GD05#		
				±5%	GRM0222C1A560JD05#		
			68pF	±2%	GRM0222C1A680GD05#		
				±5%	GRM0222C1A680JD05#		
			82pF	±2%	GRM0222C1A820GD05#		
				±5%	GRM0222C1A820JD05#		
			100pF	±2%	GRM0222C1A101GD05#		
				±5%	GRM0222C1A101JD05#		

■ 0.6×0.3mm Ultra-

T max.	Rated Voltage	TC Code	Сар.	Tol.	Part Number
0.33mm	50Vdc	COG	0.1pF	±0.05pF	GRM0335C1HR10WA01#
				±0.1pF	GRM0335C1HR10BA01#
			0.2pF	±0.05pF	GRM0335C1HR20WA01#
				±0.1pF	GRM0335C1HR20BA01#
			0.3pF	±0.05pF	GRM0335C1HR30WA01#
				±0.1pF	GRM0335C1HR30BA01#
			0.4pF	±0.05pF	GRM0335C1HR40WA01#
				±0.1pF	GRM0335C1HR40BA01#
			0.5pF	±0.05pF	GRM0335C1HR50WA01#
				±0.1pF	GRM0335C1HR50BA01#
			0.6pF	±0.05pF	GRM0335C1HR60WA01#
				±0.1pF	GRM0335C1HR60BA01#
			0.7pF	±0.05pF	GRM0335C1HR70WA01#
				±0.1pF	GRM0335C1HR70BA01#
			0.8pF	±0.05pF	GRM0335C1HR80WA01#
				±0.1pF	GRM0335C1HR80BA01#
			0.9pF	±0.05pF	GRM0335C1HR90WA01#
				±0.1pF	GRM0335C1HR90BA01#
			1.0pF	±0.05pF	GRM0335C1H1R0WA01#
				±0.1pF	GRM0335C1H1R0BA01#
				±0.25pF	GRM0335C1H1R0CA01#
			1.1pF	±0.05pF	GRM0335C1H1R1WA01#
				±0.1pF	GRM0335C1H1R1BA01#
				±0.25pF	GRM0335C1H1R1CA01#
			1.2pF	±0.05pF	GRM0335C1H1R2WA01#
				±0.1pF	GRM0335C1H1R2BA01#
				±0.25pF	GRM0335C1H1R2CA01#

Part number # indicates the package specification code.



T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number
0.33mm	50Vdc	COG	1.3pF	±0.05pF	GRM0335C1H1R3WA01#
				±0.1pF	GRM0335C1H1R3BA01#
				±0.25pF	GRM0335C1H1R3CA01#
			1.4pF	±0.05pF	GRM0335C1H1R4WA01#
				±0.1pF	GRM0335C1H1R4BA01#
				±0.25pF	GRM0335C1H1R4CA01#
			1.5pF	±0.05pF	GRM0335C1H1R5WA01#
				±0.1pF	GRM0335C1H1R5BA01#
				±0.25pF	GRM0335C1H1R5CA01#
			1.6pF	±0.05pF	GRM0335C1H1R6WA01#
			т.орг		
				±0.1pF	GRM0335C1H1R6BA01#
				±0.25pF	GRM0335C1H1R6CA01#
			1.7pF	±0.05pF	GRM0335C1H1R7WA01#
				±0.1pF	GRM0335C1H1R7BA01#
				±0.25pF	GRM0335C1H1R7CA01#
			1.8pF	±0.05pF	GRM0335C1H1R8WA01#
				±0.1pF	GRM0335C1H1R8BA01#
				±0.25pF	GRM0335C1H1R8CA01#
			1.9pF	±0.05pF	GRM0335C1H1R9WA01#
				±0.1pF	GRM0335C1H1R9BA01#
				±0.25pF	GRM0335C1H1R9CA01#
			2.0pF	±0.05pF	GRM0335C1H2R0WA01#
			2.1pF 2.2pF	±0.1pF	GRM0335C1H2R0BA01#
				±0.25pF	GRM0335C1H2R0CA01#
				±0.05pF	GRM0335C1H2R1WA01#
				±0.1pF	GRM0335C1H2R1BA01#
				±0.25pF	GRM0335C1H2R1CA01#
				±0.05pF	GRM0335C1H2R2WA01#
				-	
				±0.1pF	GRM0335C1H2R2BA01#
			00.5	±0.25pF	GRM0335C1H2R2CA01#
			2.3pF	±0.05pF	GRM0335C1H2R3WA01#
				±0.1pF	GRM0335C1H2R3BA01#
				±0.25pF	GRM0335C1H2R3CA01#
			2.4pF	±0.05pF	GRM0335C1H2R4WA01#
				±0.1pF	GRM0335C1H2R4BA01#
				±0.25pF	GRM0335C1H2R4CA01#
			2.5pF	±0.05pF	GRM0335C1H2R5WA01#
				±0.1pF	GRM0335C1H2R5BA01#
				±0.25pF	GRM0335C1H2R5CA01#
			2.6pF	±0.05pF	GRM0335C1H2R6WA01#
				±0.1pF	GRM0335C1H2R6BA01#
				±0.25pF	GRM0335C1H2R6CA01#
			2.7pF	±0.05pF	GRM0335C1H2R7WA01#
				±0.1pF	GRM0335C1H2R7BA01#
				±0.25pF	GRM0335C1H2R7CA01#
			2.8pF	±0.05pF	GRM0335C1H2R8WA01#
			opi	±0.1pF	GRM0335C1H2R8BA01#
			0.0-5	±0.25pF	GRM0335C1H2R8CA01#
			2.9pF	±0.05pF	GRM0335C1H2R9WA01#
				±0.1pF	GRM0335C1H2R9BA01#
				±0.25pF	GRM0335C1H2R9CA01#
			3.0pF	±0.05pF	GRM0335C1H3R0WA01#
				±0.1pF	GRM0335C1H3R0BA01#

Max. Voltage Code Cap. Tol. Part Number	т	Potod	TC				
### 1.0.1pF GRM0335C1H3R1BA01# # 10.25pF GRM0335C1H3R2MA01# # 10.1pF GRM0335C1H3R2MA01# # 10.1pF GRM0335C1H3R3WA01# # 10.05pF GRM0335C1H3R3WA01# # 10.1pF GRM0335C1H3R3WA01# # 10.1pF GRM0335C1H3R3WA01# # 10.25pF GRM0335C1H3R3PA01# # 10.25pF GRM0335C1H3R3PA01# # 10.25pF GRM0335C1HAR0M01#	max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number	
#0.25pF GRM0335C1H3R1CA01# #0.1pF GRM0335C1H3R2WA01# #0.25pF GRM0335C1H3R3BWA01# #0.25pF GRM0335C1H3R3BWA01# #0.25pF GRM0335C1H3R3BWA01# #0.25pF GRM0335C1H3R3BWA01# #0.25pF GRM0335C1H3R3BWA01# #0.25pF GRM0335C1H3R3BWA01# #0.1pF GRM0335C1H3R3BWA01# #0.1pF GRM0335C1H3R3BWA01# #0.1pF GRM0335C1H3R3BWA01# #0.25pF GRM0335C1H3R3BWA01# #0.25pF GRM0335C1H3R3BWA01# #0.25pF GRM0335C1H3R3BWA01# #0.1pF GRM0335C1H3R3BWA01# #0.1pF GRM0335C1H3R3BWA01# #0.1pF GRM0335C1H3R3BWA01# #0.1pF GRM0335C1H3R3BWA01# #0.25pF GRM0335C1H3R0A01# #0.25pF GRM0335C1H4R0WA01# #0.1pF GRM0335C1H4R0WA01# #0.1pF GRM0335C1H4R0WA01# #0.1pF GRM0335C1H4R3WA01# #0.25pF GRM0335C1H4R3WA01# #0.1pF GRM0335C1H4R3BA01# #0.1pF GRM0335C1H4R3BA01# #0.1pF GRM0335C1H4R3WA01# #0.1	0.33mm	50Vdc	COG	3.1pF	±0.05pF	GRM0335C1H3R1WA01#	
3.2pF					±0.1pF	GRM0335C1H3R1BA01#	
# 0.1pF GRM0335C1H3R2BA01# ±0.25pF GRM0335C1H3R3WA01# ±0.1pF GRM0335C1H3R3BA01# ±0.25pF GRM0335C1H3R3BA01# ±0.25pF GRM0335C1H3R3BA01# ±0.25pF GRM0335C1H3R3BA01# ±0.25pF GRM0335C1H3R5BA01# ±0.25pF GRM0335C1H3R5BA01# ±0.25pF GRM0335C1H3R5BA01# ±0.25pF GRM0335C1H3R5BA01# ±0.25pF GRM0335C1H3R5BA01# ±0.25pF GRM0335C1H3R5BA01# ±0.25pF GRM0335C1H3R6CA01# ±0.25pF GRM0335C1H3R6CA01# ±0.25pF GRM0335C1H3R7BA01# ±0.25pF GRM0335C1H3R7BA01# ±0.25pF GRM0335C1H3R7CA01# ±0.25pF GRM0335C1H3R8WA01# ±0.25pF GRM0335C1H3R8WA01# ±0.25pF GRM0335C1H3R8WA01# ±0.25pF GRM0335C1H3R8WA01# ±0.25pF GRM0335C1H3R9WA01# ±0.25pF GRM0335C1H3R9WA01# ±0.25pF GRM0335C1H4R0WA01# ±					±0.25pF	GRM0335C1H3R1CA01#	
#0.25pF GRM0335C1H3R3WA01# ±0.25pF GRM0335C1H3R3WA01# ±0.25pF GRM0335C1H3R3WA01# ±0.25pF GRM0335C1H3R3CA01# ±0.25pF GRM0335C1H3R3CA01# ±0.25pF GRM0335C1H3R3CA01# ±0.25pF GRM0335C1H3R5WA01# ±0.25pF GRM0335C1H3R5WA01# ±0.25pF GRM0335C1H3R5WA01# ±0.25pF GRM0335C1H3R5WA01# ±0.25pF GRM0335C1H3R5WA01# ±0.25pF GRM0335C1H3R5WA01# ±0.25pF GRM0335C1H3R6WA01# ±0.25pF GRM0335C1H4R0WA01# ±0.25pF GRM0335C1H4R2WA01# ±0.25pF GRM0335C1H4R2WA01# ±0.25pF GRM0335C1H4R2WA01# ±0.25pF GRM0335C1H4R3BA01# ±0.25pF GRM0335C1H4R6BA01#				3.2pF	±0.05pF	GRM0335C1H3R2WA01#	
3.3pF ±0.05pF GRM0335C1H3R3WA01# ±0.1pF GRM0335C1H3R3BA01# ±0.5pF GRM0335C1H3R4WA01# ±0.5pF GRM0335C1H3R4WA01# ±0.25pF GRM0335C1H3R4WA01# ±0.25pF GRM0335C1H3R5WA01# ±0.25pF GRM0335C1H3R5WA01# ±0.25pF GRM0335C1H3R5WA01# ±0.25pF GRM0335C1H3R5WA01# ±0.25pF GRM0335C1H3R6WA01# ±0.25pF GRM0335C1H3R8WA01# ±0.25pF GRM0335C1H3R9WA01# ±0.25pF GRM0335C1H3R9WA01# ±0.25pF GRM0335C1H3R9WA01# ±0.25pF GRM0335C1H3R9WA01# ±0.25pF GRM0335C1H3R0WA01# ±0.25pF GRM0335C1H3R0WA01# ±0.25pF GRM0335C1H3R0WA01# ±0.25pF GRM0335C1H4R0WA01# ±0.25pF GRM0335C1H					±0.1pF	GRM0335C1H3R2BA01#	
#0.1pF GRM0335C1H3R3BA01# #0.25pF GRM0335C1H3R4WA01# #0.1pF GRM0335C1H3R4WA01# #0.1pF GRM0335C1H3R4WA01# #0.25pF GRM0335C1H3R5WA01# #0.1pF GRM0335C1H3R5WA01# #0.1pF GRM0335C1H3R5WA01# #0.25pF GRM0335C1H3R5WA01# #0.25pF GRM0335C1H3R5WA01# #0.25pF GRM0335C1H3R6WA01# #0.25pF GRM0335C1H3R6WA01# #0.25pF GRM0335C1H3R6WA01# #0.25pF GRM0335C1H3R7WA01# #0.25pF GRM0335C1H3R7WA01# #0.25pF GRM0335C1H3R7WA01# #0.1pF GRM0335C1H3R6WA01# #0.25pF GRM0335C1H3R7WA01# #0.1pF GRM0335C1H3R6WA01# #0.25pF GRM0335C1H3R9WA01# #0.1pF GRM0335C1H3R9WA01# #0.25pF GRM0335C1H3R9WA01# #0.25pF GRM0335C1H4R0WA01# #0.1pF GRM0335C1H4R0WA01# #0.1pF GRM0335C1H4R0WA01# #0.1pF GRM0335C1H4R0WA01# #0.25pF GRM0335C1H4R3WA01# #0.25pF GRM0335C1H4R6WA01# #0.25					±0.25pF	GRM0335C1H3R2CA01#	
#0.25pF GRM0335C1H3R3CA01# #0.1pF GRM0335C1H3R4WA01# #0.25pF GRM0335C1H3R5WA01# #0.25pF GRM0335C1H3R5WA01# #0.1pF GRM0335C1H3R5WA01# #0.25pF GRM0335C1H3R5WA01# #0.25pF GRM0335C1H3R5WA01# #0.25pF GRM0335C1H3R5WA01# #0.25pF GRM0335C1H3R5WA01# #0.25pF GRM0335C1H3R6BA01# #0.25pF GRM0335C1H3R6BA01# #0.25pF GRM0335C1H3R7WA01# #0.1pF GRM0335C1H3R7WA01# #0.25pF GRM0335C1H3R7CA01# #0.1pF GRM0335C1H3R8WA01# #0.25pF GRM0335C1H3R8WA01# #0.25pF GRM0335C1H3R8WA01# #0.25pF GRM0335C1H3R9WA01# #0.25pF GRM0335C1H3R9WA01# #0.25pF GRM0335C1H3R9WA01# #0.25pF GRM0335C1H3R9WA01# #0.25pF GRM0335C1H4R0BA01# #0.25pF GRM0335C1H4R3BA01# #0.25pF GRM0335C1H4R6WA01#			3.3pF	±0.05pF	GRM0335C1H3R3WA01#		
3.4pF					±0.1pF	GRM0335C1H3R3BA01#	
#0.1pF GRM0335C1H3R4BA01# #0.25pF GRM0335C1H3R5CA01# #0.1pF GRM0335C1H3R6CA01# #0.25pF GRM0335C1H3R6CA01# #0.25pF GRM0335C1H3R6CA01# #0.25pF GRM0335C1H3R6CA01# #0.25pF GRM0335C1H3R6CA01# #0.1pF GRM0335C1H3R6CA01# #0.25pF GRM0335C1H3R6CA01# #0.1pF GRM0335C1H3R6CA01# #0.1pF GRM0335C1H3R6CA01# #0.1pF GRM0335C1H3R6CA01# #0.1pF GRM0335C1H3R6CA01# #0.1pF GRM0335C1H3R8CA01# #0.25pF GRM0335C1H3R8CA01# #0.25pF GRM0335C1H3R9WA01# #0.25pF GRM0335C1H3R9CA01# #0.1pF GRM0335C1H3R9CA01# #0.1pF GRM0335C1H3R9CA01# #0.1pF GRM0335C1H3R9CA01# #0.25pF GRM0335C1H3R9CA01# #0.1pF GRM0335C1H3R0CA01# #0.1pF GRM0335C1H4R0WA01# #0.25pF GRM0335C1H4R0WA01# #0.1pF GRM0335C1H4R0CA01# #0.1pF GRM0335C1H4R0CA01# #0.1pF GRM0335C1H4R0CA01# #0.1pF GRM0335C1H4R0CA01# #0.1pF GRM0335C1H4R0CA01# #0.1pF GRM0335C1H4R0CA01# #0.1pF GRM0335C1H4R3CA01# #0.1pF GRM0335C1H4R3CA01# #0.25pF GRM0335C1H4R4CA01# #0.25pF GRM0335C1H4R4CA01# #0.25pF GRM0335C1H4R6CA01# #0.25pF GRM0335C1H4R6A01# #0.25pF GRM0335C1H					±0.25pF	GRM0335C1H3R3CA01#	
#0.25pF GRM0335C1H3R4CA01# #0.1pF GRM0335C1H3R5WA01# #0.25pF GRM0335C1H3R5WA01# #0.25pF GRM0335C1H3R5WA01# #0.25pF GRM0335C1H3R6WA01# #0.25pF GRM0335C1H3R6WA01# #0.25pF GRM0335C1H3R6WA01# #0.1pF GRM0335C1H3R6WA01# #0.25pF GRM0335C1H3R6WA01# #0.25pF GRM0335C1H3R6WA01# #0.25pF GRM0335C1H3R6WA01# #0.1pF GRM0335C1H3R6WA01# #0.1pF GRM0335C1H3R8WA01# #0.1pF GRM0335C1H3R8WA01# #0.25pF GRM0335C1H3R8WA01# #0.1pF GRM0335C1H3R8WA01# #0.1pF GRM0335C1H3R8WA01# #0.1pF GRM0335C1H3R9WA01# #0.1pF GRM0335C1H3R9WA01# #0.1pF GRM0335C1H4R0WA01# #0.1pF GRM0335C1H4R0WA01# #0.1pF GRM0335C1H4R0WA01# #0.1pF GRM0335C1H4R0WA01# #0.25pF GRM0335C1H4R1WA01# #0.25pF GRM0335C1H4R1WA01# #0.25pF GRM0335C1H4R1WA01# #0.1pF GRM0335C1H4R2WA01# #0.1pF GRM0335C1H4R2WA01# #0.1pF GRM0335C1H4R2WA01# #0.1pF GRM0335C1H4R2WA01# #0.1pF GRM0335C1H4R2WA01# #0.1pF GRM0335C1H4R3WA01# #0.1pF GRM0335C1H4R3WA01# #0.1pF GRM0335C1H4R3WA01# #0.25pF GRM0335C1H4R3WA01# #0.25pF GRM0335C1H4R3WA01# #0.25pF GRM0335C1H4R3WA01# #0.25pF GRM0335C1H4R3WA01# #0.25pF GRM0335C1H4R3WA01# #0.25pF GRM0335C1H4R6WA01# #0.25pF GRM0335				3.4pF	±0.05pF	GRM0335C1H3R4WA01#	
3.5pF					±0.1pF	GRM0335C1H3R4BA01#	
#0.1pF #0.25pF #0.05pF				±0.25pF	GRM0335C1H3R4CA01#		
#0.25pF GRM0335C1H3R5CA01# #0.05pF GRM0335C1H3R6WA01# #0.25pF GRM0335C1H3R6WA01# #0.25pF GRM0335C1H3R6CA01# #0.15pF GRM0335C1H3R7WA01# #0.25pF GRM0335C1H3R7WA01# #0.15pF GRM0335C1H3R8WA01# #0.15pF GRM0335C1H3R8WA01# #0.15pF GRM0335C1H3R8WA01# #0.15pF GRM0335C1H3R8WA01# #0.25pF GRM0335C1H3R8WA01# #0.25pF GRM0335C1H3R9WA01# #0.25pF GRM0335C1H3R9WA01# #0.25pF GRM0335C1H4R0WA01# #0.15pF GRM0335C1H4R0WA01# #0.15pF GRM0335C1H4R0WA01# #0.15pF GRM0335C1H4R0WA01# #0.15pF GRM0335C1H4R0WA01# #0.25pF GRM0335C1H4R0				3.5pF	±0.05pF	GRM0335C1H3R5WA01#	
3.6pF ±0.05pF GRM0335C1H3R6WA01# ±0.25pF GRM0335C1H3R6BA01# ±0.25pF GRM0335C1H3R7WA01# ±0.10pF GRM0335C1H3R7WA01# ±0.25pF GRM0335C1H3R7WA01# ±0.25pF GRM0335C1H3R8WA01# ±0.25pF GRM0335C1H3R8WA01# ±0.25pF GRM0335C1H3R8WA01# ±0.25pF GRM0335C1H3R8WA01# ±0.25pF GRM0335C1H3R9WA01# ±0.25pF GRM0335C1H3R9WA01# ±0.10pF GRM0335C1H4R0WA01# ±0.10pF GRM0335C1H4R0WA01# ±0.10pF GRM0335C1H4R0WA01# ±0.10pF GRM0335C1H4R0WA01# ±0.10pF GRM0335C1H4R1WA01# ±0.10pF GRM0335C1H4R1WA01# ±0.10pF GRM0335C1H4R1WA01# ±0.10pF GRM0335C1H4R1WA01# ±0.10pF GRM0335C1H4R2WA01# ±0.25pF GRM0335C1H4R2WA01# ±0.25pF GRM0335C1H4R2WA01# ±0.25pF GRM0335C1H4R2WA01# ±0.25pF GRM0335C1H4R3WA01# ±0.25pF GRM0335C1H4R3WA01# ±0.25pF GRM0335C1H4R3WA01# ±0.25pF GRM0335C1H4R4WA01# ±0.25pF GRM0335C1H4R6WA01# ±0.25pF GRM0335C1H4R8WA01# ±0.25pF GRM0335					±0.1pF	GRM0335C1H3R5BA01#	
#0.1pF GRM0335C1H3R6BA01# #0.25pF GRM0335C1H3R6CA01# #0.1pF GRM0335C1H3R7WA01# #0.25pF GRM0335C1H3R7WA01# #0.25pF GRM0335C1H3R7WA01# #0.25pF GRM0335C1H3R8WA01# #0.25pF GRM0335C1H3R8WA01# #0.25pF GRM0335C1H3R8WA01# #0.25pF GRM0335C1H3R9WA01# #0.25pF GRM0335C1H3R9WA01# #0.25pF GRM0335C1H3R9WA01# #0.1pF GRM0335C1H4R0WA01# #0.25pF GRM0335C1H4R0WA01# #0.1pF GRM0335C1H4R0WA01# #0.1pF GRM0335C1H4R1WA01# #0.1pF GRM0335C1H4R1WA01# #0.1pF GRM0335C1H4R1WA01# #0.1pF GRM0335C1H4R1WA01# #0.25pF GRM0335C1H4R2WA01# #0.25pF GRM0335C1H4R2WA01# #0.25pF GRM0335C1H4R2WA01# #0.25pF GRM0335C1H4R2WA01# #0.25pF GRM0335C1H4R3WA01# #0.25pF GRM0335C1H4R3WA01# #0.25pF GRM0335C1H4R3WA01# #0.25pF GRM0335C1H4R3WA01# #0.25pF GRM0335C1H4R3WA01# #0.25pF GRM0335C1H4R4WA01# #0.25pF GRM0335C1H4R6WA01# #0.25pF GRM0335C1H4R8WA01# #0					±0.25pF	GRM0335C1H3R5CA01#	
#0.25pF GRM0335C1H3R6CA01# #0.1pF GRM0335C1H3R7WA01# #0.25pF GRM0335C1H3R7WA01# #0.25pF GRM0335C1H3R7WA01# #0.25pF GRM0335C1H3R8WA01# #0.25pF GRM0335C1H3R8WA01# #0.25pF GRM0335C1H3R8WA01# #0.25pF GRM0335C1H3R8WA01# #0.25pF GRM0335C1H3R9WA01# #0.25pF GRM0335C1H3R9WA01# #0.25pF GRM0335C1H3R9WA01# #0.25pF GRM0335C1H4R0WA01# #0.25pF GRM0335C1H4R0WA01# #0.25pF GRM0335C1H4R0WA01# #0.25pF GRM0335C1H4R0WA01# #0.25pF GRM0335C1H4R1WA01# #0.25pF GRM0335C1H4R1WA01# #0.25pF GRM0335C1H4R2WA01# #0.25pF GRM0335C1H4R2WA01# #0.25pF GRM0335C1H4R2WA01# #0.25pF GRM0335C1H4R3WA01# #0.25pF GRM0335C1H4R3WA01# #0.25pF GRM0335C1H4R3WA01# #0.25pF GRM0335C1H4R3WA01# #0.25pF GRM0335C1H4R3WA01# #0.25pF GRM0335C1H4R4WA01# #0.25pF GRM0335C1H4R4WA01# #0.25pF GRM0335C1H4R4WA01# #0.25pF GRM0335C1H4R5WA01# #0.25pF GRM0335C1H4R5WA01# #0.25pF GRM0335C1H4R5WA01# #0.25pF GRM0335C1H4R6WA01# #0.25pF GRM0335C1H4R7WA01# #0.25pF GRM0335C1H4R8WA01#				3.6pF	±0.05pF	GRM0335C1H3R6WA01#	
3.7pF					±0.1pF	GRM0335C1H3R6BA01#	
#0.1pF GRM0335C1H3R7BA01# #0.25pF GRM0335C1H3R8WA01# #0.25pF GRM0335C1H3R8WA01# #0.25pF GRM0335C1H3R9WA01# #0.25pF GRM0335C1H3R9WA01# #0.25pF GRM0335C1H3R9WA01# #0.25pF GRM0335C1H3R9WA01# #0.1pF GRM0335C1H3R9WA01# #0.25pF GRM0335C1H4R0WA01# #0.25pF GRM0335C1H4R0WA01# #0.25pF GRM0335C1H4R0WA01# #0.25pF GRM0335C1H4R0WA01# #0.25pF GRM0335C1H4R1WA01# #0.25pF GRM0335C1H4R1WA01# #0.25pF GRM0335C1H4R2WA01# #0.25pF GRM0335C1H4R2WA01# #0.25pF GRM0335C1H4R2WA01# #0.25pF GRM0335C1H4R2WA01# #0.25pF GRM0335C1H4R3WA01# #0.25pF GRM0335C1H4R3WA01# #0.25pF GRM0335C1H4R3WA01# #0.25pF GRM0335C1H4R3WA01# #0.25pF GRM0335C1H4R4WA01# #0.25pF GRM0335C1H4R4WA01# #0.25pF GRM0335C1H4R4WA01# #0.25pF GRM0335C1H4R4WA01# #0.25pF GRM0335C1H4R5WA01# #0.25pF GRM0335C1H4R5WA01# #0.25pF GRM0335C1H4R5WA01# #0.25pF GRM0335C1H4R5WA01# #0.25pF GRM0335C1H4R6WA01# #0.25pF GRM0335C1H4R7WA01# #0.25pF GRM0335C1H4R8WA01# #0.25pF GRM0335C1H4R8WA					±0.25pF	GRM0335C1H3R6CA01#	
### #### #############################				3.7pF	±0.05pF	GRM0335C1H3R7WA01#	
3.8pF ±0.05pF GRM0335C1H3R8WA01# ±0.25pF GRM0335C1H3R8WA01# ±0.25pF GRM0335C1H3R9WA01# ±0.1pF GRM0335C1H3R9WA01# ±0.25pF GRM0335C1H3R9WA01# ±0.25pF GRM0335C1H4R0WA01# ±0.25pF GRM0335C1H4R0WA01# ±0.25pF GRM0335C1H4R0WA01# ±0.1pF GRM0335C1H4R0WA01# ±0.25pF GRM0335C1H4R0WA01# ±0.25pF GRM0335C1H4R0WA01# ±0.25pF GRM0335C1H4R0WA01# ±0.25pF GRM0335C1H4R0WA01# ±0.25pF GRM0335C1H4R2WA01# ±0.25pF GRM0335C1H4R2WA01# ±0.25pF GRM0335C1H4R2WA01# ±0.25pF GRM0335C1H4R3WA01# ±0.25pF GRM0335C1H4R3WA01# ±0.25pF GRM0335C1H4R3WA01# ±0.25pF GRM0335C1H4R4WA01# ±0.25pF GRM0335C1H4R4WA01# ±0.25pF GRM0335C1H4R4WA01# ±0.25pF GRM0335C1H4R5WA01# ±0.25pF GRM0335C1H4R5WA01# ±0.25pF GRM0335C1H4R6WA01# ±0.25pF GRM0335C1H4R7WA01# ±0.25pF GRM0335C1H4R6WA01# ±0.25pF GRM0335C1H4R7WA01# ±0.25pF GRM0335C1H4R8WA01# ±0.25pF GRM0335C1					±0.1pF	GRM0335C1H3R7BA01#	
#0.1pF GRM0335C1H3R8BA01# #0.25pF GRM0335C1H3R9WA01# #0.25pF GRM0335C1H3R9WA01# #0.25pF GRM0335C1H3R9WA01# #0.25pF GRM0335C1H4R0WA01# #0.1pF GRM0335C1H4R0WA01# #0.25pF GRM0335C1H4R0WA01# #0.25pF GRM0335C1H4R0WA01# #0.25pF GRM0335C1H4R1WA01# #0.25pF GRM0335C1H4R1WA01# #0.25pF GRM0335C1H4R1WA01# #0.25pF GRM0335C1H4R2WA01# #0.25pF GRM0335C1H4R2WA01# #0.25pF GRM0335C1H4R3WA01# #0.25pF GRM0335C1H4R3WA01# #0.25pF GRM0335C1H4R3WA01# #0.25pF GRM0335C1H4R3WA01# #0.25pF GRM0335C1H4R3WA01# #0.25pF GRM0335C1H4R4WA01# #0.25pF GRM0335C1H4R4WA01# #0.25pF GRM0335C1H4R4WA01# #0.25pF GRM0335C1H4R4WA01# #0.25pF GRM0335C1H4R5WA01# #0.25pF GRM0335C1H4R6WA01# #0.25pF GRM0335C1H4R7WA01# #0.25pF GRM0335C1H4R8WA01#					±0.25pF	GRM0335C1H3R7CA01#	
### ### ##############################				3.8pF	±0.05pF	GRM0335C1H3R8WA01#	
3.9pF ±0.05pF GRM0335C1H3R9WA01# ±0.25pF GRM0335C1H3R9BA01# ±0.25pF GRM0335C1H4R0WA01# ±0.05pF GRM0335C1H4R0WA01# ±0.25pF GRM0335C1H4R0WA01# ±0.25pF GRM0335C1H4R0WA01# ±0.25pF GRM0335C1H4R1WA01# ±0.25pF GRM0335C1H4R1WA01# ±0.25pF GRM0335C1H4R2WA01# ±0.25pF GRM0335C1H4R2WA01# ±0.25pF GRM0335C1H4R2WA01# ±0.25pF GRM0335C1H4R2WA01# ±0.25pF GRM0335C1H4R3WA01# ±0.25pF GRM0335C1H4R3WA01# ±0.25pF GRM0335C1H4R3WA01# ±0.25pF GRM0335C1H4R3WA01# ±0.25pF GRM0335C1H4R4WA01# ±0.25pF GRM0335C1H4R4WA01# ±0.25pF GRM0335C1H4R4WA01# ±0.25pF GRM0335C1H4R5WA01# ±0.25pF GRM0335C1H4R5WA01# ±0.25pF GRM0335C1H4R5WA01# ±0.25pF GRM0335C1H4R5WA01# ±0.25pF GRM0335C1H4R6WA01# ±0.25pF GRM0335C1H4R6WA01# ±0.25pF GRM0335C1H4R6WA01# ±0.25pF GRM0335C1H4R6WA01# ±0.25pF GRM0335C1H4R6WA01# ±0.25pF GRM0335C1H4R6WA01# ±0.25pF GRM0335C1H4R7WA01# ±0.25pF GRM0335C1H4R8WA01# ±0.50pF GRM0335C1H4R8WA01#					±0.1pF	GRM0335C1H3R8BA01#	
#0.1pF GRM0335C1H3R9BA01# #0.25pF GRM0335C1H3R9CA01# #0.05pF GRM0335C1H4R0WA01# #0.1pF GRM0335C1H4R0BA01# #0.25pF GRM0335C1H4R0CA01# #0.1pF GRM0335C1H4R1WA01# #0.1pF GRM0335C1H4R1WA01# #0.25pF GRM0335C1H4R1BA01# #0.25pF GRM0335C1H4R2WA01# #0.25pF GRM0335C1H4R2WA01# #0.25pF GRM0335C1H4R2CA01# #0.25pF GRM0335C1H4R3WA01# #0.1pF GRM0335C1H4R3WA01# #0.25pF GRM0335C1H4R3WA01# #0.1pF GRM0335C1H4R3WA01# #0.25pF GRM0335C1H4R3CA01# #0.1pF GRM0335C1H4R4WA01# #0.1pF GRM0335C1H4R4WA01# #0.1pF GRM0335C1H4R4WA01# #0.1pF GRM0335C1H4R5WA01# #0.25pF GRM0335C1H4R5WA01# #0.1pF GRM0335C1H4R5WA01# #0.1pF GRM0335C1H4R6A01# #0.25pF GRM0335C1H4R6A01# #0.25pF GRM0335C1H4R6WA01# #0.25pF GRM0335C1H4R6A01# #0.25pF GRM0335C1H4R7WA01# #0.1pF GRM0335C1H4R7WA01# #0.1pF GRM0335C1H4R7BA01# #0.25pF GRM0335C1H4R7BA01# #0.25pF GRM0335C1H4R7BA01# #0.25pF GRM0335C1H4R7WA01# #0.1pF GRM0335C1H4R8WA01# #0.25pF GRM0335C1H4R8WA01# #0.1pF GRM0335C1H4R8WA01# #0.25pF GRM0335C1H4R8WA01# #0.1pF GRM0335C1H4R8WA01#					±0.25pF	GRM0335C1H3R8CA01#	
#0.25pF GRM0335C1H4R0WA01# #0.1pF GRM0335C1H4R0WA01# #0.25pF GRM0335C1H4R0CA01# #0.25pF GRM0335C1H4R0CA01# #0.1pF GRM0335C1H4R1WA01# #0.1pF GRM0335C1H4R1WA01# #0.25pF GRM0335C1H4R1BA01# #0.25pF GRM0335C1H4R1CA01# #0.1pF GRM0335C1H4R2WA01# #0.25pF GRM0335C1H4R2WA01# #0.25pF GRM0335C1H4R2CA01# #0.25pF GRM0335C1H4R3WA01# #0.1pF GRM0335C1H4R3WA01# #0.1pF GRM0335C1H4R3CA01# #0.25pF GRM0335C1H4R3CA01# #0.1pF GRM0335C1H4R4WA01# #0.1pF GRM0335C1H4R4WA01# #0.1pF GRM0335C1H4R4WA01# #0.25pF GRM0335C1H4R5WA01# #0.25pF GRM0335C1H4R5WA01# #0.25pF GRM0335C1H4R5CA01# #0.25pF GRM0335C1H4R6WA01# #0.25pF GRM0335C1H4R6WA01# #0.25pF GRM0335C1H4R6WA01# #0.25pF GRM0335C1H4R6WA01# #0.1pF GRM0335C1H4R6WA01# #0.25pF GRM0335C1H4R6WA01# #0.25pF GRM0335C1H4R6CA01# #0.25pF GRM0335C1H4R7WA01# #0.1pF GRM0335C1H4R7WA01# #0.1pF GRM0335C1H4R7WA01# #0.1pF GRM0335C1H4R7WA01# #0.1pF GRM0335C1H4R7WA01# #0.1pF GRM0335C1H4R7WA01# #0.1pF GRM0335C1H4R7WA01# #0.25pF GRM0335C1H4R7WA01# #0.1pF GRM0335C1H4R8WA01# #0.25pF GRM0335C1H4R8WA01# #0.25pF GRM0335C1H4R8WA01# #0.25pF GRM0335C1H4R8WA01# #0.1pF GRM0335C1H4R8WA01#				3.9pF	±0.05pF	GRM0335C1H3R9WA01#	
### ### ### ### ### ### ### ### ### ##					±0.1pF	GRM0335C1H3R9BA01#	
### ### ##############################					±0.25pF	GRM0335C1H3R9CA01#	
### ### ##############################				4.0pF	±0.05pF	GRM0335C1H4R0WA01#	
4.1pF					±0.1pF	GRM0335C1H4R0BA01#	
### ### ##############################					±0.25pF	GRM0335C1H4R0CA01#	
### ### ##############################				4.1pF	±0.05pF	GRM0335C1H4R1WA01#	
4.2pF ±0.05pF GRM0335C1H4R2WA01# ±0.1pF GRM0335C1H4R2CA01# ±0.25pF GRM0335C1H4R3WA01# ±0.25pF GRM0335C1H4R3WA01# ±0.1pF GRM0335C1H4R3CA01# ±0.25pF GRM0335C1H4R3CA01# ±0.05pF GRM0335C1H4R4WA01# ±0.1pF GRM0335C1H4R4CA01# ±0.25pF GRM0335C1H4R4CA01# ±0.25pF GRM0335C1H4R5WA01# ±0.1pF GRM0335C1H4R5WA01# ±0.25pF GRM0335C1H4R5CA01# ±0.25pF GRM0335C1H4R6WA01# ±0.25pF GRM0335C1H4R6WA01# ±0.1pF GRM0335C1H4R6WA01# ±0.1pF GRM0335C1H4R6CA01# ±0.25pF GRM0335C1H4R6CA01# ±0.25pF GRM0335C1H4R6CA01# ±0.25pF GRM0335C1H4R7WA01# ±0.25pF GRM0335C1H4R7WA01# ±0.25pF GRM0335C1H4R7WA01# ±0.25pF GRM0335C1H4R7WA01# ±0.1pF GRM0335C1H4R7CA01# ±0.25pF GRM0335C1H4R7CA01# ±0.25pF GRM0335C1H4R7CA01# ±0.25pF GRM0335C1H4R7CA01# ±0.25pF GRM0335C1H4R8WA01# ±0.25pF GRM0335C1H4R8WA01# ±0.1pF GRM0335C1H4R8WA01#					±0.1pF	GRM0335C1H4R1BA01#	
### ##################################					±0.25pF	GRM0335C1H4R1CA01#	
### ### ##############################				4.2pF	±0.05pF	GRM0335C1H4R2WA01#	
4.3pF ±0.05pF GRM0335C1H4R3WA01# ±0.1pF GRM0335C1H4R3WA01# ±0.25pF GRM0335C1H4R4WA01# ±0.05pF GRM0335C1H4R4WA01# ±0.25pF GRM0335C1H4R4CA01# ±0.05pF GRM0335C1H4R5WA01# ±0.1pF GRM0335C1H4R5WA01# ±0.1pF GRM0335C1H4R5CA01# ±0.25pF GRM0335C1H4R5CA01# ±0.05pF GRM0335C1H4R6WA01# ±0.1pF GRM0335C1H4R6WA01# ±0.25pF GRM0335C1H4R6WA01# ±0.25pF GRM0335C1H4R6CA01# ±0.25pF GRM0335C1H4R6CA01# ±0.25pF GRM0335C1H4R7WA01# ±0.1pF GRM0335C1H4R7WA01# ±0.1pF GRM0335C1H4R7CA01# ±0.25pF GRM0335C1H4R7CA01# ±0.25pF GRM0335C1H4R7CA01# ±0.25pF GRM0335C1H4R7CA01# ±0.25pF GRM0335C1H4R7CA01# ±0.25pF GRM0335C1H4R7CA01# ±0.25pF GRM0335C1H4R8WA01# ±0.1pF GRM0335C1H4R8WA01# ±0.1pF GRM0335C1H4R8WA01#					±0.1pF	GRM0335C1H4R2BA01#	
#0.1pF GRM0335C1H4R3BA01# #0.25pF GRM0335C1H4R4WA01# #0.1pF GRM0335C1H4R4WA01# #0.1pF GRM0335C1H4R4BA01# #0.25pF GRM0335C1H4R4CA01# #0.1pF GRM0335C1H4R5WA01# #0.1pF GRM0335C1H4R5WA01# #0.1pF GRM0335C1H4R5CA01# #0.25pF GRM0335C1H4R5CA01# #0.1pF GRM0335C1H4R6WA01# #0.1pF GRM0335C1H4R6WA01# #0.25pF GRM0335C1H4R6CA01# #0.25pF GRM0335C1H4R7WA01# #0.1pF GRM0335C1H4R7WA01# #0.1pF GRM0335C1H4R7WA01# #0.1pF GRM0335C1H4R7WA01# #0.1pF GRM0335C1H4R7CA01# #0.25pF GRM0335C1H4R7CA01# #0.25pF GRM0335C1H4R8WA01# #0.1pF GRM0335C1H4R8WA01# #0.1pF GRM0335C1H4R8WA01#					±0.25pF	GRM0335C1H4R2CA01#	
### ### ##############################				4.3pF	±0.05pF	GRM0335C1H4R3WA01#	
4.4pF ±0.05pF GRM0335C1H4R4WA01# ±0.1pF GRM0335C1H4R4WA01# ±0.25pF GRM0335C1H4R4WA01# ±0.25pF GRM0335C1H4R5WA01# ±0.1pF GRM0335C1H4R5BA01# ±0.25pF GRM0335C1H4R5CA01# ±0.05pF GRM0335C1H4R6WA01# ±0.1pF GRM0335C1H4R6BA01# ±0.25pF GRM0335C1H4R6CA01# ±0.05pF GRM0335C1H4R7WA01# ±0.05pF GRM0335C1H4R7WA01# ±0.1pF GRM0335C1H4R7BA01# ±0.25pF GRM0335C1H4R7CA01# ±0.25pF GRM0335C1H4R7CA01# ±0.05pF GRM0335C1H4R7CA01# ±0.05pF GRM0335C1H4R8WA01# ±0.05pF GRM0335C1H4R8WA01# ±0.05pF GRM0335C1H4R8WA01#					±0.1pF	GRM0335C1H4R3BA01#	
#0.1pF GRM0335C1H4R4BA01# #0.25pF GRM0335C1H4R4CA01# #0.1pF GRM0335C1H4R5WA01# #0.1pF GRM0335C1H4R5BA01# #0.25pF GRM0335C1H4R5CA01# #0.05pF GRM0335C1H4R6WA01# #0.1pF GRM0335C1H4R6BA01# #0.25pF GRM0335C1H4R6BA01# #0.25pF GRM0335C1H4R6CA01# #0.1pF GRM0335C1H4R7WA01# #0.1pF GRM0335C1H4R7BA01# #0.25pF GRM0335C1H4R7CA01# #0.1pF GRM0335C1H4R7CA01# #0.25pF GRM0335C1H4R8WA01# #0.1pF GRM0335C1H4R8WA01# #0.1pF GRM0335C1H4R8WA01#					±0.25pF	GRM0335C1H4R3CA01#	
### ### ##############################				4.4pF	±0.05pF	GRM0335C1H4R4WA01#	
4.5pF ±0.05pF GRM0335C1H4R5WA01# ±0.1pF GRM0335C1H4R5BA01# ±0.25pF GRM0335C1H4R6WA01# ±0.05pF GRM0335C1H4R6WA01# ±0.1pF GRM0335C1H4R6BA01# ±0.25pF GRM0335C1H4R6CA01# ±0.05pF GRM0335C1H4R7WA01# ±0.1pF GRM0335C1H4R7WA01# ±0.25pF GRM0335C1H4R7CA01# ±0.25pF GRM0335C1H4R7CA01# ±0.25pF GRM0335C1H4R8WA01# ±0.1pF GRM0335C1H4R8WA01# ±0.1pF GRM0335C1H4R8WA01#					±0.1pF	GRM0335C1H4R4BA01#	
±0.1pF GRM0335C1H4R5BA01# ±0.25pF GRM0335C1H4R6WA01# ±0.05pF GRM0335C1H4R6WA01# ±0.1pF GRM0335C1H4R6BA01# ±0.25pF GRM0335C1H4R6CA01# 4.7pF ±0.05pF GRM0335C1H4R7WA01# ±0.1pF GRM0335C1H4R7BA01# ±0.25pF GRM0335C1H4R7CA01# ±0.25pF GRM0335C1H4R7CA01# ±0.25pF GRM0335C1H4R8WA01# ±0.1pF GRM0335C1H4R8WA01#					±0.25pF	GRM0335C1H4R4CA01#	
±0.25pF GRM0335C1H4R5CA01# 4.6pF ±0.05pF GRM0335C1H4R6WA01# ±0.1pF GRM0335C1H4R6BA01# ±0.25pF GRM0335C1H4R6CA01# 4.7pF ±0.05pF GRM0335C1H4R7WA01# ±0.1pF GRM0335C1H4R7BA01# ±0.25pF GRM0335C1H4R7CA01# 4.8pF ±0.05pF GRM0335C1H4R8WA01# ±0.1pF GRM0335C1H4R8WA01#				4.5pF	±0.05pF	GRM0335C1H4R5WA01#	
4.6pF ±0.05pF GRM0335C1H4R6WA01# ±0.1pF GRM0335C1H4R6BA01# ±0.25pF GRM0335C1H4R6CA01# 4.7pF ±0.05pF GRM0335C1H4R7WA01# ±0.1pF GRM0335C1H4R7BA01# ±0.25pF GRM0335C1H4R7CA01# 4.8pF ±0.05pF GRM0335C1H4R8WA01# ±0.1pF GRM0335C1H4R8WA01#					±0.1pF	GRM0335C1H4R5BA01#	
#0.1pF GRM0335C1H4R6BA01# #0.25pF GRM0335C1H4R6CA01# #0.05pF GRM0335C1H4R7WA01# #0.1pF GRM0335C1H4R7BA01# #0.25pF GRM0335C1H4R7CA01# #0.05pF GRM0335C1H4R8WA01# #0.1pF GRM0335C1H4R8WA01# #0.1pF GRM0335C1H4R8BA01#					±0.25pF	GRM0335C1H4R5CA01#	
±0.25pF GRM0335C1H4R6CA01# 4.7pF ±0.05pF GRM0335C1H4R7WA01# ±0.1pF GRM0335C1H4R7BA01# ±0.25pF GRM0335C1H4R7CA01# 4.8pF ±0.05pF GRM0335C1H4R8WA01# ±0.1pF GRM0335C1H4R8BA01#				4.6pF	±0.05pF	GRM0335C1H4R6WA01#	
4.7pF ±0.05pF GRM0335C1H4R7WA01# ±0.1pF GRM0335C1H4R7BA01# ±0.25pF GRM0335C1H4R7CA01# 4.8pF ±0.05pF GRM0335C1H4R8WA01# ±0.1pF GRM0335C1H4R8BA01#					±0.1pF	GRM0335C1H4R6BA01#	
±0.1pF					±0.25pF	GRM0335C1H4R6CA01#	
±0.25pF GRM0335C1H4R7CA01# 4.8pF ±0.05pF GRM0335C1H4R8WA01# ±0.1pF GRM0335C1H4R8BA01#				4.7pF	±0.05pF	GRM0335C1H4R7WA01#	
4.8pF ±0.05pF GRM0335C1H4R8WA01# ±0.1pF GRM0335C1H4R8BA01#					±0.1pF	GRM0335C1H4R7BA01#	
±0.1pF GRM0335C1H4R8BA01#					±0.25pF	GRM0335C1H4R7CA01#	
				4.8pF	±0.05pF	GRM0335C1H4R8WA01#	
±0.25pF GRM0335C1H4R8CA01#					±0.1pF	GRM0335C1H4R8BA01#	
					±0.25pF	GRM0335C1H4R8CA01#	



T max.	Rated Voltage	TC Code	Сар.	Tol.	Part Number
0.33mm	50Vdc	COG	4.9pF	±0.05pF	GRM0335C1H4R9WA01#
				±0.1pF	GRM0335C1H4R9BA01#
				±0.25pF	GRM0335C1H4R9CA01#
		5.0pF ±0.0	±0.05pF	GRM0335C1H5R0WA01#	
				±0.1pF	GRM0335C1H5R0BA01#
				±0.25pF	GRM0335C1H5R0CA01#
				5.1pF	±0.05pF
				GRM0335C1H5R1BA01#	
				±0.25pF	GRM0335C1H5R1CA01#
				±0.5pF	GRM0335C1H5R1DA01#
			5.2pF	±0.05pF	GRM0335C1H5R2WA01#
			- 1	±0.1pF	GRM0335C1H5R2BA01#
				±0.25pF	GRM0335C1H5R2CA01#
				±0.5pF	GRM0335C1H5R2DA01#
			5.3pF	±0.05pF	GRM0335C1H5R3WA01#
			о.орі	±0.1pF	GRM0335C1H5R3BA01#
				- · · · -	
				±0.25pF	GRM0335C1H5R3CA01#
				±0.5pF	GRM0335C1H5R3DA01#
			5.4pF	±0.05pF	GRM0335C1H5R4WA01#
				±0.1pF	GRM0335C1H5R4BA01#
				±0.25pF	GRM0335C1H5R4CA01#
				±0.5pF	GRM0335C1H5R4DA01#
		,	5.5pF	±0.05pF	GRM0335C1H5R5WA01#
				±0.1pF	GRM0335C1H5R5BA01#
					±0.25pF
					±0.5pF
			5.6pF	±0.05pF	GRM0335C1H5R6WA01#
				±0.1pF	GRM0335C1H5R6BA01#
				±0.25pF	GRM0335C1H5R6CA01#
				±0.5pF	GRM0335C1H5R6DA01#
			5.7pF	±0.05pF	GRM0335C1H5R7WA01#
				±0.1pF	GRM0335C1H5R7BA01#
				±0.25pF	GRM0335C1H5R7CA01#
				±0.5pF	GRM0335C1H5R7DA01#
			5.8pF	±0.05pF	GRM0335C1H5R8WA01#
			•	±0.1pF	GRM0335C1H5R8BA01#
				±0.25pF	GRM0335C1H5R8CA01#
				±0.5pF	GRM0335C1H5R8DA01#
			5.9pF	±0.05pF	GRM0335C1H5R9WA01#
			J.9pi	±0.05pi	GRM0335C1H5R9BA01#
				±0.25pF	GRM0335C1H5R9CA01#
			00.5	±0.5pF	GRM0335C1H5R9DA01#
			6.0pF	±0.05pF	GRM0335C1H6R0WA01#
				±0.1pF	GRM0335C1H6R0BA01#
				±0.25pF	GRM0335C1H6R0CA01#
				±0.5pF	GRM0335C1H6R0DA01#
			6.1pF	±0.05pF	GRM0335C1H6R1WA01#
				±0.1pF	GRM0335C1H6R1BA01#
				±0.25pF	GRM0335C1H6R1CA01#
				±0.5pF	GRM0335C1H6R1DA01#
			6.2pF	±0.05pF	GRM0335C1H6R2WA01#
				±0.1pF	GRM0335C1H6R2BA01#
				±0.25pF	GRM0335C1H6R2CA01#
				±0.5pF	GRM0335C1H6R2DA01#

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number	
0.33mm	50Vdc	COG	6.3pF	±0.05pF	GRM0335C1H6R3WA01#	
				±0.1pF	GRM0335C1H6R3BA01#	
				±0.25pF	GRM0335C1H6R3CA01#	
				±0.5pF	GRM0335C1H6R3DA01#	
			6.4pF	±0.05pF	GRM0335C1H6R4WA01#	
				±0.1pF	GRM0335C1H6R4BA01#	
				±0.25pF	GRM0335C1H6R4CA01#	
				±0.5pF	GRM0335C1H6R4DA01#	
			6.5pF	±0.05pF	GRM0335C1H6R5WA01#	
				±0.1pF	GRM0335C1H6R5BA01#	
				±0.25pF	GRM0335C1H6R5CA01#	
				±0.5pF	GRM0335C1H6R5DA01#	
			6.6pF	±0.05pF	GRM0335C1H6R6WA01#	
				±0.1pF	GRM0335C1H6R6BA01#	
				±0.25pF	GRM0335C1H6R6CA01#	
				±0.5pF	GRM0335C1H6R6DA01#	
			6.7pF	±0.05pF	GRM0335C1H6R7WA01#	
			•	±0.1pF	GRM0335C1H6R7BA01#	
				±0.25pF	GRM0335C1H6R7CA01#	
				±0.5pF	GRM0335C1H6R7DA01#	
			6.8pF	±0.05pF	GRM0335C1H6R8WA01#	
				±0.1pF	GRM0335C1H6R8BA01#	
				±0.25pF	GRM0335C1H6R8CA01#	
				±0.5pF	GRM0335C1H6R8DA01#	
			6.9pF	±0.05pF	GRM0335C1H6R9WA01#	
			•	±0.1pF	GRM0335C1H6R9BA01#	
				±0.25pF	GRM0335C1H6R9CA01#	
				±0.5pF	GRM0335C1H6R9DA01#	
			7.0pF	±0.05pF	GRM0335C1H7R0WA01#	
				±0.1pF	GRM0335C1H7R0BA01#	
				±0.25pF	GRM0335C1H7R0CA01#	
				±0.5pF	GRM0335C1H7R0DA01#	
			7.1pF	±0.05pF	GRM0335C1H7R1WA01#	
				±0.1pF	GRM0335C1H7R1BA01#	
				±0.25pF	GRM0335C1H7R1CA01#	
				±0.5pF	GRM0335C1H7R1DA01#	
			7.2pF	±0.05pF	GRM0335C1H7R2WA01#	
			1	±0.1pF	GRM0335C1H7R2BA01#	
				±0.25pF	GRM0335C1H7R2CA01#	
				±0.5pF	GRM0335C1H7R2DA01#	
			7.3pF	±0.05pF	GRM0335C1H7R3WA01#	
				±0.1pF	GRM0335C1H7R3BA01#	
				±0.25pF	GRM0335C1H7R3CA01#	
				±0.5pF	GRM0335C1H7R3DA01#	
			7.4pF	±0.05pF	GRM0335C1H7R4WA01#	
			p.	±0.1pF	GRM0335C1H7R4BA01#	
				±0.25pF	GRM0335C1H7R4CA01#	
				±0.5pF	GRM0335C1H7R4DA01#	
			7.5pF	±0.05pF	GRM0335C1H7R5WA01#	
			r.Jpr	<u> </u>	GRM0335C1H7R5BA01#	
				±0.1pF		
				±0.25pF	GRM0335C1H7R5CA01#	
			70-5	±0.5pF	GRM0335C1H7R5DA01#	
			7.6pF	±0.05pF	GRM0335C1H7R6WA01#	
				±0.1pF	GRM0335C1H7R6BA01#	

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number
).33mm	50Vdc	COG	7.6pF	±0.25pF	GRM0335C1H7R6CA01#
				±0.5pF	GRM0335C1H7R6DA01#
			7.7pF	±0.05pF	GRM0335C1H7R7WA01#
				±0.1pF	GRM0335C1H7R7BA01#
				±0.25pF	GRM0335C1H7R7CA01#
				±0.5pF	GRM0335C1H7R7DA01#
			7.8pF	±0.05pF	GRM0335C1H7R8WA01#
				±0.1pF	GRM0335C1H7R8BA01#
				±0.25pF	GRM0335C1H7R8CA01#
				±0.5pF	GRM0335C1H7R8DA01#
			7.9pF	±0.05pF	GRM0335C1H7R9WA01#
			•	±0.1pF	GRM0335C1H7R9BA01#
				±0.25pF	GRM0335C1H7R9CA01#
				±0.5pF	GRM0335C1H7R9DA01#
			8.0pF	±0.05pF	GRM0335C1H8R0WA01#
				±0.1pF	GRM0335C1H8R0BA01#
				±0.25pF	
				±0.5pF	GRM0335C1H8R0DA01#
			8.1pF	±0.05pF	GRM0335C1H8R1WA01#
			0.1pi	±0.1pF	GRM0335C1H8R1BA01#
				±0.25pF	GRM0335C1H8R1CA01#
				±0.5pF	GRM0335C1H8R1DA01#
			8.2pF	±0.05pF	
				-	GRM0335C1H8R2WA01#
				±0.1pF	GRM0335C1H8R2BA01#
				±0.25pF	GRM0335C1H8R2CA01#
			8.3pF	±0.5pF	GRM0335C1H8R2DA01#
				±0.05pF	GRM0335C1H8R3WA01#
				±0.1pF	GRM0335C1H8R3BA01#
				±0.25pF	GRM0335C1H8R3CA01#
				±0.5pF	GRM0335C1H8R3DA01#
			8.4pF 8.5pF	±0.05pF	GRM0335C1H8R4WA01#
				±0.1pF	GRM0335C1H8R4BA01#
				±0.25pF	GRM0335C1H8R4CA01#
				±0.5pF	GRM0335C1H8R4DA01#
				±0.05pF	GRM0335C1H8R5WA01#
				±0.1pF	GRM0335C1H8R5BA01#
				±0.25pF	GRM0335C1H8R5CA01#
				±0.5pF	GRM0335C1H8R5DA01#
			8.6pF	±0.05pF	GRM0335C1H8R6WA01#
				±0.1pF	GRM0335C1H8R6BA01#
				±0.25pF	GRM0335C1H8R6CA01#
				±0.5pF	GRM0335C1H8R6DA01#
			8.7pF	±0.05pF	GRM0335C1H8R7WA01#
				±0.1pF	GRM0335C1H8R7BA01#
				±0.25pF	GRM0335C1H8R7CA01#
				±0.5pF	GRM0335C1H8R7DA01#
			8.8pF	±0.05pF	GRM0335C1H8R8WA01#
				±0.1pF	GRM0335C1H8R8BA01#
				±0.25pF	GRM0335C1H8R8CA01#
				±0.5pF	GRM0335C1H8R8DA01#
			00.5		
			8.9pF	-	GRM0335C1H8R9WA01#
			8.9pF	±0.05pF	GRM0335C1H8R9WA01#
			8.9pF	-	

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number
0.33mm	50Vdc	COG	9.0pF	±0.05pF	GRM0335C1H9R0WA01#
				±0.1pF	GRM0335C1H9R0BA01#
				±0.25pF	GRM0335C1H9R0CA01#
				±0.5pF	GRM0335C1H9R0DA01#
			9.1pF	±0.05pF	GRM0335C1H9R1WA01#
				±0.1pF	GRM0335C1H9R1BA01#
				±0.25pF	GRM0335C1H9R1CA01#
				±0.5pF	GRM0335C1H9R1DA01#
			9.2pF	±0.05pF	GRM0335C1H9R2WA01#
				±0.1pF	GRM0335C1H9R2BA01#
				±0.25pF	GRM0335C1H9R2CA01#
				±0.5pF	GRM0335C1H9R2DA01#
			9.3pF	±0.05pF	GRM0335C1H9R3WA01#
				±0.1pF	GRM0335C1H9R3BA01#
				±0.25pF	GRM0335C1H9R3CA01#
				±0.5pF	GRM0335C1H9R3DA01#
			9.4pF	±0.05pF	GRM0335C1H9R4WA01#
				±0.1pF	GRM0335C1H9R4BA01#
				±0.25pF	GRM0335C1H9R4CA01#
				±0.5pF	GRM0335C1H9R4DA01#
			9.5pF	±0.05pF	GRM0335C1H9R5WA01#
				±0.1pF	GRM0335C1H9R5BA01#
				±0.25pF	GRM0335C1H9R5CA01#
				±0.5pF	GRM0335C1H9R5DA01#
			9.6pF	±0.05pF	GRM0335C1H9R6WA01#
				±0.1pF	GRM0335C1H9R6BA01#
				±0.25pF	GRM0335C1H9R6CA01#
				±0.5pF	GRM0335C1H9R6DA01#
			9.7pF	±0.05pF	GRM0335C1H9R7WA01#
				±0.1pF	GRM0335C1H9R7BA01#
				±0.25pF	GRM0335C1H9R7CA01#
				±0.5pF	GRM0335C1H9R7DA01#
			9.8pF	±0.05pF	GRM0335C1H9R8WA01#
				±0.1pF	GRM0335C1H9R8BA01#
				±0.25pF	GRM0335C1H9R8CA01#
				±0.5pF	GRM0335C1H9R8DA01#
			9.9pF	±0.05pF	GRM0335C1H9R9WA01#
				±0.1pF	GRM0335C1H9R9BA01#
				±0.25pF	GRM0335C1H9R9CA01#
				±0.5pF	GRM0335C1H9R9DA01#
			10pF	±2%	GRM0335C1H100GA01#
				±5%	GRM0335C1H100JA01#
			12pF	±2%	GRM0335C1H120GA01#
				±5%	GRM0335C1H120JA01#
			15pF	±2%	GRM0335C1H150GA01#
				±5%	GRM0335C1H150JA01#
			18pF	±2%	GRM0335C1H180GA01#
				±5%	GRM0335C1H180JA01#
			22pF	±2%	GRM0335C1H220GA01#
				±5%	GRM0335C1H220JA01#
			27pF	±2%	GRM0335C1H270GA01#
				±5%	GRM0335C1H270JA01#
			33pF	±2%	GRM0335C1H330GA01#
				±5%	GRM0335C1H330JA01#
			Part nur	nber # indic	cates the package specification code.



T max.	Rated Voltage	TC Code	Сар.	Tol.	Part Number	
0.33mm	50Vdc	COG	39pF	±2%	GRM0335C1H390GA01#	
				±5%	GRM0335C1H390JA01#	
			47pF	±2%	GRM0335C1H470GA01#	
				±5%	GRM0335C1H470JA01#	
			56pF	±2%	GRM0335C1H560GA01#	
				±5%	GRM0335C1H560JA01#	
			68pF	±2%	GRM0335C1H680GA01#	
				±5%	GRM0335C1H680JA01#	
			82pF	±2%	GRM0335C1H820GA01#	
				±5%	GRM0335C1H820JA01#	
			100pF	±2%	GRM0335C1H101GA01#	
				±5%	GRM0335C1H101JA01#	
		CK	0.1pF	±0.05pF	GRM0334C1HR10WA01#	
				±0.1pF	GRM0334C1HR10BA01#	
			0.2pF	±0.05pF	GRM0334C1HR20WA01#	
				±0.1pF	GRM0334C1HR20BA01#	
			0.3pF	±0.05pF	GRM0334C1HR30WA01#	
				±0.1pF	GRM0334C1HR30BA01#	
			0.4pF	±0.05pF	GRM0334C1HR40WA01#	
				±0.1pF	GRM0334C1HR40BA01#	
			0.5pF	±0.05pF	GRM0334C1HR50WA01#	
				±0.1pF	GRM0334C1HR50BA01#	
			0.6pF	±0.05pF	GRM0334C1HR60WA01#	
				±0.1pF	GRM0334C1HR60BA01#	
			0.7pF	±0.05pF	GRM0334C1HR70WA01#	
				±0.1pF	GRM0334C1HR70BA01#	
			0.8pF	±0.05pF	GRM0334C1HR80WA01#	
				±0.1pF	GRM0334C1HR80BA01#	
			0.9pF	±0.05pF	GRM0334C1HR90WA01#	
				±0.1pF	GRM0334C1HR90BA01#	
			1.0pF	±0.05pF	GRM0334C1H1R0WA01#	
				±0.1pF	GRM0334C1H1R0BA01#	
				±0.25pF	GRM0334C1H1R0CA01#	
				1.1pF	±0.05pF	GRM0334C1H1R1WA01#
				±0.25pF	GRM0334C1H1R1CA01#	
			1.2pF	±0.05pF	GRM0334C1H1R2WA01#	
			•	±0.1pF	GRM0334C1H1R2BA01#	
				±0.25pF	GRM0334C1H1R2CA01#	
			1.3pF	±0.05pF	GRM0334C1H1R3WA01#	
			•	±0.1pF	GRM0334C1H1R3BA01#	
				±0.25pF	GRM0334C1H1R3CA01#	
			1.4pF	±0.05pF	GRM0334C1H1R4WA01#	
				±0.1pF	GRM0334C1H1R4BA01#	
				±0.25pF	GRM0334C1H1R4CA01#	
			1.5pF	±0.05pF	GRM0334C1H1R5WA01#	
			1-	±0.1pF	GRM0334C1H1R5BA01#	
				±0.25pF	GRM0334C1H1R5CA01#	
			1.6pF	±0.05pF	GRM0334C1H1R6WA01#	
			1.001	±0.03pi	GRM0334C1H1R6BA01#	
				±0.1pi	GRM0334C1H1R6CA01#	
			1.7pF	±0.25pF	GRM0334C1H1R7WA01#	
			1.7 PF	-		
		'		±0.1pF	GRM0334C1H1R7BA01#	

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number	
0.33mm	50Vdc	CK	1.8pF	±0.05pF	GRM0334C1H1R8WA01#	
				±0.1pF	GRM0334C1H1R8BA01#	
				±0.25pF	GRM0334C1H1R8CA01#	
			1.9pF	±0.05pF	GRM0334C1H1R9WA01#	
				±0.1pF	GRM0334C1H1R9BA01#	
				±0.25pF	GRM0334C1H1R9CA01#	
			2.0pF	±0.05pF	GRM0334C1H2R0WA01#	
				±0.1pF	GRM0334C1H2R0BA01#	
				±0.25pF	GRM0334C1H2R0CA01#	
		CJ	2.1pF	±0.05pF	GRM0333C1H2R1WA01#	
				±0.1pF	GRM0333C1H2R1BA01#	
				±0.25pF	GRM0333C1H2R1CA01#	
			2.2pF	±0.05pF	GRM0333C1H2R2WA01#	
				±0.1pF	GRM0333C1H2R2BA01#	
				±0.25pF	GRM0333C1H2R2CA01#	
			2.3pF	±0.05pF	GRM0333C1H2R3WA01#	
				±0.1pF	GRM0333C1H2R3BA01#	
				±0.25pF	GRM0333C1H2R3CA01#	
			2.4pF	±0.05pF	GRM0333C1H2R4WA01#	
				±0.1pF	GRM0333C1H2R4BA01#	
				±0.25pF	GRM0333C1H2R4CA01#	
			2.5pF	±0.05pF	GRM0333C1H2R5WA01#	
				±0.1pF	GRM0333C1H2R5BA01#	
				±0.25pF	GRM0333C1H2R5CA01#	
			2.6pF 2.7pF	±0.05pF	GRM0333C1H2R6WA01#	
				±0.1pF	GRM0333C1H2R6BA01#	
				±0.25pF	GRM0333C1H2R6CA01#	
				±0.05pF	GRM0333C1H2R7WA01#	
				±0.1pF	GRM0333C1H2R7BA01#	
				±0.25pF	GRM0333C1H2R7CA01#	
			2.8pF	±0.05pF	GRM0333C1H2R8WA01#	
				±0.1pF	GRM0333C1H2R8BA01#	
				±0.25pF	GRM0333C1H2R8CA01#	
			2.9pF	±0.05pF	GRM0333C1H2R9WA01#	
				±0.1pF	GRM0333C1H2R9BA01#	
				±0.25pF	GRM0333C1H2R9CA01#	
			3.0pF	±0.05pF	GRM0333C1H3R0WA01#	
				±0.1pF	GRM0333C1H3R0BA01#	
				±0.25pF	GRM0333C1H3R0CA01#	
			3.1pF	±0.05pF	GRM0333C1H3R1WA01#	
				±0.1pF	GRM0333C1H3R1BA01#	
				±0.25pF	GRM0333C1H3R1CA01#	
			3.2pF	±0.05pF	GRM0333C1H3R2WA01#	
				±0.1pF	GRM0333C1H3R2BA01#	
				±0.25pF	GRM0333C1H3R2CA01#	
			3.3pF	±0.05pF	GRM0333C1H3R3WA01#	
				±0.1pF	GRM0333C1H3R3BA01#	
				±0.25pF	GRM0333C1H3R3CA01#	
			3.4pF	±0.05pF	GRM0333C1H3R4WA01#	
				±0.1pF	GRM0333C1H3R4BA01#	
				±0.25pF	GRM0333C1H3R4CA01#	
			3.5pF	±0.05pF	GRM0333C1H3R5WA01#	
				±0.1pF	GRM0333C1H3R5BA01#	
				±0.25pF	GRM0333C1H3R5CA01#	

T max.	Rated Voltage	TC Code	Сар.	Tol.	Part Number
0.33mm	50Vdc	CJ	3.6pF	±0.05pF	GRM0333C1H3R6WA01#
				±0.1pF	GRM0333C1H3R6BA01#
				±0.25pF	GRM0333C1H3R6CA01#
			3.7pF	±0.05pF	GRM0333C1H3R7WA01#
				±0.1pF	GRM0333C1H3R7BA01#
				±0.25pF	GRM0333C1H3R7CA01#
			3.8pF	±0.05pF	GRM0333C1H3R8WA01#
			•	±0.1pF	GRM0333C1H3R8BA01#
				±0.25pF	GRM0333C1H3R8CA01#
			3.9pF	±0.05pF	GRM0333C1H3R9WA01#
			0.001	±0.1pF	GRM0333C1H3R9BA01#
					GRM0333C1H3R9CA01#
		CII	4.05	±0.25pF	
		СН	4.0pF	±0.05pF	
				±0.1pF	GRM0332C1H4R0BA01#
				±0.25pF	GRM0332C1H4R0CA01#
			4.1pF	±0.05pF	GRM0332C1H4R1WA01#
				±0.1pF	GRM0332C1H4R1BA01#
				±0.25pF	GRM0332C1H4R1CA01#
			4.2pF	±0.05pF	GRM0332C1H4R2WA01#
				±0.1pF	GRM0332C1H4R2BA01#
				±0.25pF	GRM0332C1H4R2CA01#
			4.3pF	±0.05pF	GRM0332C1H4R3WA01#
				±0.1pF	GRM0332C1H4R3BA01#
				±0.25pF	GRM0332C1H4R3CA01#
			4.4pF	±0.05pF	GRM0332C1H4R4WA01#
				±0.1pF	GRM0332C1H4R4BA01#
				±0.25pF	GRM0332C1H4R4CA01#
			4.5pF	±0.05pF	GRM0332C1H4R5WA01#
				±0.1pF	GRM0332C1H4R5BA01#
				±0.25pF	GRM0332C1H4R5CA01#
			4.6pF	±0.05pF	GRM0332C1H4R6WA01#
				±0.1pF	GRM0332C1H4R6BA01#
				±0.25pF	GRM0332C1H4R6CA01#
			4.7pF	±0.05pF	GRM0332C1H4R7WA01#
			·	±0.1pF	GRM0332C1H4R7BA01#
				±0.25pF	GRM0332C1H4R7CA01#
			4.8pF	±0.05pF	GRM0332C1H4R8WA01#
				±0.1pF	GRM0332C1H4R8BA01#
				±0.25pF	GRM0332C1H4R8CA01#
			4.9pF	±0.05pF	GRM0332C1H4R9WA01#
			4.5рі	±0.1pF	GRM0332C1H4R9BA01#
				±0.25pF	GRM0332C1H4R9CA01#
			5.0pF	±0.05pF	GRM0332C1H5R0WA01#
			3.0pi	-	
				±0.1pF	GRM0332C1H5R0BA01#
				±0.25pF	GRM0332C1H5R0CA01#
			5.1pF	±0.05pF	
				±0.1pF	GRM0332C1H5R1BA01#
				±0.25pF	GRM0332C1H5R1CA01#
				±0.5pF	GRM0332C1H5R1DA01#
			5.2pF	±0.05pF	GRM0332C1H5R2WA01#
				±0.1pF	GRM0332C1H5R2BA01#
				±0.25pF	GRM0332C1H5R2CA01#
				±0.5pF	GRM0332C1H5R2DA01#

T max.	Rated Voltage	TC Code	Сар.	Tol.	Part Number	
0.33mm	50Vdc	СН	5.3pF	±0.1pF	GRM0332C1H5R3BA01#	
				±0.25pF	GRM0332C1H5R3CA01#	
				±0.5pF	GRM0332C1H5R3DA01#	
			5.4pF	±0.05pF	GRM0332C1H5R4WA01#	
				±0.1pF	GRM0332C1H5R4BA01#	
				±0.25pF	GRM0332C1H5R4CA01#	
				±0.5pF	GRM0332C1H5R4DA01#	
			5.5pF	±0.05pF	GRM0332C1H5R5WA01#	
				±0.1pF	GRM0332C1H5R5BA01#	
				±0.25pF	GRM0332C1H5R5CA01#	
				±0.5pF	GRM0332C1H5R5DA01#	
			5.6pF	±0.05pF	GRM0332C1H5R6WA01#	
				±0.1pF	GRM0332C1H5R6BA01#	
				±0.25pF	GRM0332C1H5R6CA01#	
				±0.5pF	GRM0332C1H5R6DA01#	
			5.7pF	±0.05pF	GRM0332C1H5R7WA01#	
				±0.1pF	GRM0332C1H5R7BA01#	
				±0.25pF	GRM0332C1H5R7CA01#	
				±0.5pF	GRM0332C1H5R7DA01#	
			5.8pF	±0.05pF	GRM0332C1H5R8WA01#	
				±0.1pF	GRM0332C1H5R8BA01#	
				±0.25pF	GRM0332C1H5R8CA01#	
				±0.5pF	GRM0332C1H5R8DA01#	
			5.9pF	±0.05pF	GRM0332C1H5R9WA01#	
				±0.1pF	GRM0332C1H5R9BA01#	
				±0.25pF	GRM0332C1H5R9CA01#	
				±0.5pF	GRM0332C1H5R9DA01#	
			6.0pF	±0.05pF	GRM0332C1H6R0WA01#	
				±0.1pF	GRM0332C1H6R0BA01#	
				±0.25pF	GRM0332C1H6R0CA01#	
				±0.5pF	GRM0332C1H6R0DA01#	
			6.1pF	±0.05pF	GRM0332C1H6R1WA01#	
				±0.1pF	GRM0332C1H6R1BA01#	
				±0.25pF	GRM0332C1H6R1CA01#	
				±0.5pF	GRM0332C1H6R1DA01#	
			6.2pF	±0.05pF	GRM0332C1H6R2WA01#	
				±0.1pF	GRM0332C1H6R2BA01#	
				±0.25pF	GRM0332C1H6R2CA01#	
				±0.5pF	GRM0332C1H6R2DA01#	
			6.3pF	±0.05pF	GRM0332C1H6R3WA01#	
				±0.1pF	GRM0332C1H6R3BA01#	
				±0.25pF	GRM0332C1H6R3CA01#	
				±0.5pF	GRM0332C1H6R3DA01#	
			6.4pF	±0.05pF	GRM0332C1H6R4WA01#	
				±0.1pF	GRM0332C1H6R4BA01#	
				±0.25pF	GRM0332C1H6R4CA01#	<u> </u>
			0	±0.5pF	GRM0332C1H6R4DA01#	
			6.5pF	±0.05pF	GRM0332C1H6R5WA01#	
				±0.1pF	GRM0332C1H6R5BA01#	
				±0.25pF	GRM0332C1H6R5CA01#	
			00.5	±0.5pF	GRM0332C1H6R5DA01#	
			6.6pF	±0.05pF	GRM0332C1H6R6WA01#	
				±0.1pF	GRM0332C1H6R6BA01#	
			D :	±0.25pF	GRM0332C1H6R6CA01#	<u> </u>
			Part nur	mber # indic	cates the package specification	code.



T max.	Rated Voltage	TC Code	Сар.	Tol.	Part Number
.33mm	50Vdc	СН	6.6pF	±0.5pF	GRM0332C1H6R6DA01#
			6.7pF	±0.05pF	GRM0332C1H6R7WA01#
	ax. Voltage			±0.1pF	GRM0332C1H6R7BA01#
				±0.25pF	GRM0332C1H6R7CA01#
				±0.5pF	GRM0332C1H6R7DA01#
			6.8pF	±0.05pF	GRM0332C1H6R8WA01#
				±0.1pF	GRM0332C1H6R8BA01#
				±0.25pF	GRM0332C1H6R8CA01#
				±0.5pF	GRM0332C1H6R8DA01#
			6.9pF	±0.05pF	GRM0332C1H6R9WA01#
				±0.1pF	GRM0332C1H6R9BA01#
				±0.25pF	GRM0332C1H6R9CA01#
				±0.5pF	GRM0332C1H6R9DA01#
			7.0pF	±0.05pF	GRM0332C1H7R0WA01#
				±0.1pF	GRM0332C1H7R0BA01#
				±0.25pF	GRM0332C1H7R0CA01#
				±0.5pF	GRM0332C1H7R0DA01#
			7.1pF	±0.05pF	GRM0332C1H7R1WA01#
				±0.1pF	GRM0332C1H7R1BA01#
				±0.25pF	GRM0332C1H7R1CA01#
				±0.5pF	GRM0332C1H7R1DA01#
			7.2pF	±0.05pF	GRM0332C1H7R2WA01#
				±0.1pF	GRM0332C1H7R2BA01#
				±0.25pF	GRM0332C1H7R2CA01#
				±0.5pF	GRM0332C1H7R2DA01#
			7.3pF	±0.05pF	GRM0332C1H7R3WA01#
			7.001	±0.1pF	GRM0332C1H7R3BA01#
				±0.25pF	GRM0332C1H7R3CA01#
				±0.5pF	GRM0332C1H7R3DA01#
			7.4pF	±0.05pF	GRM0332C1H7R4WA01#
			7. 4 pi	±0.05pi	GRM0332C1H7R4BA01#
				±0.25pF	GRM0332C1H7R4CA01#
				±0.25pf	GRM0332C1H7R4DA01#
			7 En E		
			7.5pF	±0.05pF	GRM0332C1H7R5WA01# GRM0332C1H7R5BA01#
				±0.1pF	
				±0.25pF	GRM0332C1H7R5CA01#
			70-5	±0.5pF	GRM0332C1H7R5DA01#
			7.6pF	±0.05pF	GRM0332C1H7R6WA01#
				±0.1pF	GRM0332C1H7R6BA01#
				±0.25pF	GRM0332C1H7R6CA01#
				±0.5pF	GRM0332C1H7R6DA01#
			7.7pF	±0.05pF	GRM0332C1H7R7WA01#
				±0.1pF	GRM0332C1H7R7BA01#
				±0.25pF	GRM0332C1H7R7CA01#
				±0.5pF	GRM0332C1H7R7DA01#
			7.8pF	±0.05pF	GRM0332C1H7R8WA01#
				±0.1pF	GRM0332C1H7R8BA01#
				±0.25pF	GRM0332C1H7R8CA01#
				±0.5pF	GRM0332C1H7R8DA01#
			7.9pF	±0.05pF	GRM0332C1H7R9WA01#
				±0.1pF	GRM0332C1H7R9BA01#
				±0.25pF	GRM0332C1H7R9CA01#
				±0.5pF	GRM0332C1H7R9DA01#
			8.0pF	±0.05pF	GRM0332C1H8R0WA01#

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number	
0.33mm	50Vdc	СН	8.0pF	±0.1pF	GRM0332C1H8R0BA01#	
				±0.25pF	GRM0332C1H8R0CA01#	
				±0.5pF	GRM0332C1H8R0DA01#	
			8.1pF	±0.05pF	GRM0332C1H8R1WA01#	
				±0.1pF	GRM0332C1H8R1BA01#	
				±0.25pF	GRM0332C1H8R1CA01#	
				±0.5pF	GRM0332C1H8R1DA01#	
			8.2pF	±0.05pF	GRM0332C1H8R2WA01#	
				±0.1pF	GRM0332C1H8R2BA01#	
				±0.25pF	GRM0332C1H8R2CA01#	
				±0.5pF	GRM0332C1H8R2DA01#	
			8.3pF		GRM0332C1H8R3WA01#	
			0.501	±0.05pi	GRM0332C1H8R3BA01#	
				<u> </u>		
				<u> </u>	GRM0332C1H8R3CA01#	
			-	±0.5pF	GRM0332C1H8R3DA01#	
			8.4pF	±0.05pF	GRM0332C1H8R4WA01#	
				±0.1pF	GRM0332C1H8R4BA01#	
				±0.25pF	GRM0332C1H8R4CA01#	
		-		±0.5pF	GRM0332C1H8R4DA01#	
			8.5pF	±0.05pF	GRM0332C1H8R5WA01#	
				±0.1pF	GRM0332C1H8R5BA01#	
				±0.25pF	GRM0332C1H8R5CA01#	
				±0.5pF	GRM0332C1H8R5DA01#	
			8.6pF	±0.05pF	GRM0332C1H8R6WA01#	
				±0.1pF	GRM0332C1H8R6BA01#	
				±0.25pF	GRM0332C1H8R6CA01#	
				±0.5pF	GRM0332C1H8R6DA01#	
			8.7pF	±0.05pF	GRM0332C1H8R7WA01#	
				±0.1pF	GRM0332C1H8R7BA01#	
					GRM0332C1H8R7CA01#	
				±0.5pF	GRM0332C1H8R7DA01#	
			8.8pF		GRM0332C1H8R8WA01#	
			0.0рі	±0.05pF		
				±0.1pF	GRM0332C1H8R8BA01#	
				<u> </u>	GRM0332C1H8R8CA01#	
				±0.5pF	GRM0332C1H8R8DA01#	
			8.9pF	·	GRM0332C1H8R9WA01#	
				±0.1pF	GRM0332C1H8R9BA01#	
				±0.25pF	GRM0332C1H8R9CA01#	
				±0.5pF	GRM0332C1H8R9DA01#	
			9.0pF	±0.05pF	GRM0332C1H9R0WA01#	
				±0.1pF	GRM0332C1H9R0BA01#	
				±0.25pF	GRM0332C1H9R0CA01#	
				±0.5pF	GRM0332C1H9R0DA01#	
			9.1pF	±0.05pF	GRM0332C1H9R1WA01#	
				±0.1pF	GRM0332C1H9R1BA01#	
					GRM0332C1H9R1CA01#	
				±0.5pF	GRM0332C1H9R1DA01#	
			9.2pF	±0.05pF	GRM0332C1H9R2WA01#	
			P.	±0.1pF	GRM0332C1H9R2BA01#	
				-	GRM0332C1H9R2CA01#	
				±0.25pF		
			00.5	±0.5pF	GRM0332C1H9R2DA01#	
			9.3pF	· ·	GRM0332C1H9R3WA01#	
				±0.1pF	GRM0332C1H9R3BA01#	
				±0.25pF	GRM0332C1H9R3CA01#	

T max.	Rated Voltage	TC Code	Сар.	Tol.	Part Number
0.33mm	50Vdc	СН	9.3pF	±0.5pF	GRM0332C1H9R3DA01#
			9.4pF	±0.05pF	GRM0332C1H9R4WA01#
		ge Code		±0.1pF	GRM0332C1H9R4BA01#
				±0.25pF	GRM0332C1H9R4CA01#
				±0.5pF	GRM0332C1H9R4DA01#
			9.5pF	±0.05pF	GRM0332C1H9R5WA01#
				±0.1pF	GRM0332C1H9R5BA01#
				±0.25pF	GRM0332C1H9R5CA01#
				±0.5pF	GRM0332C1H9R5DA01#
			9.6pF	±0.05pF	GRM0332C1H9R6WA01#
			0.001	±0.1pF	GRM0332C1H9R6BA01#
				-	GRM0332C1H9R6CA01#
				±0.25pF	
			0.7.5	±0.5pF	GRM0332C1H9R6DA01#
			9.7pF	±0.05pF	GRM0332C1H9R7WA01#
				±0.1pF	GRM0332C1H9R7BA01#
				±0.25pF	GRM0332C1H9R7CA01#
				±0.5pF	GRM0332C1H9R7DA01#
			9.8pF	±0.05pF	GRM0332C1H9R8WA01#
				±0.1pF	GRM0332C1H9R8BA01#
				±0.25pF	GRM0332C1H9R8CA01#
				±0.5pF	GRM0332C1H9R8DA01#
			9.9pF	±0.05pF	GRM0332C1H9R9WA01#
				±0.1pF	GRM0332C1H9R9BA01#
				±0.25pF	GRM0332C1H9R9CA01#
				±0.5pF	GRM0332C1H9R9DA01#
			10pF	±2%	GRM0332C1H100GA01#
			•	±5%	GRM0332C1H100JA01#
			12pF	±2%	GRM0332C1H120GA01#
			p.	±5%	GRM0332C1H120JA01#
			15pF	±2%	GRM0332C1H150GA01#
			тэрг		
			10	±5%	GRM0332C1H150JA01#
			18pF	±2%	GRM0332C1H180GA01#
				±5%	GRM0332C1H180JA01#
			22pF	±2%	GRM0332C1H220GA01#
				±5%	GRM0332C1H220JA01#
			27pF	±2%	GRM0332C1H270GA01#
				±5%	GRM0332C1H270JA01#
			33pF	±2%	GRM0332C1H330GA01#
				±5%	GRM0332C1H330JA01#
			39pF	±2%	GRM0332C1H390GA01#
				±5%	GRM0332C1H390JA01#
			47pF	±2%	GRM0332C1H470GA01#
				±5%	GRM0332C1H470JA01#
			56pF	±2%	GRM0332C1H560GA01#
				±5%	GRM0332C1H560JA01#
			68pF	±2%	GRM0332C1H680GA01#
			COPI	±5%	GRM0332C1H680JA01#
			82n⊑		
			82pF	±2%	GRM0332C1H820GA01#
			105 =	±5%	GRM0332C1H820JA01#
			100pF	±2%	GRM0332C1H101GA01#
				±5%	GRM0332C1H101JA01#
		UK	1.0pF	±0.25pF	GRM0334U1H1R0CD01#
			2.0pF	±0.25pF	GRM0334U1H2R0CD01#
		UJ	3.0pF	±0.25pF	GRM0333U1H3R0CD01#

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number
0.33mm	50Vdc	UJ	4.0pF	±0.25pF	GRM0333U1H4R0CD01#
			5.0pF	±0.25pF	GRM0333U1H5R0CD01#
			6.0pF	±0.5pF	GRM0333U1H6R0DD01#
			7.0pF	±0.5pF	GRM0333U1H7R0DD01#
			8.0pF	±0.5pF	GRM0333U1H8R0DD01#
			9.0pF	±0.5pF	GRM0333U1H9R0DD01#
			10pF	±5%	GRM0333U1H100JD01#
			12pF	±5%	GRM0333U1H120JD01#
			15pF	±5%	GRM0333U1H150JD01#
	25Vdc	R2H	1.0pF	±0.25pF	GRM0336R1E1R0CD01#
			2.0pF	±0.25pF	GRM0336R1E2R0CD01#
			3.0pF	±0.25pF	GRM0336R1E3R0CD01#
			4.0pF	±0.25pF	GRM0336R1E4R0CD01#
			5.0pF	±0.25pF	GRM0336R1E5R0CD01#
			6.0pF	±0.5pF	GRM0336R1E6R0DD01#
			7.0pF	±0.5pF	GRM0336R1E7R0DD01#
			8.0pF	±0.5pF	GRM0336R1E8R0DD01#
			9.0pF	±0.5pF	GRM0336R1E9R0DD01#
			10pF	±5%	GRM0336R1E100JD01#
			12pF	±5%	GRM0336R1E120JD01#
			15pF	±5%	GRM0336R1E150JD01#
			18pF	±5%	GRM0336R1E180JD01#
			22pF	±5%	GRM0336R1E220JD01#
			27pF	±5%	GRM0336R1E270JD01#
			33pF	±5%	GRM0336R1E330JD01#
			39pF	±5%	GRM0336R1E390JD01#
			47pF	±5%	GRM0336R1E470JD01#
			56pF	±5%	GRM0336R1E560JD01#
			68pF	±5%	GRM0336R1E680JD01#
			82pF	±5%	GRM0336R1E820JD01#
			100pF	±5%	GRM0336R1E101JD01#
		RK	1.0pF	±0.25pF	GRM0334R1E1R0CD01#
			2.0pF	±0.25pF	GRM0334R1E2R0CD01#
		RJ	3.0pF	±0.25pF	GRM0333R1E3R0CD01#
		RH	4.0pF	±0.25pF	GRM0332R1E4R0CD01#
			5.0pF	±0.25pF	GRM0332R1E5R0CD01#
			6.0pF	±0.5pF	GRM0332R1E6R0DD01#
			7.0pF	±0.5pF	GRM0332R1E7R0DD01#
			8.0pF	±0.5pF	GRM0332R1E8R0DD01#
			9.0pF	±0.5pF	GRM0332R1E9R0DD01#
			10pF	±5%	GRM0332R1E100JD01#
			12pF	±5%	GRM0332R1E120JD01#
			15pF	±5%	GRM0332R1E150JD01#
			18pF	±5%	GRM0332R1E180JD01#
			22pF	±5%	GRM0332R1E220JD01#
			27pF	±5%	GRM0332R1E270JD01#
			33pF	±5%	GRM0332R1E330JD01#
			39pF	±5%	GRM0332R1E390JD01#
			47pF	±5%	GRM0332R1E470JD01#
			56pF	±5%	GRM0332R1E560JD01#
			68pF	±5%	GRM0332R1E680JD01#
			82pF	±5%	GRM0332R1E820JD01#
			100pF	±5%	GRM0332R1E101JD01#
		S2H	1.0pF	±0.25pF	GRM0336S1E1R0CD01#
	<u> </u>				cates the package specification code.

(→ **■** 0.6×0.3mm)

T max.	Rated Voltage	TC Code	Сар.	Tol.	Part Number
0.33mm	25Vdc	S2H	2.0pF	±0.25pF	GRM0336S1E2R0CD01#
			3.0pF	±0.25pF	GRM0336S1E3R0CD01#
			4.0pF	±0.25pF	GRM0336S1E4R0CD01#
			5.0pF	±0.25pF	GRM0336S1E5R0CD01#
			6.0pF	±0.5pF	GRM0336S1E6R0DD01#
			7.0pF	±0.5pF	GRM0336S1E7R0DD01#
			8.0pF	±0.5pF	GRM0336S1E8R0DD01#
			9.0pF	±0.5pF	GRM0336S1E9R0DD01#
			10pF	±5%	GRM0336S1E100JD01#
			12pF	±5%	GRM0336S1E120JD01#
			15pF	±5%	GRM0336S1E150JD01#
			18pF	±5%	GRM0336S1E180JD01#
			22pF	±5%	GRM0336S1E220JD01#
			27pF	±5%	GRM0336S1E270JD01#
			33pF	±5%	GRM0336S1E330JD01#
			39pF	±5%	GRM0336S1E390JD01#
			47pF	±5%	GRM0336S1E470JD01#
			56pF	±5%	GRM0336S1E560JD01#
			68pF	±5%	GRM0336S1E680JD01#
			82pF	±5%	GRM0336S1E820JD01#
			100pF	±5%	GRM0336S1E101JD01#
		SK	1.0pF	±0.25pF	GRM0334S1E1R0CD01#
			2.0pF	±0.25pF	GRM0334S1E2R0CD01#
		SJ	3.0pF	±0.25pF	GRM0333S1E3R0CD01#
		SH	4.0pF	±0.25pF	GRM0332S1E4R0CD01#
			5.0pF	±0.25pF	GRM0332S1E5R0CD01#
			6.0pF	±0.5pF	GRM0332S1E6R0DD01#
			7.0pF	±0.5pF	GRM0332S1E7R0DD01#
			8.0pF	±0.5pF	GRM0332S1E8R0DD01#
			9.0pF	±0.5pF	GRM0332S1E9R0DD01#
			10pF	±5%	GRM0332S1E100JD01#
			12pF	±5%	GRM0332S1E120JD01#
			15pF	±5%	GRM0332S1E150JD01#
			18pF	±5%	GRM0332S1E180JD01#
			22pF	±5%	GRM0332S1E220JD01#
			27pF	±5%	GRM0332S1E270JD01#
			33pF	±5%	GRM0332S1E330JD01#
			39pF	±5%	GRM0332S1E390JD01#
			47pF	±5%	GRM0332S1E470JD01#
			56pF	±5%	GRM0332S1E560JD01#
			68pF	±5%	GRM0332S1E680JD01#
			82pF	±5%	GRM0332S1E820JD01#
			100pF	±5%	GRM0332S1E101JD01#
		T2H	1.0pF	±0.25pF	GRM0336T1E1R0CD01#
			2.0pF	±0.25pF	GRM0336T1E2R0CD01#
			3.0pF	±0.25pF	GRM0336T1E3R0CD01#
			4.0pF	±0.25pF	
			5.0pF	±0.25pF	GRM0336T1E5R0CD01#
			6.0pF	±0.5pF	GRM0336T1E6R0DD01#
			7.0pF	±0.5pF	GRM0336T1E7R0DD01#
			8.0pF	±0.5pF	GRM0336T1E8R0DD01#
			9.0pF	±0.5pF	GRM0336T1E9R0DD01#
			10pF	±5%	GRM0336T1E100JD01#
			12pF	±5%	GRM0336T1E120JD01#
			12pr	£0.%	G11W00001 TE12UUDU I#

T max.	Rated Voltage	TC Code	Сар.	Tol.	Part Number
0.33mm	25Vdc	T2H	15pF	±5%	GRM0336T1E150JD01#
			18pF	±5%	GRM0336T1E180JD01#
			22pF	±5%	GRM0336T1E220JD01#
			27pF	±5%	GRM0336T1E270JD01#
			33pF	±5%	GRM0336T1E330JD01#
			39pF	±5%	GRM0336T1E390JD01#
			47pF	±5%	GRM0336T1E470JD01#
			56pF	±5%	GRM0336T1E560JD01#
			68pF	±5%	GRM0336T1E680JD01#
			82pF	±5%	GRM0336T1E820JD01#
			100pF	±5%	GRM0336T1E101JD01#
		TK	1.0pF	±0.25pF	GRM0334T1E1R0CD01#
			2.0pF	±0.25pF	GRM0334T1E2R0CD01#
		TJ	3.0pF	±0.25pF	GRM0333T1E3R0CD01#
		TH	4.0pF	±0.25pF	GRM0332T1E4R0CD01#
			5.0pF	±0.25pF	GRM0332T1E5R0CD01#
			6.0pF	±0.5pF	GRM0332T1E6R0DD01#
			7.0pF	±0.5pF	GRM0332T1E7R0DD01#
			8.0pF	±0.5pF	GRM0332T1E8R0DD01#
			9.0pF	±0.5pF	GRM0332T1E9R0DD01#
			10pF	±5%	GRM0332T1E100JD01#
			12pF	±5%	GRM0332T1E120JD01#
			15pF	±5%	GRM0332T1E150JD01#
			18pF	±5%	GRM0332T1E180JD01#
			22pF	±5%	GRM0332T1E220JD01#
			27pF	±5%	GRM0332T1E270JD01#
			33pF	±5%	GRM0332T1E330JD01#
			39pF	±5%	GRM0332T1E390JD01#
			47pF	±5%	GRM0332T1E470JD01#
			56pF	±5%	GRM0332T1E560JD01#
			68pF	±5%	GRM0332T1E680JD01#
			82pF	±5%	GRM0332T1E820JD01#
			100pF	±5%	GRM0332T1E101JD01#
		UJ	18pF	±5%	GRM0333U1E180JD01#
			22pF	±5%	GRM0333U1E220JD01#
			27pF	±5%	GRM0333U1E270JD01#
			33pF	±5%	GRM0333U1E330JD01#
			39pF	±5%	GRM0333U1E390JD01#
			47pF	±5%	GRM0333U1E470JD01#
			56pF	±5%	GRM0333U1E560JD01#
			68pF	±5%	GRM0333U1E680JD01#
			82pF	±5%	GRM0333U1E820JD01#
			100pF	±5%	GRM0333U1E101JD01#

■ 1.0×0.5mm

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number
0.33mm 5	50Vdc	COG	0.1pF	±0.1pF	GRM1535C1HR10BDD5#
			0.2pF	±0.1pF	GRM1535C1HR20BDD5#
			0.3pF	±0.1pF	GRM1535C1HR30BDD5#
			0.4pF	±0.1pF	GRM1535C1HR40BDD5#
			0.5pF	±0.1pF	GRM1535C1HR50BDD5#
			0.6pF	±0.1pF	GRM1535C1HR60BDD5#

Part number # indicates the package specification code.



Т

max. 0.33mm

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number
0.33mm	50Vdc	COG	0.7pF	±0.1pF	GRM1535C1HR70BDD5#
			0.8pF	±0.1pF	GRM1535C1HR80BDD5#
			0.9pF	±0.1pF	GRM1535C1HR90BDD5#
			1.0pF	±0.25pF	GRM1535C1H1R0CDD5#
			1.1pF	±0.25pF	GRM1535C1H1R1CDD5#
			1.2pF	±0.25pF	GRM1535C1H1R2CDD5#
			1.3pF	±0.25pF	GRM1535C1H1R3CDD5#
			1.4pF	±0.25pF	GRM1535C1H1R4CDD5#
			1.5pF	±0.25pF	GRM1535C1H1R5CDD5#
			1.6pF	±0.25pF	GRM1535C1H1R6CDD5#
			1.7pF	±0.25pF	GRM1535C1H1R7CDD5#
			1.8pF	±0.25pF	GRM1535C1H1R8CDD5#
			1.9pF	±0.25pF	GRM1535C1H1R9CDD5#
			2.0pF	±0.25pF	GRM1535C1H2R0CDD5#
			2.1pF	±0.25pF	GRM1535C1H2R1CDD5#
			2.2pF	±0.25pF	GRM1535C1H2R2CDD5#
			2.3pF	±0.25pF	GRM1535C1H2R3CDD5#
			2.4pF	±0.25pF	
			2.5pF	±0.25pF	
			2.6pF	±0.25pF	GRM1535C1H2R6CDD5#
			2.7pF	±0.25pF	GRM1535C1H2R7CDD5#
			2.8pF	±0.25pF	GRM1535C1H2R8CDD5#
			2.9pF	±0.25pF	GRM1535C1H2R9CDD5#
			3.0pF	±0.25pF	
			3.1pF	±0.25pF	
			3.2pF	±0.25pF	
			3.3pF	±0.25pF	GRM1535C1H3R3CDD5#
			3.4pF	±0.25pF	GRM1535C1H3R4CDD5#
			3.5pF	±0.25pF	GRM1535C1H3R5CDD5#
			3.6pF	±0.25pF	
			3.7pF	±0.25pF	
			3.8pF	±0.25pF	GRM1535C1H3R8CDD5#
			3.9pF	±0.25pF	GRM1535C1H3R9CDD5#
			4.0pF	±0.25pF	
			4.1pF	±0.25pF	
			4.1pi	±0.25pF	GRM1535C1H4R2CDD5#
			4.2pF	±0.25pF	
			4.3pF 4.4pF	±0.25pF	
			4.4pF 4.5pF	±0.25pF	
			4.6pF	±0.25pF	
			4.0pF	±0.25pF	
				±0.25pF	
			4.8pF 4.9pF	-	GRM1535C1H4R9CDD5#
			4.9pF	±0.25pF	GRM1535C1H4R9CDD5#
			5.0pF	±0.25pF	
			5.1pF	±0.5pF	GRM1535C1H5R1DDD5#
			5.2pF	±0.5pF	GRM1535C1H5R2DDD5#
			5.3pF	±0.5pF	GRM1535C1H5R3DDD5#
			5.4pF	±0.5pF	GRM1535C1H5R4DDD5#
			5.5pF	±0.5pF	GRM1535C1H5R5DDD5#
			5.6pF	±0.5pF	GRM1535C1H5R6DDD5#
			5.7pF	±0.5pF	GRM1535C1H5R7DDD5#
			5.8pF	±0.5pF	GRM1535C1H5R8DDD5#
			5.9pF	±0.5pF	GRM1535C1H5R9DDD5#
			6.0pF	±0.5pF	GRM1535C1H6R0DDD5#

Rated Voltage	TC Code	Сар.	Tol.	Part Number	
50Vdc	COG	6.1pF	±0.5pF	GRM1535C1H6R1DDD5#	
		6.2pF	±0.5pF	GRM1535C1H6R2DDD5#	
		6.3pF	±0.5pF	GRM1535C1H6R3DDD5#	
		6.4pF	±0.5pF	GRM1535C1H6R4DDD5#	
		6.5pF	±0.5pF	GRM1535C1H6R5DDD5#	
		6.6pF	±0.5pF	GRM1535C1H6R6DDD5#	
		6.7pF	±0.5pF	GRM1535C1H6R7DDD5#	
		6.8pF	±0.5pF	GRM1535C1H6R8DDD5#	
		6.9pF	±0.5pF	GRM1535C1H6R9DDD5#	
		7.0pF	±0.5pF	GRM1535C1H7R0DDD5#	
		7.1pF	±0.5pF	GRM1535C1H7R1DDD5#	
		7.2pF	±0.5pF	GRM1535C1H7R2DDD5#	
		7.3pF	±0.5pF	GRM1535C1H7R3DDD5#	
		7.4pF	±0.5pF	GRM1535C1H7R4DDD5#	
		7.5pF	±0.5pF	GRM1535C1H7R5DDD5#	
		7.6pF	±0.5pF	GRM1535C1H7R6DDD5#	
		7.7pF	±0.5pF	GRM1535C1H7R7DDD5#	
		7.8pF	±0.5pF	GRM1535C1H7R8DDD5#	
		7.9pF	±0.5pF	GRM1535C1H7R9DDD5#	
		8.0pF	±0.5pF	GRM1535C1H8R0DDD5#	
		8.1pF	±0.5pF	GRM1535C1H8R1DDD5#	
		8.2pF	±0.5pF	GRM1535C1H8R2DDD5#	
		8.3pF	±0.5pF	GRM1535C1H8R3DDD5#	
		8.4pF	±0.5pF	GRM1535C1H8R4DDD5#	
		8.5pF	±0.5pF	GRM1535C1H8R5DDD5#	
		8.6pF	±0.5pF	GRM1535C1H8R6DDD5#	
		8.7pF	±0.5pF	GRM1535C1H8R7DDD5#	
		8.8pF	±0.5pF	GRM1535C1H8R8DDD5#	
		8.9pF	±0.5pF	GRM1535C1H8R9DDD5#	
		9.0pF	±0.5pF	GRM1535C1H9R0DDD5#	
		9.1pF	±0.5pF	GRM1535C1H9R1DDD5#	
		9.2pF	±0.5pF	GRM1535C1H9R2DDD5#	
		9.3pF	±0.5pF	GRM1535C1H9R3DDD5#	
		9.4pF	±0.5pF	GRM1535C1H9R4DDD5#	
		9.5pF	±0.5pF	GRM1535C1H9R5DDD5#	
		9.6pF	±0.5pF	GRM1535C1H9R6DDD5#	
		9.7pF	±0.5pF	GRM1535C1H9R7DDD5#	
		9.8pF	±0.5pF	GRM1535C1H9R8DDD5#	
		9.9pF	±0.5pF	GRM1535C1H9R9DDD5#	
		10pF	±5%	GRM1535C1H100JDD5#	
		12pF	±5%	GRM1535C1H120JDD5#	
		15pF	±5%	GRM1535C1H150JDD5#	
		18pF	±5%	GRM1535C1H180JDD5#	
		22pF	±5%	GRM1535C1H220JDD5#	
		27pF	±5%	GRM1535C1H270JDD5#	
		33pF	±5%	GRM1535C1H330JDD5#	
		39pF	±5%	GRM1535C1H390JDD5#	
		47pF	±5%	GRM1535C1H470JDD5#	
		56pF	±5%	GRM1535C1H560JDD5#	
		68pF	±5%	GRM1535C1H680JDD5#	
		82pF	±5%	GRM1535C1H820JDD5#	
		100pF	±5%	GRM1535C1H101JDD5#	
		120pF	±5%	GRM1535C1H121JDD5#	
		150pF	±5%	GRM1535C1H151JDD5#	
		Part nur	nber # indic	cates the package specification co	de.



T max.	Rated Voltage	TC Code	Сар.	Tol.	Part Number
0.33mm	50Vdc	COG	180pF	±5%	GRM1535C1H181JDD5#
			220pF	±5%	GRM1535C1H221JDD5#
			270pF	±5%	GRM1535C1H271JDD5#
			330pF	±5%	GRM1535C1H331JDD5#
			390pF	±5%	GRM1535C1H391JDD5#
			470pF	±5%	GRM1535C1H471JDD5#
			560pF	±5%	GRM1535C1H561JDD5#
			680pF	±5%	GRM1535C1H681JDD5#
		CK	0.1pF	±0.1pF	GRM1534C1HR10BDD5#
			0.2pF	±0.1pF	GRM1534C1HR20BDD5#
			0.3pF	±0.1pF	GRM1534C1HR30BDD5#
			0.4pF	±0.1pF	GRM1534C1HR40BDD5#
			0.5pF	±0.1pF	GRM1534C1HR50BDD5#
			0.6pF	±0.1pF	GRM1534C1HR60BDD5#
			0.7pF	±0.1pF	GRM1534C1HR70BDD5#
			0.8pF	±0.1pF	GRM1534C1HR80BDD5#
			0.9pF	±0.1pF	GRM1534C1HR90BDD5#
			1.0pF	±0.25pF	
			1.1pF	±0.25pF	
			1.2pF	±0.25pF	
				•	
			1.3pF	±0.25pF	GRM1534C1H1R3CDD5#
			1.4pF	±0.25pF	
			1.5pF	±0.25pF	
			1.6pF		
			1.7pF		
			1.8pF	±0.25pF	
			1.9pF	±0.25pF	GRM1534C1H1R9CDD5#
			2.0pF	±0.25pF	GRM1534C1H2R0CDD5#
		CJ	2.1pF	±0.25pF	GRM1533C1H2R1CDD5#
			2.2pF	±0.25pF	GRM1533C1H2R2CDD5#
				2.3pF	±0.25pF
			2.4pF	±0.25pF	GRM1533C1H2R4CDD5#
			2.5pF	±0.25pF	GRM1533C1H2R5CDD5#
			2.6pF	±0.25pF	GRM1533C1H2R6CDD5#
			2.7pF	±0.25pF	GRM1533C1H2R7CDD5#
			2.8pF	±0.25pF	GRM1533C1H2R8CDD5#
			2.9pF	±0.25pF	GRM1533C1H2R9CDD5#
			3.0pF	±0.25pF	GRM1533C1H3R0CDD5#
			3.1pF	•	GRM1533C1H3R1CDD5#
			3.2pF		GRM1533C1H3R2CDD5#
			3.3pF		GRM1533C1H3R3CDD5#
			3.4pF	-	GRM1533C1H3R4CDD5#
			3.5pF	±0.25pF	
			3.6pF	±0.25pF	
			3.7pF	±0.25pF	
			3.8pF		GRM1533C1H3R8CDD5#
		6	3.9pF	-	GRM1533C1H3R9CDD5#
		СН	4.0pF	-	GRM1532C1H4R0CDD5#
			4.1pF	±0.25pF	GRM1532C1H4R1CDD5#
			4.2pF	±0.25pF	GRM1532C1H4R2CDD5#
			4.3pF	±0.25pF	GRM1532C1H4R3CDD5#
			4.4pF	±0.25pF	GRM1532C1H4R4CDD5#
			4.5pF	±0.25pF	GRM1532C1H4R5CDD5#
	l	l i	4.6pF	±0.25pF	GRM1532C1H4R6CDD5#

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number	
0.33mm	50Vdc	СН	4.7pF	±0.25pF	GRM1532C1H4R7CDD5#	
			4.8pF	±0.25pF	GRM1532C1H4R8CDD5#	
			4.9pF	±0.25pF	GRM1532C1H4R9CDD5#	
			5.0pF	±0.25pF	GRM1532C1H5R0CDD5#	
			5.1pF	±0.5pF	GRM1532C1H5R1DDD5#	
			5.2pF	±0.5pF	GRM1532C1H5R2DDD5#	
			5.3pF	±0.5pF	GRM1532C1H5R3DDD5#	
			5.4pF	±0.5pF	GRM1532C1H5R4DDD5#	
			5.5pF	±0.5pF	GRM1532C1H5R5DDD5#	
			5.6pF	±0.5pF	GRM1532C1H5R6DDD5#	
			5.7pF	±0.5pF	GRM1532C1H5R7DDD5#	
			5.8pF	±0.5pF	GRM1532C1H5R8DDD5#	
			5.9pF	±0.5pF	GRM1532C1H5R9DDD5#	
			6.0pF	±0.5pF	GRM1532C1H6R0DDD5#	
			6.1pF	±0.5pF	GRM1532C1H6R1DDD5#	
			6.2pF	±0.5pF	GRM1532C1H6R2DDD5#	
			6.3pF	±0.5pF	GRM1532C1H6R3DDD5#	
			6.4pF	±0.5pF	GRM1532C1H6R4DDD5#	
			6.5pF	±0.5pF	GRM1532C1H6R5DDD5#	
			6.6pF	±0.5pF	GRM1532C1H6R6DDD5#	
			6.7pF	±0.5pF	GRM1532C1H6R7DDD5#	
			6.8pF	±0.5pF	GRM1532C1H6R8DDD5#	
			6.9pF	±0.5pF	GRM1532C1H6R9DDD5#	
			7.0pF	±0.5pF	GRM1532C1H7R0DDD5#	
			7.1pF	±0.5pF	GRM1532C1H7R1DDD5#	
			7.2pF	±0.5pF	GRM1532C1H7R2DDD5#	
			7.3pF	±0.5pF	GRM1532C1H7R3DDD5#	
			7.4pF	±0.5pF	GRM1532C1H7R4DDD5#	
			7.5pF	±0.5pF	GRM1532C1H7R5DDD5#	
			7.6pF	±0.5pF	GRM1532C1H7R6DDD5#	
			7.7pF	±0.5pF	GRM1532C1H7R7DDD5#	
			7.8pF	±0.5pF	GRM1532C1H7R8DDD5#	
			7.9pF	±0.5pF	GRM1532C1H7R9DDD5#	
			8.0pF	±0.5pF	GRM1532C1H8R0DDD5#	
			8.1pF	±0.5pF	GRM1532C1H8R1DDD5#	
			8.2pF	±0.5pF	GRM1532C1H8R2DDD5#	
			8.3pF	±0.5pF	GRM1532C1H8R3DDD5#	
			8.4pF	±0.5pF	GRM1532C1H8R4DDD5#	
			8.5pF	±0.5pF	GRM1532C1H8R5DDD5#	
			8.6pF	±0.5pF	GRM1532C1H8R6DDD5#	
			8.7pF	±0.5pF	GRM1532C1H8R7DDD5#	
			8.8pF	±0.5pF	GRM1532C1H8R8DDD5#	
			8.9pF	±0.5pF	GRM1532C1H8R9DDD5#	
			9.0pF	±0.5pF	GRM1532C1H9R0DDD5#	
			9.1pF	±0.5pF	GRM1532C1H9R1DDD5#	
			9.2pF	±0.5pF	GRM1532C1H9R2DDD5#	
			9.3pF	±0.5pF	GRM1532C1H9R3DDD5#	
			9.4pF	±0.5pF	GRM1532C1H9R4DDD5#	
			9.5pF	±0.5pF	GRM1532C1H9R5DDD5#	
			9.6pF	±0.5pF	GRM1532C1H9R6DDD5#	
			9.7pF	±0.5pF	GRM1532C1H9R7DDD5#	
			9.8pF	±0.5pF	GRM1532C1H9R8DDD5#	
			9.9pF	±0.5pF	GRM1532C1H9R9DDD5#	
			10pF	±5%	GRM1532C1H100JDD5#	

(→ ■ 1	.0×0.5ı	mm)			
T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number
0.33mm	50Vdc	СН	12pF	±5%	GRM1532C1H120JDD5#
			15pF	±5%	GRM1532C1H150JDD5#
			18pF	±5%	GRM1532C1H180JDD5#
			22pF	±5%	GRM1532C1H220JDD5#
			27pF	±5%	GRM1532C1H270JDD5#
			33pF	±5%	GRM1532C1H330JDD5#
			39pF	±5%	GRM1532C1H390JDD5#
			47pF	±5%	GRM1532C1H470JDD5#
			56pF	±5%	GRM1532C1H560JDD5#
			68pF	±5%	GRM1532C1H680JDD5#
			82pF	±5%	GRM1532C1H820JDD5#
			100pF	±5%	GRM1532C1H101JDD5#
			120pF	±5%	GRM1532C1H121JDD5#
			150pF	±5%	GRM1532C1H151JDD5#
			180pF	±5%	GRM1532C1H181JDD5#
			220pF	±5%	GRM1532C1H221JDD5#
			270pF	±5%	GRM1532C1H271JDD5#
			330pF	±5%	GRM1532C1H331JDD5#
			390pF	±5%	GRM1532C1H391JDD5#
			470pF	±5%	GRM1532C1H471JDD5#
			560pF	±5%	GRM1532C1H561JDD5#
			680pF	±5%	GRM1532C1H681JDD5#
0.55mm	50Vdc	COG	0.1pF	±0.05pF	GRM1555C1HR10WA01#
				±0.1pF	GRM1555C1HR10BA01#
			0.2pF	±0.05pF	GRM1555C1HR20WA01#
				±0.1pF	GRM1555C1HR20BA01#
			0.3pF	±0.05pF	GRM1555C1HR30WA01#
			0.4.5	±0.1pF	GRM1555C1HR30BA01#
			0.4pF	±0.05pF	GRM1555C1HR40WA01#
			0.555	±0.1pF	GRM1555C1HR40BA01#
			0.5pF	±0.05pF	GRM1555C1HR50WA01# GRM1555C1HR50BA01#
			0.65	±0.1pF	
			0.6pF	±0.05pF ±0.1pF	GRM1555C1HR60WA01# GRM1555C1HR60BA01#
			0.7pF	±0.1pr	GRM1555C1HR70WA01#
			0.7 pi	±0.05pi	GRM1555C1HR70BA01#
			0.8pF	±0.05pF	GRM1555C1HR80WA01#
			0.001	±0.1pF	GRM1555C1HR80BA01#
			0.9pF	±0.05pF	GRM1555C1HR90WA01#
			0.00.	±0.1pF	GRM1555C1HR90BA01#
			1.0pF	±0.05pF	GRM1555C1H1R0WA01#
				±0.1pF	GRM1555C1H1R0BA01#
				±0.25pF	GRM1555C1H1R0CA01#
			1.1pF	±0.05pF	GRM1555C1H1R1WA01#
				±0.1pF	GRM1555C1H1R1BA01#
				±0.25pF	GRM1555C1H1R1CA01#
			1.2pF	±0.05pF	GRM1555C1H1R2WA01#
			is.	±0.1pF	GRM1555C1H1R2BA01#
				±0.25pF	GRM1555C1H1R2CA01#
			1.3pF	±0.05pF	GRM1555C1H1R3WA01#
				±0.1pF	GRM1555C1H1R3BA01#
				±0.25pF	GRM1555C1H1R3CA01#
			1.4pF	±0.05pF	GRM1555C1H1R4WA01#
				±0.1pF	GRM1555C1H1R4BA01#
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T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number
0.55mm	50Vdc	COG	1.4pF	±0.25pF	GRM1555C1H1R4CA01#
			1.5pF	±0.05pF	GRM1555C1H1R5WA01#
				±0.1pF	GRM1555C1H1R5BA01#
				±0.25pF	GRM1555C1H1R5CA01#
			1.6pF	±0.05pF	GRM1555C1H1R6WA01#
				±0.1pF	GRM1555C1H1R6BA01#
				±0.25pF	GRM1555C1H1R6CA01#
			1.7pF	±0.05pF	GRM1555C1H1R7WA01#
				±0.1pF	GRM1555C1H1R7BA01#
				±0.25pF	GRM1555C1H1R7CA01#
			1.8pF	±0.05pF	GRM1555C1H1R8WA01#
				±0.1pF	GRM1555C1H1R8BA01#
				±0.25pF	GRM1555C1H1R8CA01#
			1.9pF	±0.05pF	GRM1555C1H1R9WA01#
				±0.1pF	GRM1555C1H1R9BA01#
				±0.25pF	GRM1555C1H1R9CA01#
			2.0pF	±0.05pF	GRM1555C1H2R0WA01#
				±0.1pF	GRM1555C1H2R0BA01#
				±0.25pF	GRM1555C1H2R0CA01#
			2.1pF	±0.05pF	GRM1555C1H2R1WA01#
				±0.1pF	GRM1555C1H2R1BA01#
				±0.25pF	GRM1555C1H2R1CA01#
			2.2pF	±0.05pF	GRM1555C1H2R2WA01#
				±0.1pF	GRM1555C1H2R2BA01#
				±0.25pF	GRM1555C1H2R2CA01#
			2.3pF	±0.05pF	GRM1555C1H2R3WA01#
				±0.1pF	GRM1555C1H2R3BA01#
				±0.25pF	GRM1555C1H2R3CA01#
			2.4pF	±0.05pF	GRM1555C1H2R4WA01#
				±0.1pF	GRM1555C1H2R4BA01#
			0.5-5	±0.25pF	GRM1555C1H2R4CA01#
			2.5pF	±0.05pF	GRM1555C1H2R5WA01#
				±0.1pF	GRM1555C1H2R5BA01# GRM1555C1H2R5CA01#
			2655	±0.25pF	GRM1555C1H2R6WA01#
			2.6pF	±0.05pF ±0.1pF	GRM1555C1H2R6BA01#
				±0.1pi	
			2.7pF	±0.05pF	GRM1555C1H2R7WA01#
			2.7 βι	±0.05pi	GRM1555C1H2R7BA01#
				±0.25pF	GRM1555C1H2R7CA01#
			2.8pF	±0.05pF	GRM1555C1H2R8WA01#
			2.001	±0.1pF	GRM1555C1H2R8BA01#
				±0.25pF	GRM1555C1H2R8CA01#
			2.9pF	±0.05pF	GRM1555C1H2R9WA01#
				±0.1pF	GRM1555C1H2R9BA01#
				±0.25pF	GRM1555C1H2R9CA01#
			3.0pF	±0.05pF	GRM1555C1H3R0WA01#
				±0.1pF	GRM1555C1H3R0BA01#
				±0.25pF	GRM1555C1H3R0CA01#
			3.1pF	±0.05pF	GRM1555C1H3R1WA01#
				±0.1pF	GRM1555C1H3R1BA01#
				±0.25pF	GRM1555C1H3R1CA01#
			3.2pF	±0.05pF	GRM1555C1H3R2WA01#
				±0.1pF	GRM1555C1H3R2BA01#
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T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number
0.55mm	50Vdc	COG	3.2pF	±0.25pF	GRM1555C1H3R2CA01#
			3.3pF	±0.05pF	GRM1555C1H3R3WA01#
				±0.1pF	GRM1555C1H3R3BA01#
				±0.25pF	GRM1555C1H3R3CA01#
			3.4pF	±0.05pF	GRM1555C1H3R4WA01#
				±0.1pF	GRM1555C1H3R4BA01#
				±0.25pF	GRM1555C1H3R4CA01#
			3.5pF	±0.05pF	GRM1555C1H3R5WA01#
				±0.1pF	GRM1555C1H3R5BA01#
				±0.25pF	GRM1555C1H3R5CA01#
			3.6pF	±0.05pF	GRM1555C1H3R6WA01#
			о.орг	±0.1pF	GRM1555C1H3R6BA01#
			0.7-5	±0.25pF	GRM1555C1H3R6CA01#
			3.7pF	±0.05pF	GRM1555C1H3R7WA01#
				±0.1pF	GRM1555C1H3R7BA01#
			0	±0.25pF	GRM1555C1H3R7CA01#
			3.8pF	±0.05pF	GRM1555C1H3R8WA01#
				±0.1pF	GRM1555C1H3R8BA01#
				±0.25pF	GRM1555C1H3R8CA01#
			3.9pF	±0.05pF	GRM1555C1H3R9WA01#
				±0.1pF	GRM1555C1H3R9BA01#
				±0.25pF	GRM1555C1H3R9CA01#
			4.0pF	±0.05pF	GRM1555C1H4R0WA01#
				±0.1pF	GRM1555C1H4R0BA01#
				±0.25pF	GRM1555C1H4R0CA01#
			4.1pF	±0.05pF	GRM1555C1H4R1WA01#
				±0.1pF	GRM1555C1H4R1BA01#
				±0.25pF	GRM1555C1H4R1CA01#
			4.2pF	±0.05pF	GRM1555C1H4R2WA01#
			•	±0.1pF	GRM1555C1H4R2BA01#
				±0.25pF	GRM1555C1H4R2CA01#
			4.3pF	±0.05pF	GRM1555C1H4R3WA01#
				±0.1pF	GRM1555C1H4R3BA01#
				±0.25pF	GRM1555C1H4R3CA01#
			4.4pF		GRM1555C1H4R4WA01#
			4.4pr	±0.05pF	
				±0.1pF	GRM1555C1H4R4BA01#
			4	±0.25pF	GRM1555C1H4R4CA01#
			4.5pF	±0.05pF	GRM1555C1H4R5WA01#
				±0.1pF	GRM1555C1H4R5BA01#
				±0.25pF	GRM1555C1H4R5CA01#
			4.6pF	±0.05pF	GRM1555C1H4R6WA01#
				±0.1pF	GRM1555C1H4R6BA01#
				±0.25pF	GRM1555C1H4R6CA01#
			4.7pF	±0.05pF	GRM1555C1H4R7WA01#
				±0.1pF	GRM1555C1H4R7BA01#
				±0.25pF	GRM1555C1H4R7CA01#
			4.8pF	±0.05pF	GRM1555C1H4R8WA01#
				±0.1pF	GRM1555C1H4R8BA01#
				±0.25pF	GRM1555C1H4R8CA01#
			4.9pF	±0.05pF	GRM1555C1H4R9WA01#
			1-	±0.1pF	GRM1555C1H4R9BA01#
				±0.25pF	GRM1555C1H4R9CA01#
			5.0pF	±0.25pi	GRM1555C1H5R0WA01#
		1	J.Upi	±0.00pi	S IOOOO IIIOIION AUIT

T max.	Rated Voltage	TC Code	Сар.	Tol.	Part Number	
0.55mm	50Vdc	COG	5.0pF	±0.25pF	GRM1555C1H5R0CA01#	
			5.1pF	±0.05pF	GRM1555C1H5R1WA01#	
				±0.1pF	GRM1555C1H5R1BA01#	
				±0.25pF	GRM1555C1H5R1CA01#	
				±0.5pF	GRM1555C1H5R1DA01#	
			5.2pF	±0.05pF	GRM1555C1H5R2WA01#	
				±0.1pF	GRM1555C1H5R2BA01#	
				±0.25pF	GRM1555C1H5R2CA01#	
				±0.5pF	GRM1555C1H5R2DA01#	
			5.3pF	±0.05pF	GRM1555C1H5R3WA01#	
				±0.1pF	GRM1555C1H5R3BA01#	
				±0.25pF	GRM1555C1H5R3CA01#	
				±0.5pF	GRM1555C1H5R3DA01#	
			5.4pF	±0.05pF	GRM1555C1H5R4WA01#	
				±0.1pF	GRM1555C1H5R4BA01#	
				±0.25pF	GRM1555C1H5R4CA01#	
				±0.5pF	GRM1555C1H5R4DA01#	
			5.5pF	±0.05pF	GRM1555C1H5R5WA01#	
				±0.1pF	GRM1555C1H5R5BA01#	
				±0.25pF	GRM1555C1H5R5CA01#	
				±0.5pF	GRM1555C1H5R5DA01#	
			5.6pF	±0.05pF	GRM1555C1H5R6WA01#	
				±0.1pF	GRM1555C1H5R6BA01#	
				±0.25pF	GRM1555C1H5R6CA01#	
			5.7pF	±0.5pF	GRM1555C1H5R6DA01# GRM1555C1H5R7WA01#	
			3.7pi	±0.05pF ±0.1pF	GRM1555C1H5R7BA01#	
				±0.25pF	GRM1555C1H5R7CA01#	
				±0.5pF	GRM1555C1H5R7DA01#	
			5.8pF	±0.05pF	GRM1555C1H5R8WA01#	
				±0.1pF	GRM1555C1H5R8BA01#	
				±0.25pF	GRM1555C1H5R8CA01#	
				±0.5pF	GRM1555C1H5R8DA01#	
			5.9pF	±0.05pF	GRM1555C1H5R9WA01#	
			•	±0.1pF	GRM1555C1H5R9BA01#	
				±0.25pF	GRM1555C1H5R9CA01#	
				±0.5pF	GRM1555C1H5R9DA01#	
			6.0pF	±0.05pF	GRM1555C1H6R0WA01#	
				±0.1pF	GRM1555C1H6R0BA01#	
				±0.25pF	GRM1555C1H6R0CA01#	
				±0.5pF	GRM1555C1H6R0DA01#	
			6.1pF	±0.05pF	GRM1555C1H6R1WA01#	
				±0.1pF	GRM1555C1H6R1BA01#	
				±0.25pF	GRM1555C1H6R1CA01#	
				±0.5pF	GRM1555C1H6R1DA01#	
			6.2pF	±0.05pF	GRM1555C1H6R2WA01#	
				±0.1pF	GRM1555C1H6R2BA01#	
				±0.25pF	GRM1555C1H6R2CA01#	
				±0.5pF	GRM1555C1H6R2DA01#	
			6.3pF	±0.05pF	GRM1555C1H6R3WA01#	
				±0.1pF	GRM1555C1H6R3BA01#	
				±0.25pF	GRM1555C1H6R3CA01#	
				±0.5pF	GRM1555C1H6R3DA01#	
			6.4pF	±0.05pF	GRM1555C1H6R4WA01#	

T max.	Rated Voltage	TC Code	Сар.	Tol.	Part Number	
0.55mm	50Vdc	COG	6.4pF	±0.1pF	GRM1555C1H6R4BA01#	
				±0.25pF	GRM1555C1H6R4CA01#	
				±0.5pF	GRM1555C1H6R4DA01#	
			6.5pF	±0.05pF	GRM1555C1H6R5WA01#	
				±0.1pF	GRM1555C1H6R5BA01#	
				±0.25pF	GRM1555C1H6R5CA01#	
				±0.5pF	GRM1555C1H6R5DA01#	
			6.6pF	±0.05pF	GRM1555C1H6R6WA01#	
			0.0р1	±0.1pF	GRM1555C1H6R6BA01#	
				±0.25pF	GRM1555C1H6R6CA01#	
				-	GRM1555C1H6R6DA01#	
			C 75F	±0.5pF		
			6.7pF	±0.05pF		
				±0.1pF	GRM1555C1H6R7BA01#	
				±0.25pF	GRM1555C1H6R7CA01#	
				±0.5pF	GRM1555C1H6R7DA01#	
			6.8pF	±0.05pF	GRM1555C1H6R8WA01#	
				±0.1pF	GRM1555C1H6R8BA01#	
				±0.25pF	GRM1555C1H6R8CA01#	
				±0.5pF	GRM1555C1H6R8DA01#	
			6.9pF	±0.05pF	GRM1555C1H6R9WA01#	
				±0.1pF	GRM1555C1H6R9BA01#	
				±0.25pF	GRM1555C1H6R9CA01#	
				±0.5pF	GRM1555C1H6R9DA01#	
			7.0pF	±0.05pF	GRM1555C1H7R0WA01#	
				±0.1pF	GRM1555C1H7R0BA01#	
				±0.25pF	GRM1555C1H7R0CA01#	
				±0.5pF	GRM1555C1H7R0DA01#	
				7.1pF	±0.05pF	GRM1555C1H7R1WA01#
				±0.1pF	GRM1555C1H7R1BA01#	
				±0.25pF	GRM1555C1H7R1CA01#	
				±0.5pF	GRM1555C1H7R1DA01#	
			7.2pF	±0.05pF	GRM1555C1H7R2WA01#	
				±0.1pF	GRM1555C1H7R2BA01#	
				±0.25pF	GRM1555C1H7R2CA01#	
				±0.5pF	GRM1555C1H7R2DA01#	
			7.3pF	±0.05pF		
			7.5pi	±0.05pi	GRM1555C1H7R3BA01#	
				-		
				±0.25pF		
			7.4-5	±0.5pF	GRM1555C1H7R3DA01#	
			7.4pF	±0.05pF	GRM1555C1H7R4WA01#	
				±0.1pF	GRM1555C1H7R4BA01#	
				±0.25pF	GRM1555C1H7R4CA01#	
				±0.5pF	GRM1555C1H7R4DA01#	
			7.5pF	±0.05pF	GRM1555C1H7R5WA01#	
				±0.1pF	GRM1555C1H7R5BA01#	
				±0.25pF	GRM1555C1H7R5CA01#	
				±0.5pF	GRM1555C1H7R5DA01#	
			7.6pF	±0.05pF	GRM1555C1H7R6WA01#	
				±0.1pF	GRM1555C1H7R6BA01#	
				±0.25pF	GRM1555C1H7R6CA01#	
				±0.5pF	GRM1555C1H7R6DA01#	
			7.7pF	±0.05pF	GRM1555C1H7R7WA01#	
		ı				
				±0.1pF	GRM1555C1H7R7BA01#	

T max.	Rated Voltage	TC Code	Сар.	Tol.	Part Number
0.55mm	50Vdc	COG	7.7pF	±0.5pF	GRM1555C1H7R7DA01#
			7.8pF	±0.05pF	GRM1555C1H7R8WA01#
				±0.1pF	GRM1555C1H7R8BA01#
				±0.25pF	GRM1555C1H7R8CA01#
				±0.5pF	GRM1555C1H7R8DA01#
			7.9pF	±0.05pF	GRM1555C1H7R9WA01#
				±0.1pF	GRM1555C1H7R9BA01#
				±0.25pF	GRM1555C1H7R9CA01#
				±0.5pF	GRM1555C1H7R9DA01#
			8.0pF	±0.05pF	GRM1555C1H8R0WA01#
				±0.1pF	GRM1555C1H8R0BA01#
				±0.25pF	GRM1555C1H8R0CA01#
				±0.5pF	GRM1555C1H8R0DA01#
			8.1pF	±0.05pF	GRM1555C1H8R1WA01#
				±0.1pF	GRM1555C1H8R1BA01#
				±0.25pF	GRM1555C1H8R1CA01#
				±0.5pF	GRM1555C1H8R1DA01#
			8.2pF	±0.05pF	GRM1555C1H8R2WA01#
				±0.1pF	GRM1555C1H8R2BA01#
				±0.25pF	GRM1555C1H8R2CA01#
				±0.5pF	GRM1555C1H8R2DA01#
			8.3pF	±0.05pF	GRM1555C1H8R3WA01#
				±0.1pF	GRM1555C1H8R3BA01#
				±0.25pF	GRM1555C1H8R3CA01#
				±0.5pF	GRM1555C1H8R3DA01#
			8.4pF	±0.05pF	GRM1555C1H8R4WA01#
				±0.1pF	GRM1555C1H8R4BA01#
				±0.25pF	GRM1555C1H8R4CA01#
				±0.5pF	GRM1555C1H8R4DA01#
			8.5pF	±0.05pF	GRM1555C1H8R5WA01#
				±0.1pF	GRM1555C1H8R5BA01#
				±0.25pF	GRM1555C1H8R5CA01#
				±0.5pF	GRM1555C1H8R5DA01#
			8.6pF	±0.05pF	GRM1555C1H8R6WA01#
				±0.1pF	GRM1555C1H8R6BA01#
				±0.25pF	GRM1555C1H8R6CA01#
				±0.5pF	GRM1555C1H8R6DA01#
			8.7pF	±0.05pF	GRM1555C1H8R7WA01#
				±0.1pF	GRM1555C1H8R7BA01#
				±0.25pF	GRM1555C1H8R7CA01#
				±0.5pF	GRM1555C1H8R7DA01#
			8.8pF	±0.05pF	GRM1555C1H8R8WA01#
				±0.1pF	GRM1555C1H8R8BA01#
				±0.25pF	GRM1555C1H8R8CA01#
				±0.5pF	GRM1555C1H8R8DA01#
			8.9pF	±0.05pF	GRM1555C1H8R9WA01#
				±0.1pF	GRM1555C1H8R9BA01#
				±0.25pF	GRM1555C1H8R9CA01#
				±0.5pF	GRM1555C1H8R9DA01#
			9.0pF	±0.05pF	GRM1555C1H9R0WA01#
				±0.1pF	GRM1555C1H9R0BA01#
				±0.25pF	GRM1555C1H9R0CA01#
				±0.5pF	GRM1555C1H9R0DA01#
			9.1pF	±0.05pF	GRM1555C1H9R1WA01#
			Part nur	nber # indic	cates the package specification code.



T max.	Rated Voltage	TC Code	Сар.	Tol.	Part Number
).55mm	50Vdc	COG	9.1pF	±0.1pF	GRM1555C1H9R1BA01#
				±0.25pF	GRM1555C1H9R1CA01#
				±0.5pF	GRM1555C1H9R1DA01#
			9.2pF	±0.05pF	GRM1555C1H9R2WA01#
				±0.1pF	GRM1555C1H9R2BA01#
				±0.25pF	GRM1555C1H9R2CA01#
				±0.5pF	GRM1555C1H9R2DA01#
			9.3pF	±0.05pF	GRM1555C1H9R3WA01#
				±0.1pF	GRM1555C1H9R3BA01#
				±0.25pF	GRM1555C1H9R3CA01#
				±0.5pF	GRM1555C1H9R3DA01#
			9.4pF	±0.05pF	GRM1555C1H9R4WA01#
				±0.1pF	GRM1555C1H9R4BA01#
				±0.25pF	GRM1555C1H9R4CA01#
				±0.5pF	GRM1555C1H9R4DA01#
			9.5pF	±0.05pF	GRM1555C1H9R5WA01#
				±0.1pF	GRM1555C1H9R5BA01#
				±0.25pF	GRM1555C1H9R5CA01#
				±0.5pF	GRM1555C1H9R5DA01#
			9.6pF	±0.05pF	GRM1555C1H9R6WA01#
				±0.1pF	GRM1555C1H9R6BA01#
				±0.25pF	GRM1555C1H9R6CA01#
			07.5	±0.5pF	GRM1555C1H9R6DA01#
			9.7pF	±0.05pF	GRM1555C1H9R7WA01#
				±0.1pF	GRM1555C1H9R7BA01#
				±0.25pF	GRM1555C1H9R7CA01#
			00.5	±0.5pF	GRM1555C1H9R7DA01#
			9.8pF	±0.05pF	GRM1555C1H9R8WA01#
				±0.1pF	GRM1555C1H9R8BA01#
				±0.25pF	GRM1555C1H9R8CA01#
				±0.5pF	GRM1555C1H9R8DA01#
			9.9pF	±0.05pF	GRM1555C1H9R9WA01#
				±0.1pF	GRM1555C1H9R9BA01#
				±0.25pF	GRM1555C1H9R9CA01#
			40.5	±0.5pF	GRM1555C1H9R9DA01#
			10pF	±2%	GRM1555C1H100GA01#
				±5%	GRM1555C1H100JA01#
			12pF	±2%	GRM1555C1H120GA01#
			45.5	±5%	GRM1555C1H120JA01#
			15pF	±2%	GRM1555C1H150GA01#
			10.5	±5%	GRM1555C1H150JA01#
			18pF	±2%	GRM1555C1H180GA01#
			00 5	±5%	GRM1555C1H180JA01#
			22pF	±2%	GRM1555C1H220GA01#
			07×F	±5%	GRM1555C1H220JA01#
			27pF	±2%	GRM1555C1H270GA01#
			20 5	±5%	GRM1555C1H270JA01#
			33pF	±2%	GRM1555C1H330GA01#
			20 5	±5%	GRM1555C1H330JA01#
			39pF	±2%	GRM1555C1H390GA01#
			47.5	±5%	GRM1555C1H390JA01#
			47pF	±2%	GRM1555C1H470GA01#
				±5%	GRM1555C1H470JA01#
			56pF	±2%	GRM1555C1H560GA01#

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number
0.55mm	50Vdc	COG	56pF	±5%	GRM1555C1H560JA01#
			68pF	±2%	GRM1555C1H680GA01#
				±5%	GRM1555C1H680JA01#
			82pF	±2%	GRM1555C1H820GA01#
				±5%	GRM1555C1H820JA01#
			100pF	±2%	GRM1555C1H101GA01#
				±5%	GRM1555C1H101JA01#
			120pF	±2%	GRM1555C1H121GA01#
			- 1-	±5%	GRM1555C1H121JA01#
			150pF	±2%	GRM1555C1H151GA01#
			тоорг	±5%	GRM1555C1H151JA01#
			100-5		
			180pF	±2%	GRM1555C1H181GA01#
				±5%	GRM1555C1H181JA01#
			220pF	±2%	GRM1555C1H221GA01#
				±5%	GRM1555C1H221JA01#
			270pF	±2%	GRM1555C1H271GA01#
				±5%	GRM1555C1H271JA01#
			330pF	±2%	GRM1555C1H331GA01#
				±5%	GRM1555C1H331JA01#
			390pF	±2%	GRM1555C1H391GA01#
				±5%	GRM1555C1H391JA01#
			470pF	±2%	GRM1555C1H471GA01#
				±5%	GRM1555C1H471JA01#
			560pF	±2%	GRM1555C1H561GA01#
			·	±5%	GRM1555C1H561JA01#
			680pF	±2%	GRM1555C1H681GA01#
				±5%	GRM1555C1H681JA01#
			820pF	±2%	GRM1555C1H821GA01#
			02001	±5%	GRM1555C1H821JA01#
			1000pF	±2%	GRM1555C1H102GA01#
			ТОООРІ		GRM1555C1H102JA01#
		CK	0.15	±5%	
		CK	0.1pF	±0.05pF	GRM1554C1HR10WA01#
				±0.1pF	GRM1554C1HR10BA01#
			0.2pF	±0.05pF	GRM1554C1HR20WA01#
				±0.1pF	GRM1554C1HR20BA01#
			0.3pF	±0.05pF	GRM1554C1HR30WA01#
				±0.1pF	GRM1554C1HR30BA01#
			0.4pF	±0.05pF	GRM1554C1HR40WA01#
				±0.1pF	GRM1554C1HR40BA01#
			0.5pF	±0.05pF	GRM1554C1HR50WA01#
				±0.1pF	GRM1554C1HR50BA01#
			0.6pF	±0.05pF	GRM1554C1HR60WA01#
				±0.1pF	GRM1554C1HR60BA01#
			0.7pF	±0.05pF	GRM1554C1HR70WA01#
				±0.1pF	GRM1554C1HR70BA01#
			0.8pF	±0.05pF	GRM1554C1HR80WA01#
			0.0pi	±0.05pF	GRM1554C1HR80BA01#
			0.05E		
			0.9pF	±0.05pF	GRM1554C1HR90WA01#
				±0.1pF	GRM1554C1HR90BA01#
			1.0pF	±0.05pF	GRM1554C1H1R0WA01#
				±0.1pF	GRM1554C1H1R0BA01#
				±0.25pF	GRM1554C1H1R0CA01#
			1.1pF	±0.05pF	GRM1554C1H1R1WA01#

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number
0.55mm	50Vdc	СК	1.1pF	±0.25pF	GRM1554C1H1R1CA01#
			1.2pF	±0.05pF	GRM1554C1H1R2WA01#
				±0.1pF	GRM1554C1H1R2BA01#
				±0.25pF	GRM1554C1H1R2CA01#
			1.3pF	±0.05pF	GRM1554C1H1R3WA01#
				±0.1pF	GRM1554C1H1R3BA01#
				±0.25pF	GRM1554C1H1R3CA01#
			1.4pF	±0.05pF	GRM1554C1H1R4WA01#
				±0.1pF	GRM1554C1H1R4BA01#
				±0.25pF	GRM1554C1H1R4CA01#
			1.5pF	±0.05pF	GRM1554C1H1R5WA01#
				±0.1pF	GRM1554C1H1R5BA01#
				±0.25pF	GRM1554C1H1R5CA01#
			1.6pF		GRM1554C1H1R6WA01#
			ι.υμΓ	±0.05pF	
				±0.1pF	GRM1554C1H1R6BA01#
			47.5	±0.25pF	GRM1554C1H1R6CA01#
			1.7pF	±0.05pF	GRM1554C1H1R7WA01#
				±0.1pF	GRM1554C1H1R7BA01#
				±0.25pF	GRM1554C1H1R7CA01#
			1.8pF	±0.05pF	GRM1554C1H1R8WA01#
				±0.1pF	GRM1554C1H1R8BA01#
				±0.25pF	GRM1554C1H1R8CA01#
			1.9pF	±0.05pF	GRM1554C1H1R9WA01#
				±0.1pF	GRM1554C1H1R9BA01#
				±0.25pF	GRM1554C1H1R9CA01#
			2.0pF	±0.05pF	GRM1554C1H2R0WA01#
				±0.1pF	GRM1554C1H2R0BA01#
				±0.25pF	GRM1554C1H2R0CA01#
		CJ	2.1pF	±0.05pF	GRM1553C1H2R1WA01#
				±0.1pF	GRM1553C1H2R1BA01#
				±0.25pF	GRM1553C1H2R1CA01#
			2.2pF	±0.05pF	GRM1553C1H2R2WA01#
			2.201	-	
				±0.1pF	GRM1553C1H2R2BA01#
			0.0	±0.25pF	GRM1553C1H2R2CA01#
			2.3pF	±0.05pF	
				±0.1pF	GRM1553C1H2R3BA01#
				±0.25pF	
			2.4pF	±0.05pF	
				±0.1pF	GRM1553C1H2R4BA01#
				±0.25pF	GRM1553C1H2R4CA01#
			2.5pF	±0.05pF	GRM1553C1H2R5WA01#
				±0.1pF	GRM1553C1H2R5BA01#
				±0.25pF	GRM1553C1H2R5CA01#
			2.6pF	±0.05pF	GRM1553C1H2R6WA01#
				±0.1pF	GRM1553C1H2R6BA01#
				±0.25pF	GRM1553C1H2R6CA01#
			2.7pF	±0.05pF	GRM1553C1H2R7WA01#
			•	±0.1pF	GRM1553C1H2R7BA01#
				±0.25pF	GRM1553C1H2R7CA01#
			2.8pF	±0.25pi	GRM1553C1H2R8WA01#
			L.OUT	±o.oopr	GI IIVI I JOOG I I IZROVVAU I#
			-1-	±0.15E	GDM1553C1H3D9DA01#
			- 1-	±0.1pF	GRM1553C1H2R8BA01#
			2.9pF	±0.1pF ±0.25pF ±0.05pF	GRM1553C1H2R8BA01# GRM1553C1H2R8CA01# GRM1553C1H2R9WA01#

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number	
0.55mm	50Vdc	CJ	2.9pF	±0.25pF	GRM1553C1H2R9CA01#	
			3.0pF	±0.05pF	GRM1553C1H3R0WA01#	
				±0.1pF	GRM1553C1H3R0BA01#	
				±0.25pF	GRM1553C1H3R0CA01#	
			3.1pF	±0.05pF	GRM1553C1H3R1WA01#	
				±0.1pF	GRM1553C1H3R1BA01#	
				±0.25pF	GRM1553C1H3R1CA01#	
			3.2pF	±0.05pF	GRM1553C1H3R2WA01#	
				±0.1pF	GRM1553C1H3R2BA01#	
				±0.25pF	GRM1553C1H3R2CA01#	
			3.3pF	±0.05pF	GRM1553C1H3R3WA01#	
				±0.1pF	GRM1553C1H3R3BA01#	
				±0.25pF	GRM1553C1H3R3CA01#	
			3.4pF	±0.05pF	GRM1553C1H3R4WA01#	
				±0.1pF	GRM1553C1H3R4BA01#	
				±0.25pF	GRM1553C1H3R4CA01#	
			3.5pF	±0.05pF	GRM1553C1H3R5WA01#	
				±0.1pF	GRM1553C1H3R5BA01#	
				±0.25pF	GRM1553C1H3R5CA01#	
			3.6pF	±0.05pF	GRM1553C1H3R6WA01#	
				±0.1pF	GRM1553C1H3R6BA01#	
				±0.25pF	GRM1553C1H3R6CA01#	
			3.7pF	±0.05pF	GRM1553C1H3R7WA01#	
				±0.1pF	GRM1553C1H3R7BA01#	
				±0.25pF	GRM1553C1H3R7CA01#	
			3.8pF	±0.05pF	GRM1553C1H3R8WA01#	
				±0.1pF	GRM1553C1H3R8BA01#	
				±0.25pF	GRM1553C1H3R8CA01#	
			3.9pF	±0.05pF	GRM1553C1H3R9WA01#	
				±0.1pF	GRM1553C1H3R9BA01#	
				±0.25pF	GRM1553C1H3R9CA01#	
		CH	4.0pF	±0.05pF	GRM1552C1H4R0WA01#	
				±0.1pF	GRM1552C1H4R0BA01#	
			4.4	±0.25pF	GRM1552C1H4R0CA01#	
			4.1pF	±0.05pF	GRM1552C1H4R1WA01#	
				±0.1pF	GRM1552C1H4R1BA01#	
			4.0-5	±0.25pF	GRM1552C1H4R1CA01#	
			4.2pF	±0.05pF	GRM1552C1H4R2WA01# GRM1552C1H4R2BA01#	
				±0.1pF		
			1 2nE	±0.25pF ±0.05pF	GRM1552C1H4R2CA01#	
			4.3pF	<u> </u>	GRM1552C1H4R3WA01# GRM1552C1H4R3BA01#	
				±0.1pF ±0.25pF	GRM1552C1H4R3CA01#	
			4.4pF	±0.25pF	GRM1552C1H4R4WA01#	
			+.+μΓ	±0.05pF	GRM1552C1H4R4WA01#	
				±0.1pr ±0.25pF	GRM1552C1H4R4CA01#	
			4.5pF	±0.05pF	GRM1552C1H4R5WA01#	
				±0.1pF	GRM1552C1H4R5BA01#	
				±0.25pF	GRM1552C1H4R5CA01#	
			4.6pF	±0.05pF	GRM1552C1H4R6WA01#	
			r	±0.1pF	GRM1552C1H4R6BA01#	
				±0.25pF	GRM1552C1H4R6CA01#	
			4.7pF	±0.05pF	GRM1552C1H4R7WA01#	
				±0.1pF	GRM1552C1H4R7BA01#	
		-	Part nur	nber # indic	cates the package specification	code.



T max.	Rated Voltage	TC Code	Сар.	Tol.	Part Number
.55mm	50Vdc	СН	4.7pF	±0.25pF	GRM1552C1H4R7CA01#
			4.8pF	±0.05pF	GRM1552C1H4R8WA01#
				±0.1pF	GRM1552C1H4R8BA01#
				±0.25pF	GRM1552C1H4R8CA01#
			4.9pF	±0.05pF	GRM1552C1H4R9WA01#
				±0.1pF	GRM1552C1H4R9BA01#
				±0.25pF	GRM1552C1H4R9CA01#
			5.0pF	±0.05pF	GRM1552C1H5R0WA01#
				±0.1pF	GRM1552C1H5R0BA01#
				±0.25pF	GRM1552C1H5R0CA01#
			5.1pF	±0.05pF	GRM1552C1H5R1WA01#
				±0.1pF	GRM1552C1H5R1BA01#
				±0.25pF	GRM1552C1H5R1CA01#
				±0.5pF	GRM1552C1H5R1DA01#
			5.2pF	±0.05pF	GRM1552C1H5R2WA01#
			- 1	±0.1pF	GRM1552C1H5R2BA01#
				-	GRM1552C1H5R2CA01#
				±0.5pF	GRM1552C1H5R2DA01#
			5.3nF	±0.05pF	GRM1552C1H5R3WA01#
			5.3pF	±0.1pF	GRM1552C1H5R3BA01#
				-	GRM1552C1H5R3CA01#
				±0.25pF	
			5.4pE	±0.5pF	GRM1552C1H5R3DA01#
			5.4pF		GRM1552C1H5R4WA01#
				±0.1pF	GRM1552C1H5R4BA01#
					GRM1552C1H5R4CA01#
				±0.5pF	GRM1552C1H5R4DA01#
			5.5pF	±0.05pF	GRM1552C1H5R5WA01#
				±0.1pF	GRM1552C1H5R5BA01#
				±0.25pF	GRM1552C1H5R5CA01#
				±0.5pF	GRM1552C1H5R5DA01#
			5.6pF	±0.05pF	GRM1552C1H5R6WA01#
				±0.1pF	GRM1552C1H5R6BA01#
				±0.25pF	GRM1552C1H5R6CA01#
				±0.5pF	GRM1552C1H5R6DA01#
			5.7pF	±0.05pF	GRM1552C1H5R7WA01#
				±0.1pF	GRM1552C1H5R7BA01#
				±0.25pF	GRM1552C1H5R7CA01#
				±0.5pF	GRM1552C1H5R7DA01#
			5.8pF	±0.05pF	GRM1552C1H5R8WA01#
				±0.1pF	GRM1552C1H5R8BA01#
				±0.25pF	GRM1552C1H5R8CA01#
				±0.5pF	GRM1552C1H5R8DA01#
			5.9pF	±0.05pF	GRM1552C1H5R9WA01#
				±0.1pF	GRM1552C1H5R9BA01#
				±0.25pF	GRM1552C1H5R9CA01#
				±0.5pF	GRM1552C1H5R9DA01#
			6.0pF	-	GRM1552C1H6R0WA01#
			•	±0.1pF	GRM1552C1H6R0BA01#
				-	GRM1552C1H6R0CA01#
				±0.5pF	GRM1552C1H6R0DA01#
			6.1pF	±0.05pF	GRM1552C1H6R1WA01#
			υ. τρι		
				±0.1pF ±0.25pF	GRM1552C1H6R1BA01# GRM1552C1H6R1CA01#
		'			

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number	
0.55mm	50Vdc	СН	6.2pF	±0.05pF	GRM1552C1H6R2WA01#	
				±0.1pF	GRM1552C1H6R2BA01#	
				±0.25pF	GRM1552C1H6R2CA01#	
				±0.5pF	GRM1552C1H6R2DA01#	
			6.3pF	±0.05pF	GRM1552C1H6R3WA01#	
				±0.1pF	GRM1552C1H6R3BA01#	
				±0.25pF	GRM1552C1H6R3CA01#	
				±0.5pF	GRM1552C1H6R3DA01#	
			6.4pF	±0.05pF	GRM1552C1H6R4WA01#	
				±0.1pF	GRM1552C1H6R4BA01#	
				±0.25pF	GRM1552C1H6R4CA01#	
				±0.5pF	GRM1552C1H6R4DA01#	
			6.5pF	±0.05pF	GRM1552C1H6R5WA01#	
				±0.1pF	GRM1552C1H6R5BA01#	
				±0.25pF	GRM1552C1H6R5CA01#	
				±0.5pF	GRM1552C1H6R5DA01#	
			6.6pF	±0.05pF	GRM1552C1H6R6WA01#	
			·	±0.1pF	GRM1552C1H6R6BA01#	
				±0.25pF	GRM1552C1H6R6CA01#	
				±0.5pF	GRM1552C1H6R6DA01#	
			6.7pF	±0.05pF	GRM1552C1H6R7WA01#	
				±0.1pF	GRM1552C1H6R7BA01#	
				±0.25pF	GRM1552C1H6R7CA01#	
				±0.5pF	GRM1552C1H6R7DA01#	
			6.8pF	±0.05pF	GRM1552C1H6R8WA01#	
			0.001	±0.1pF	GRM1552C1H6R8BA01#	
				±0.25pF	GRM1552C1H6R8CA01#	
				±0.5pF	GRM1552C1H6R8DA01#	
			6.9pF	±0.05pF	GRM1552C1H6R9WA01#	
			0.561	±0.1pF	GRM1552C1H6R9BA01#	
				±0.25pF	GRM1552C1H6R9CA01#	
				±0.5pF	GRM1552C1H6R9DA01#	
			7.0pF	±0.05pF	GRM1552C1H7R0WA01#	
			7.001	±0.1pF	GRM1552C1H7R0BA01#	
				±0.25pF	GRM1552C1H7R0CA01#	
				±0.5pF	GRM1552C1H7R0DA01#	
			7.1pF	±0.05pF	GRM1552C1H7R1WA01#	
			7.101	±0.05pi	GRM1552C1H7R1BA01#	
				<u> </u>	GRM1552C1H7R1CA01#	
				±0.25pF	GRM1552C1H7R1DA01#	
			7 2n=	±0.5pF	GRM1552C1H7R1DA01#	
			7.2pF	±0.05pF	GRM1552C1H7R2WA01#	
				±0.1pF		
				±0.25pF	GRM1552C1H7R2CA01#	
			70-5	±0.5pF	GRM1552C1H7R2DA01#	
			7.3pF	±0.05pF	GRM1552C1H7R3WA01#	
				±0.1pF	GRM1552C1H7R3BA01#	
				±0.25pF	GRM1552C1H7R3CA01#	
			7 4= -	±0.5pF	GRM1552C1H7R3DA01#	
			7.4pF	±0.05pF	GRM1552C1H7R4WA01#	
				±0.1pF	GRM1552C1H7R4BA01#	
				±0.25pF	GRM1552C1H7R4CA01#	
			75.5	±0.5pF	GRM1552C1H7R4DA01#	
			7.5pF	±0.05pF	GRM1552C1H7R5WA01#	
			Part nur	±0.1pF	GRM1552C1H7R5BA01# cates the package specification	code

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T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number		
0.55mm	50Vdc	СН	7.5pF	±0.25pF	GRM1552C1H7R5CA01#		
				±0.5pF	GRM1552C1H7R5DA01#		
			7.6pF	±0.05pF	GRM1552C1H7R6WA01#		
				±0.1pF	GRM1552C1H7R6BA01#		
				±0.25pF	GRM1552C1H7R6CA01#		
				±0.5pF	GRM1552C1H7R6DA01#		
				7.7pF	±0.05pF	GRM1552C1H7R7WA01#	
				±0.1pF	GRM1552C1H7R7BA01#		
				±0.25pF	GRM1552C1H7R7CA01#		
				±0.5pF	GRM1552C1H7R7DA01#		
			7.8pF	±0.05pF	GRM1552C1H7R8WA01#		
			7.0pi	-	GRM1552C1H7R8BA01#		
				±0.1pF			
				±0.25pF			
				±0.5pF	GRM1552C1H7R8DA01#		
			7.9pF	±0.05pF	GRM1552C1H7R9WA01#		
				±0.1pF	GRM1552C1H7R9BA01#		
				±0.25pF	GRM1552C1H7R9CA01#		
				±0.5pF	GRM1552C1H7R9DA01#		
			8.0pF	±0.05pF	GRM1552C1H8R0WA01#		
				±0.1pF	GRM1552C1H8R0BA01#		
				±0.25pF	GRM1552C1H8R0CA01#		
				±0.5pF	GRM1552C1H8R0DA01#		
			8.1pF	±0.05pF	GRM1552C1H8R1WA01#		
				±0.1pF	GRM1552C1H8R1BA01#		
							±0.25pF
				±0.5pF	GRM1552C1H8R1DA01#		
			8.2pF	±0.05pF	GRM1552C1H8R2WA01#		
				±0.1pF	GRM1552C1H8R2BA01#		
				±0.25pF	GRM1552C1H8R2CA01#		
				±0.5pF	GRM1552C1H8R2DA01#		
			8.3pF	±0.05pF	GRM1552C1H8R3WA01#		
			0.001	±0.1pF	GRM1552C1H8R3BA01#		
				±0.25pF			
				-			
			0.4-5	±0.5pF	GRM1552C1H8R3DA01#		
			8.4pF	±0.05pF	GRM1552C1H8R4WA01#		
				±0.1pF	GRM1552C1H8R4BA01#		
				±0.25pF	GRM1552C1H8R4CA01#		
				±0.5pF	GRM1552C1H8R4DA01#		
			8.5pF	±0.05pF	GRM1552C1H8R5WA01#		
				±0.1pF	GRM1552C1H8R5BA01#		
				±0.25pF	GRM1552C1H8R5CA01#		
				±0.5pF	GRM1552C1H8R5DA01#		
			8.6pF	±0.05pF	GRM1552C1H8R6WA01#		
				±0.1pF	GRM1552C1H8R6BA01#		
				±0.25pF	GRM1552C1H8R6CA01#		
				±0.5pF	GRM1552C1H8R6DA01#		
			8.7pF	±0.05pF	GRM1552C1H8R7WA01#		
				±0.1pF	GRM1552C1H8R7BA01#		
				±0.25pF	GRM1552C1H8R7CA01#		
				±0.5pF	GRM1552C1H8R7DA01#		
			8.8nF	±0.05pF	GRM1552C1H8R8WA01#		
			8.8pF	±0.1pF	GRM1552C1H8R8BA01#		
				±0.1pi	GRM1552C1H8R8CA01#		
				-			
				±0.5pF	GRM1552C1H8R8DA01#		

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number				
0.55mm	50Vdc	СН	8.9pF	±0.05pF	GRM1552C1H8R9WA01#				
				±0.1pF	GRM1552C1H8R9BA01#				
				±0.25pF	GRM1552C1H8R9CA01#				
				±0.5pF	GRM1552C1H8R9DA01#				
			9.0pF	±0.05pF	GRM1552C1H9R0WA01#				
				±0.1pF	GRM1552C1H9R0BA01#				
				±0.25pF	GRM1552C1H9R0CA01#				
				±0.5pF	GRM1552C1H9R0DA01#				
			9.1pF	±0.05pF	GRM1552C1H9R1WA01#				
				±0.1pF	GRM1552C1H9R1BA01#				
				±0.25pF	GRM1552C1H9R1CA01#				
				±0.5pF	GRM1552C1H9R1DA01#				
			9.2pF	±0.05pF	GRM1552C1H9R2WA01#				
				±0.1pF	GRM1552C1H9R2BA01#				
				±0.25pF	GRM1552C1H9R2CA01#				
				±0.5pF	GRM1552C1H9R2DA01#				
			9.3pF	±0.05pF	GRM1552C1H9R3WA01#				
				±0.1pF	GRM1552C1H9R3BA01#				
				±0.25pF	GRM1552C1H9R3CA01#				
				±0.5pF	GRM1552C1H9R3DA01#				
			9.4pF	±0.05pF	GRM1552C1H9R4WA01#				
				±0.1pF	GRM1552C1H9R4BA01#				
				±0.25pF	GRM1552C1H9R4CA01#				
				±0.5pF	GRM1552C1H9R4DA01#				
			9.5pF	±0.05pF	GRM1552C1H9R5WA01#				
				±0.1pF	GRM1552C1H9R5BA01#				
				±0.25pF					
					±0.5pF	GRM1552C1H9R5DA01#			
			9.6pF	±0.05pF	GRM1552C1H9R6WA01#				
				±0.1pF	GRM1552C1H9R6BA01#				
				±0.25pF	GRM1552C1H9R6CA01#				
				±0.5pF	GRM1552C1H9R6DA01#				
					9.7pF	9./pF	±0.05pF	GRM1552C1H9R7WA01#	
				±0.1pF	GRM1552C1H9R7BA01#				
				±0.25pF					
			0.0-5	±0.5pF	GRM1552C1H9R7DA01#				
			9.8pF	±0.05pF	GRM1552C1H9R8WA01#				
				±0.1pF	GRM1552C1H9R8BA01#				
				±0.25pF ±0.5pF	GRM1552C1H9R8CA01# GRM1552C1H9R8DA01#				
			9.9pF	±0.05pF	GRM1552C1H9R9WA01#				
			9.9pi	±0.05pi	GRM1552C1H9R9BA01#				
				±0.1pi	GRM1552C1H9R9CA01#				
				±0.5pF	GRM1552C1H9R9DA01#				
			10pF	±2%	GRM1552C1H100GA01#				
			торі	±5%	GRM1552C1H100JA01#				
			12pF	±2%	GRM1552C1H120GA01#				
			, 2p1	±5%	GRM1552C1H120JA01#				
			15pF	±2%	GRM1552C1H150GA01#				
			.001	±5%	GRM1552C1H150JA01#				
			18pF	±2%	GRM1552C1H180GA01#				
			. 001	±5%	GRM1552C1H180JA01#				
			22pF	±2%	GRM1552C1H220GA01#				
			I ⁻	±5%	GRM1552C1H220JA01#				
	I		Part nur	l .	cates the package specification	code.			



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T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number
0.55mm	50Vdc	СН	27pF	±2%	GRM1552C1H270GA01#
				±5%	GRM1552C1H270JA01#
			33pF	±2%	GRM1552C1H330GA01#
				±5%	GRM1552C1H330JA01#
			39pF	±2%	GRM1552C1H390GA01#
				±5%	GRM1552C1H390JA01#
			47pF	±2%	GRM1552C1H470GA01#
				±5%	GRM1552C1H470JA01#
			56pF	±2%	GRM1552C1H560GA01#
				±5%	GRM1552C1H560JA01#
			68pF	±2%	GRM1552C1H680GA01#
				±5%	GRM1552C1H680JA01#
			82pF	±2%	GRM1552C1H820GA01#
				±5%	GRM1552C1H820JA01#
			100pF	±2%	GRM1552C1H101GA01#
			120pF	±5%	GRM1552C1H101JA01#
				±2%	GRM1552C1H121GA01#
				±5%	GRM1552C1H121JA01#
			150pF	±2%	GRM1552C1H151GA01#
				±5%	GRM1552C1H151JA01#
			180pF	±2%	GRM1552C1H181GA01#
			000-5	±5%	GRM1552C1H181JA01#
			220pF	±2%	GRM1552C1H221GA01#
			070-5	±5%	GRM1552C1H221JA01#
			270pF	±2%	GRM1552C1H271GA01#
			220nE	±5% ±2%	GRM1552C1H271JA01# GRM1552C1H331GA01#
			330pF	±5%	GRM1552C1H331JA01#
			390pF	±2%	GRM1552C1H391GA01#
			ээорг	±5%	GRM1552C1H391JA01#
			470pF	±2%	GRM1552C1H471GA01#
			47 Opi	±5%	GRM1552C1H471JA01#
			560pF	±2%	GRM1552C1H561GA01#
			осор.	±5%	GRM1552C1H561JA01#
			680pF	±2%	GRM1552C1H681GA01#
				±5%	GRM1552C1H681JA01#
			820pF	±2%	GRM1552C1H821GA01#
				±5%	GRM1552C1H821JA01#
			1000pF	±2%	GRM1552C1H102GA01#
				±5%	GRM1552C1H102JA01#
		P2H	1.0pF	±0.25pF	GRM1556P1H1R0CZ01#
			2.0pF	±0.25pF	GRM1556P1H2R0CZ01#
			3.0pF	±0.25pF	GRM1556P1H3R0CZ01#
			4.0pF	±0.25pF	GRM1556P1H4R0CZ01#
			5.0pF	±0.25pF	GRM1556P1H5R0CZ01#
			6.0pF	±0.5pF	GRM1556P1H6R0DZ01#
			7.0pF	±0.5pF	GRM1556P1H7R0DZ01#
			8.0pF	±0.5pF	GRM1556P1H8R0DZ01#
			9.0pF	±0.5pF	GRM1556P1H9R0DZ01#
			10pF	±5%	GRM1556P1H100JZ01#
			12pF	±5%	GRM1556P1H120JZ01#
			15pF	±5%	GRM1556P1H150JZ01#
			18pF	±5%	GRM1556P1H180JZ01#
		22pF	±5%	GRM1556P1H220JZ01#	

T max.	Rated Voltage	TC Code	Сар.	Tol.	Part Number
0.55mm	_	P2H	27pF	±5%	GRM1556P1H270JZ01#
		PK	1.0pF	±0.25pF	GRM1554P1H1R0CZ01#
			2.0pF		GRM1554P1H2R0CZ01#
		PJ	3.0pF		
		PH	4.0pF	±0.25pF	GRM1552P1H4R0CZ01#
			5.0pF	±0.25pF	GRM1552P1H5R0CZ01#
			6.0pF	±0.5pF	GRM1552P1H6R0DZ01#
			7.0pF	±0.5pF	GRM1552P1H7R0DZ01#
			8.0pF	±0.5pF	GRM1552P1H8R0DZ01#
			9.0pF	±0.5pF	GRM1552P1H9R0DZ01#
			10pF	±5%	GRM1552P1H100JZ01#
			12pF	±5%	GRM1552P1H120JZ01#
			15pF	±5%	GRM1552P1H150JZ01#
			18pF	±5%	GRM1552P1H180JZ01#
			22pF	±5%	GRM1552P1H220JZ01#
			27pF	±5%	GRM1552P1H270JZ01#
		R2H	1.0pF	±0.25pF	GRM1556R1H1R0CD01#
			2.0pF	±0.25pF	GRM1556R1H2R0CZ01#
			3.0pF	±0.25pF	GRM1556R1H3R0CZ01#
			4.0pF	±0.25pF	GRM1556R1H4R0CZ01#
			5.0pF	±0.25pF	GRM1556R1H5R0CZ01#
			6.0pF	±0.5pF	GRM1556R1H6R0DZ01#
			7.0pF	±0.5pF	GRM1556R1H7R0DZ01#
			8.0pF	±0.5pF	GRM1556R1H8R0DZ01#
			9.0pF	±0.5pF	GRM1556R1H9R0DZ01#
			10pF	±5%	GRM1556R1H100JZ01#
			12pF	±5%	GRM1556R1H120JZ01#
			15pF	±5%	GRM1556R1H150JZ01#
			18pF	±5%	GRM1556R1H180JZ01#
			22pF	±5%	GRM1556R1H220JZ01#
			27pF	±5%	GRM1556R1H270JZ01#
			33pF	±5%	GRM1556R1H330JZ01#
		RK	1.0pF	±0.25pF	GRM1554R1H1R0CD01#
			2.0pF	±0.25pF	GRM1554R1H2R0CZ01#
		RJ	3.0pF	±0.25pF	GRM1553R1H3R0CZ01#
		RH	4.0pF	±0.25pF	GRM1552R1H4R0CZ01#
			5.0pF	±0.25pF	GRM1552R1H5R0CZ01#
			6.0pF	±0.5pF	GRM1552R1H6R0DZ01#
			7.0pF	±0.5pF	GRM1552R1H7R0DZ01#
			8.0pF	±0.5pF	GRM1552R1H8R0DZ01#
			9.0pF	±0.5pF	GRM1552R1H9R0DZ01#
			10pF	±5%	GRM1552R1H100JZ01#
			12pF	±5%	GRM1552R1H120JZ01#
			15pF	±5%	GRM1552R1H150JZ01#
			18pF	±5%	GRM1552R1H180JZ01#
			22pF	±5%	GRM1552R1H220JZ01#
			27pF	±5%	GRM1552R1H270JZ01#
			33pF	±5%	GRM1552R1H330JZ01#
		S2H	1.0pF	±0.25pF	GRM1556S1H1R0CD01#
			2.0pF	±0.25pF	GRM1556S1H2R0CZ01#
			3.0pF	±0.25pF	GRM1556S1H3R0CZ01#
			4.0pF	±0.25pF	GRM1556S1H4R0CZ01#
			5.0pF	±0.25pF	GRM1556S1H5R0CZ01#
			6.0pF	±0.5pF	GRM1556S1H6R0DZ01#

■ 1.0×0.5mm)

(→ ■ 1	.0×0.5r	nm)			
T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number
0.55mm	50Vdc	S2H	7.0pF	±0.5pF	GRM1556S1H7R0DZ01#
			8.0pF	±0.5pF	GRM1556S1H8R0DZ01#
			9.0pF	±0.5pF	GRM1556S1H9R0DZ01#
			10pF	±5%	GRM1556S1H100JZ01#
			12pF	±5%	GRM1556S1H120JZ01#
			15pF	±5%	GRM1556S1H150JZ01#
			18pF	±5%	GRM1556S1H180JZ01#
			22pF	±5%	GRM1556S1H220JZ01#
			27pF	±5%	GRM1556S1H270JZ01#
			33pF	±5%	GRM1556S1H330JZ01#
			39pF	±5%	GRM1556S1H390JZ01#
		SK	1.0pF	±0.25pF	GRM1554S1H1R0CD01#
			2.0pF	±0.25pF	GRM1554S1H2R0CZ01#
		SJ	3.0pF	±0.25pF	GRM1553S1H3R0CZ01#
		SH	4.0pF	±0.25pF	GRM1552S1H4R0CZ01#
			5.0pF	±0.25pF	GRM1552S1H5R0CZ01#
			6.0pF	±0.5pF	GRM1552S1H6R0DZ01#
			7.0pF	±0.5pF	GRM1552S1H7R0DZ01#
			8.0pF	±0.5pF	GRM1552S1H8R0DZ01#
			9.0pF	±0.5pF	GRM1552S1H9R0DZ01#
			10pF	±5%	GRM1552S1H100JZ01#
			12pF	±5%	GRM1552S1H120JZ01#
			15pF	±5%	GRM1552S1H150JZ01#
			18pF	±5%	GRM1552S1H180JZ01#
			22pF	±5%	GRM1552S1H220JZ01#
			27pF	±5%	GRM1552S1H270JZ01#
			33pF	±5%	GRM1552S1H330JZ01#
			39pF	±5%	GRM1552S1H390JZ01#
		T2H	1.0pF	±0.25pF	GRM1556T1H1R0CD01#
			2.0pF	±0.25pF	GRM1556T1H2R0CD01#
			3.0pF		GRM1556T1H3R0CD01#
			4.0pF	±0.25pF	GRM1556T1H4R0CD01#
			5.0pF	±0.25pF	GRM1556T1H5R0CD01#
			6.0pF	±0.5pF	GRM1556T1H6R0DD01#
			7.0pF	±0.5pF	GRM1556T1H7R0DD01#
			8.0pF	±0.5pF	GRM1556T1H8R0DD01#
			9.0pF	±0.5pF	GRM1556T1H9R0DD01#
			10pF	±5%	GRM1556T1H100JD01#
			12pF	±5%	GRM1556T1H120JD01#
			15pF	±5%	GRM1556T1H150JD01#
			18pF	±5%	GRM1556T1H180JD01#
			22pF	±5%	GRM1556T1H220JD01#
			27pF	±5%	GRM1556T1H270JD01#
			33pF	±5%	GRM1556T1H330JD01#
			39pF	±5%	GRM1556T1H390JD01#
			47pF	±5%	GRM1556T1H470JD01#
			56pF	±5%	GRM1556T1H560JD01#
			68pF	±5%	GRM1556T1H680JD01#
			82pF	±5%	GRM1556T1H820JD01#
		T1/	100pF	±5%	GRM1556T1H101JD01#
		TK	1.0pF	±0.25pF	GRM1554T1H1R0CD01#
			2.0pF	±0.25pF	GRM1554T1H2R0CD01#
		TJ	3.0pF	±0.25pF	GRM1553T1H3R0CD01#
		TH	4.0pF	±0.25pF	GRM1552T1H4R0CD01#

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number
0.55mm	50Vdc	TH	5.0pF	±0.25pF	GRM1552T1H5R0CD01#
			6.0pF	±0.5pF	GRM1552T1H6R0DD01#
			7.0pF	±0.5pF	GRM1552T1H7R0DD01#
			8.0pF	±0.5pF	GRM1552T1H8R0DD01#
			9.0pF	±0.5pF	GRM1552T1H9R0DD01#
			10pF	±5%	GRM1552T1H100JD01#
			12pF	±5%	GRM1552T1H120JD01#
			15pF	±5%	GRM1552T1H150JD01#
			18pF	±5%	GRM1552T1H180JD01#
			22pF	±5%	GRM1552T1H220JD01#
			27pF	±5%	GRM1552T1H270JD01#
			33pF	±5%	GRM1552T1H330JD01#
			39pF	±5%	GRM1552T1H390JD01#
			47pF	±5%	GRM1552T1H470JD01#
			56pF	±5%	GRM1552T1H560JD01#
			68pF	±5%	GRM1552T1H680JD01#
			82pF	±5%	GRM1552T1H820JD01#
			100pF	±5%	GRM1552T1H101JD01#
		UK	1.0pF	±0.25pF	GRM1554U1H1R0CZ01#
			2.0pF	±0.25pF	GRM1554U1H2R0CZ01#
		UJ	3.0pF	±0.25pF	GRM1553U1H3R0CZ01#
			4.0pF	±0.25pF	GRM1553U1H4R0CZ01#
			5.0pF	±0.25pF	GRM1553U1H5R0CZ01#
			6.0pF	±0.5pF	GRM1553U1H6R0DZ01#
			7.0pF	±0.5pF	GRM1553U1H7R0DZ01#
			8.0pF	±0.5pF	GRM1553U1H8R0DZ01#
			9.0pF	±0.5pF	GRM1553U1H9R0DZ01#
			10pF	±5%	GRM1553U1H100JZ01#
			12pF	±5%	GRM1553U1H120JZ01#
			15pF	±5%	GRM1553U1H150JZ01#
			18pF	±5%	GRM1553U1H180JZ01#
			22pF	±5%	GRM1553U1H220JZ01#
			27pF	±5%	GRM1553U1H270JZ01#
			33pF	±5%	GRM1553U1H330JZ01#
			39pF	±5%	GRM1553U1H390JZ01#
			47pF	±5%	GRM1553U1H470JZ01#
			56pF	±5%	GRM1553U1H560JZ01#
			68pF	±5%	GRM1553U1H680JZ01#
			82pF	±5%	GRM1553U1H820JZ01#
			100pF	±5%	GRM1553U1H101JZ01#
			120pF	±5%	GRM1553U1H121JZ01#
			150pF	±5%	GRM1553U1H151JZ01#
			180pF	±5%	GRM1553U1H181JZ01#
	10Vdc	SL	1200pF	±5%	GRM1551X1A122JA01#
			1500pF	±5%	GRM1551X1A152JA01#
			1800pF	±5%	GRM1551X1A182JA01#
			2200pF	±5%	GRM1551X1A222JA01#
			2700pF	±5%	GRM1551X1A272JA01#
			3300pF	±5%	GRM1551X1A332JA01#
			3900pF	±5%	GRM1551X1A392JA01#
			4700pF	±5%	GRM1551X1A472JA01#
		U2J	1200pF	±5%	GRM1557U1A122JA01#
			1500pF	±5%	GRM1557U1A152JA01#
			1800pF	±5%	GRM1557U1A182JA01#
	ı				cates the package specification code.

Т

max.

0.9mm

(→ **■** 1.0×0.5mm)

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number
0.55mm	10Vdc	U2J	2200pF	±5%	GRM1557U1A222JA01#
			2700pF	±5%	GRM1557U1A272JA01#
			3300pF	±5%	GRM1557U1A332JA01#
			3900pF	±5%	GRM1557U1A392JA01#
			4700pF	±5%	GRM1557U1A472JA01#
		UJ	1200pF	±5%	GRM1553U1A122JA01#
			1500pF	±5%	GRM1553U1A152JA01#
			1800pF	±5%	GRM1553U1A182JA01#
			2200pF	±5%	GRM1553U1A222JA01#
			2700pF	±5%	GRM1553U1A272JA01#
			3300pF	±5%	GRM1553U1A332JA01#
			3900pF	±5%	GRM1553U1A392JA01#
			4700pF	±5%	GRM1553U1A472JA01#

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number
).5mm	50Vdc	SL	2200pF	±5%	GRM1851X1H222JA44#
			2700pF	±5%	GRM1851X1H272JA44#
			3300pF	±5%	GRM1851X1H332JA44#
			3900pF	±5%	GRM1851X1H392JA44#
			4700pF	±5%	GRM1851X1H472JA44#
		U2J	2200pF	±5%	GRM1857U1H222JA44#
			2700pF	±5%	GRM1857U1H272JA44#
			3300pF	±5%	GRM1857U1H332JA44#
			3900pF	±5%	GRM1857U1H392JA44#
			4700pF	±5%	GRM1857U1H472JA44#
		UJ	2200pF	±5%	GRM1853U1H222JA44#
10Vdc			2700pF	±5%	GRM1853U1H272JA44#
			3300pF	±5%	GRM1853U1H332JA44#
			3900pF	±5%	GRM1853U1H392JA44#
			4700pF	±5%	GRM1853U1H472JA44#
	10Vdc	SL	5600pF	±5%	GRM1851X1A562JA44#
			6800pF	±5%	GRM1851X1A682JA44#
		U2J	8200pF	±5%	GRM1851X1A822JA44#
			10000pF	±5%	GRM1851X1A103JA44#
			5600pF	±5%	GRM1857U1A562JA44#
			6800pF	±5%	GRM1857U1A682JA44#
			8200pF	±5%	GRM1857U1A822JA44#
			10000pF	±5%	GRM1857U1A103JA44#
		UJ	5600pF	±5%	GRM1853U1A562JA44#
			6800pF	±5%	GRM1853U1A682JA44#
			8200pF	±5%	GRM1853U1A822JA44#
			10000pF	±5%	GRM1853U1A103JA44#
0.9mm	100Vdc	COG	0.5pF	±0.05pF	GRM1885C2AR50WA01#
				±0.1pF	GRM1885C2AR50BA01#
			0.6pF	±0.05pF	GRM1885C2AR60WA01#
				±0.1pF	GRM1885C2AR60BA01#
			0.7pF	±0.05pF	GRM1885C2AR70WA01#
				±0.1pF	GRM1885C2AR70BA01#
			0.8pF	±0.05pF	GRM1885C2AR80WA01#
				±0.1pF	GRM1885C2AR80BA01#
			0.9pF	±0.05pF	GRM1885C2AR90WA01#

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Rated Voltage	TC Code	Сар.	Tol.	Part Number	
100Vdc	COG	0.9pF	±0.1pF	GRM1885C2AR90BA01#	
		1.0pF	±0.05pF	GRM1885C2A1R0WA01#	
			±0.1pF	GRM1885C2A1R0BA01#	
			±0.25pF	GRM1885C2A1R0CA01#	
		1.1pF	±0.05pF	GRM1885C2A1R1WA01#	
			±0.1pF	GRM1885C2A1R1BA01#	
			±0.25pF	GRM1885C2A1R1CA01#	
		1.2pF	±0.05pF	GRM1885C2A1R2WA01#	
			±0.1pF	GRM1885C2A1R2BA01#	
			±0.25pF	GRM1885C2A1R2CA01#	
		1.3pF	±0.05pF	GRM1885C2A1R3WA01#	
			±0.1pF	GRM1885C2A1R3BA01#	
			±0.25pF		
		1.4pF	±0.05pF	GRM1885C2A1R4WA01#	
			±0.1pF	GRM1885C2A1R4BA01#	
			±0.25pF	GRM1885C2A1R4CA01#	
		1.5pF	±0.05pF	GRM1885C2A1R5WA01#	
			±0.1pF	GRM1885C2A1R5BA01#	
			±0.25pF	GRM1885C2A1R5CA01#	
		1.6pF	±0.05pF	GRM1885C2A1R6WA01#	
			±0.1pF	GRM1885C2A1R6BA01#	
			±0.25pF	GRM1885C2A1R6CA01#	
		1.7pF	±0.05pF	GRM1885C2A1R7WA01#	
			±0.1pF	GRM1885C2A1R7BA01#	
			±0.25pF	GRM1885C2A1R7CA01#	
		1.8pF	±0.05pF	GRM1885C2A1R8WA01#	
			±0.1pF	GRM1885C2A1R8BA01#	
			±0.25pF	GRM1885C2A1R8CA01#	
		1.9pF	±0.05pF	GRM1885C2A1R9WA01#	
			±0.1pF	GRM1885C2A1R9BA01#	
		0.0-5	±0.25pF	GRM1885C2A1R9CA01#	
		2.0pF	±0.05pF	GRM1885C2A2R0WA01#	
			±0.1pF	GRM1885C2A2R0BA01#	
		0.15	±0.25pF	GRM1885C2A2R0CA01#	
		2.1pF	±0.05pF		
			±0.1pF	GRM1885C2A2R1BA01#	
		2 2n=	±0.25pF ±0.05pF	GRM1885C2A2R1CA01# GRM1885C2A2R2WA01#	
		2.2pF	±0.05pF	GRM1885C2A2R2BA01#	
			±0.1pr	GRM1885C2A2R2CA01#	
		2.3pF	±0.25pF	GRM1885C2A2R3WA01#	
		opi	±0.05pi	GRM1885C2A2R3BA01#	
			±0.1pi	GRM1885C2A2R3CA01#	
		2.4pF	±0.05pF	GRM1885C2A2R4WA01#	
		Z. IPI	±0.1pF	GRM1885C2A2R4BA01#	
			±0.25pF	GRM1885C2A2R4CA01#	
		2.5pF	±0.05pF	GRM1885C2A2R5WA01#	
		-15-	±0.1pF	GRM1885C2A2R5BA01#	
			±0.25pF	GRM1885C2A2R5CA01#	
		2.6pF	±0.05pF	GRM1885C2A2R6WA01#	
			±0.1pF	GRM1885C2A2R6BA01#	
			±0.25pF	GRM1885C2A2R6CA01#	
		2.7pF	±0.05pF	GRM1885C2A2R7WA01#	
			±0.1pF	GRM1885C2A2R7BA01#	
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Part number # indicates the package specification code.

(→ ■ 1	.6×0.8r	mm)				
T max.	Rated Voltage	TC Code	Сар.	Tol.	Part Number	
0.9mm	100Vdc	COG	2.7pF	±0.25pF	GRM1885C2A2R7CA01#	
			2.8pF	±0.05pF	GRM1885C2A2R8WA01#	
				±0.1pF	GRM1885C2A2R8BA01#	
				±0.25pF	GRM1885C2A2R8CA01#	
			2.9pF	±0.05pF	GRM1885C2A2R9WA01#	
				±0.1pF	GRM1885C2A2R9BA01#	
				±0.25pF	GRM1885C2A2R9CA01#	
			3.0pF	±0.05pF	GRM1885C2A3R0WA01#	
				±0.1pF	GRM1885C2A3R0BA01#	
				±0.25pF	GRM1885C2A3R0CA01#	
			3.1pF	±0.05pF	GRM1885C2A3R1WA01#	
				±0.1pF	GRM1885C2A3R1BA01#	
				±0.25pF	GRM1885C2A3R1CA01#	
			3.2pF	±0.05pF	GRM1885C2A3R2WA01#	
				±0.1pF	GRM1885C2A3R2BA01#	
				±0.25pF	GRM1885C2A3R2CA01#	
			3.3pF	±0.05pF	GRM1885C2A3R3WA01#	
				±0.1pF	GRM1885C2A3R3BA01#	
				±0.25pF	GRM1885C2A3R3CA01#	
			3.4pF	±0.05pF	GRM1885C2A3R4WA01#	
				±0.1pF	GRM1885C2A3R4BA01#	
				±0.25pF	GRM1885C2A3R4CA01#	
			3.5pF	±0.05pF	GRM1885C2A3R5WA01#	
				±0.1pF	GRM1885C2A3R5BA01#	
				±0.25pF	GRM1885C2A3R5CA01#	
			3.6pF	±0.05pF	GRM1885C2A3R6WA01#	
				±0.1pF	GRM1885C2A3R6BA01#	
				±0.25pF	GRM1885C2A3R6CA01#	
			3.7pF	±0.05pF	GRM1885C2A3R7WA01#	
				±0.1pF	GRM1885C2A3R7BA01#	
				±0.25pF	GRM1885C2A3R7CA01#	
			3.8pF	±0.05pF	GRM1885C2A3R8WA01#	
				±0.1pF	GRM1885C2A3R8BA01#	
					±0.25pF	GRM1885C2A3R8CA01#
			3.9pF	±0.05pF	GRM1885C2A3R9WA01#	
				±0.1pF	GRM1885C2A3R9BA01#	
				±0.25pF	GRM1885C2A3R9CA01#	
			4.0pF	±0.05pF		
				±0.1pF	GRM1885C2A4R0BA01#	
				±0.25pF		
			4.1pF	±0.05pF		
				±0.1pF	GRM1885C2A4R1BA01#	
				±0.25pF	GRM1885C2A4R1CA01#	
			4.2pF	±0.05pF	GRM1885C2A4R2WA01#	
				±0.1pF	GRM1885C2A4R2BA01#	
			40 -	±0.25pF		
			4.3pF	±0.05pF		
				±0.1pF	GRM1885C2A4R3BA01#	
			4.4.5	±0.25pF	GRM1885C2A4R3CA01#	
			4.4pF	±0.05pF	GRM1885C2A4R4WA01#	
				±0.1pF	GRM1885C2A4R4BA01#	
			45-5	±0.25pF	GRM1885C2A4R4CA01#	
			4.5pF	±0.05pF	GRM1885C2A4R5WA01#	
			±0.1pF	GRM1885C2A4R5BA01#		

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number	
0.9mm	100Vdc	COG	4.5pF	±0.25pF	GRM1885C2A4R5CA01#	
			4.6pF	±0.05pF	GRM1885C2A4R6WA01#	
				±0.1pF	GRM1885C2A4R6BA01#	
				±0.25pF	GRM1885C2A4R6CA01#	
			4.7pF	±0.05pF	GRM1885C2A4R7WA01#	
				±0.1pF	GRM1885C2A4R7BA01#	
				±0.25pF	GRM1885C2A4R7CA01#	
			4.8pF	±0.05pF	GRM1885C2A4R8WA01#	
				±0.1pF	GRM1885C2A4R8BA01#	
				±0.25pF	GRM1885C2A4R8CA01#	
			4.9pF	±0.05pF	GRM1885C2A4R9WA01#	
				±0.1pF	GRM1885C2A4R9BA01#	
				±0.25pF	GRM1885C2A4R9CA01#	
			5.0pF	±0.05pF	GRM1885C2A5R0WA01#	
				±0.1pF	GRM1885C2A5R0BA01#	
				±0.25pF	GRM1885C2A5R0CA01#	
			5.1pF	±0.05pF	GRM1885C2A5R1WA01#	
				±0.1pF	GRM1885C2A5R1BA01#	
				±0.25pF	GRM1885C2A5R1CA01#	
				±0.5pF	GRM1885C2A5R1DA01#	
			5.2pF	±0.05pF	GRM1885C2A5R2WA01#	
				±0.1pF	GRM1885C2A5R2BA01#	
				±0.25pF	GRM1885C2A5R2CA01#	
				±0.5pF	GRM1885C2A5R2DA01#	
			5.3pF	±0.05pF	GRM1885C2A5R3WA01#	
				±0.1pF	GRM1885C2A5R3BA01#	
				±0.25pF	GRM1885C2A5R3CA01#	
				±0.5pF	GRM1885C2A5R3DA01#	
			5.4pF	±0.05pF	GRM1885C2A5R4WA01#	
				±0.1pF	GRM1885C2A5R4BA01#	
				±0.25pF	GRM1885C2A5R4CA01#	
				±0.5pF	GRM1885C2A5R4DA01#	
			5.5pF	±0.05pF	GRM1885C2A5R5WA01#	
				±0.1pF	GRM1885C2A5R5BA01#	
				±0.25pF	GRM1885C2A5R5CA01#	
				±0.5pF	GRM1885C2A5R5DA01#	
			5.6pF	±0.05pF	GRM1885C2A5R6WA01#	
				±0.1pF	GRM1885C2A5R6BA01#	
				±0.25pF	GRM1885C2A5R6CA01#	
				±0.5pF	GRM1885C2A5R6DA01#	
			5.7pF	±0.05pF	GRM1885C2A5R7WA01#	
				±0.1pF	GRM1885C2A5R7BA01#	
				±0.25pF	GRM1885C2A5R7CA01#	
				±0.5pF	GRM1885C2A5R7DA01#	
			5.8pF	±0.05pF	GRM1885C2A5R8WA01#	
				±0.1pF	GRM1885C2A5R8BA01#	
				±0.25pF	GRM1885C2A5R8CA01#	
				±0.5pF	GRM1885C2A5R8DA01#	
			5.9pF	±0.05pF	GRM1885C2A5R9WA01#	
				±0.1pF	GRM1885C2A5R9BA01#	
				±0.25pF	GRM1885C2A5R9CA01#	
				±0.5pF	GRM1885C2A5R9DA01#	
			6.0pF	±0.05pF	GRM1885C2A6R0WA01#	
				±0.1pF	GRM1885C2A6R0BA01#	



T max.	Rated Voltage	TC Code	Сар.	Tol.	Part Number		
0.9mm	100Vdc	COG	6.0pF	±0.25pF	GRM1885C2A6R0CA01#		
				±0.5pF	GRM1885C2A6R0DA01#		
			6.1pF	±0.05pF	GRM1885C2A6R1WA01#		
				±0.1pF	GRM1885C2A6R1BA01#		
						±0.25pF	GRM1885C2A6R1CA01#
				±0.5pF	GRM1885C2A6R1DA01#		
			6.2pF	±0.05pF	GRM1885C2A6R2WA01#		
				±0.1pF	GRM1885C2A6R2BA01#		
				±0.25pF	GRM1885C2A6R2CA01#		
				±0.5pF	GRM1885C2A6R2DA01#		
			6.3pF	±0.05pF	GRM1885C2A6R3WA01#		
			•	±0.1pF	GRM1885C2A6R3BA01#		
				±0.25pF	GRM1885C2A6R3CA01#		
				±0.5pF	GRM1885C2A6R3DA01#		
			6.4pF	±0.05pF	GRM1885C2A6R4WA01#		
			о. грт	±0.1pF	GRM1885C2A6R4BA01#		
				±0.25pF	GRM1885C2A6R4CA01#		
				±0.25pF	GRM1885C2A6R4DA01#		
			6.5pF	-			
				±0.05pF	GRM1885C2A6R5WA01#		
				±0.1pF	GRM1885C2A6R5BA01#		
				±0.25pF	GRM1885C2A6R5CA01#		
				±0.5pF	GRM1885C2A6R5DA01#		
			6.6pF	±0.05pF	GRM1885C2A6R6WA01#		
				±0.1pF	GRM1885C2A6R6BA01#		
				±0.25pF	GRM1885C2A6R6CA01#		
				±0.5pF	GRM1885C2A6R6DA01#		
			6.7pF	±0.05pF	GRM1885C2A6R7WA01#		
				±0.1pF	GRM1885C2A6R7BA01#		
				±0.25pF	GRM1885C2A6R7CA01#		
				±0.5pF	GRM1885C2A6R7DA01#		
			6.8pF	±0.05pF	GRM1885C2A6R8WA01#		
				±0.1pF	GRM1885C2A6R8BA01#		
				±0.25pF	GRM1885C2A6R8CA01#		
				±0.5pF	GRM1885C2A6R8DA01#		
			6.9pF	±0.05pF	GRM1885C2A6R9WA01#		
			•	±0.1pF	GRM1885C2A6R9BA01#		
				±0.25pF	GRM1885C2A6R9CA01#		
				±0.5pF	GRM1885C2A6R9DA01#		
			7.0pF	±0.05pF	GRM1885C2A7R0WA01#		
			7.001	±0.1pF	GRM1885C2A7R0BA01#		
				±0.25pF	GRM1885C2A7R0CA01#		
			74.5	±0.5pF	GRM1885C2A7R0DA01#		
			7.1pF	±0.05pF	GRM1885C2A7R1WA01#		
				±0.1pF	GRM1885C2A7R1BA01#		
				±0.25pF	GRM1885C2A7R1CA01#		
				±0.5pF	GRM1885C2A7R1DA01#		
			7.2pF	±0.05pF	GRM1885C2A7R2WA01#		
				±0.1pF	GRM1885C2A7R2BA01#		
				±0.25pF	GRM1885C2A7R2CA01#		
				±0.5pF	GRM1885C2A7R2DA01#		
			7.3pF	±0.05pF	GRM1885C2A7R3WA01#		
				±0.1pF	GRM1885C2A7R3BA01#		
				±0.25pF	GRM1885C2A7R3CA01#		
				±0.5pF	GRM1885C2A7R3DA01#		

T max.	Rated Voltage	TC Code	Сар.	Tol.	Part Number	
0.9mm	100Vdc	COG	7.4pF	±0.05pF	GRM1885C2A7R4WA01#	
				±0.1pF	GRM1885C2A7R4BA01#	
				±0.25pF	GRM1885C2A7R4CA01#	
				±0.5pF	GRM1885C2A7R4DA01#	
			7.5pF	±0.05pF	GRM1885C2A7R5WA01#	
				±0.1pF	GRM1885C2A7R5BA01#	
				±0.25pF	GRM1885C2A7R5CA01#	
				±0.5pF	GRM1885C2A7R5DA01#	
			7.6pF	±0.05pF	GRM1885C2A7R6WA01#	
				±0.1pF	GRM1885C2A7R6BA01#	
				±0.25pF	GRM1885C2A7R6CA01#	
				±0.5pF	GRM1885C2A7R6DA01#	
			7.7pF	±0.05pF	GRM1885C2A7R7WA01#	
				±0.1pF	GRM1885C2A7R7BA01#	
				±0.25pF	GRM1885C2A7R7CA01#	
				±0.5pF	GRM1885C2A7R7DA01#	
			7.8pF	±0.05pF	GRM1885C2A7R8WA01#	
				±0.1pF	GRM1885C2A7R8BA01#	
				±0.25pF	GRM1885C2A7R8CA01#	
				±0.5pF	GRM1885C2A7R8DA01#	
			7.9pF	±0.05pF	GRM1885C2A7R9WA01#	
				±0.1pF	GRM1885C2A7R9BA01#	
				±0.25pF	GRM1885C2A7R9CA01#	
				±0.5pF	GRM1885C2A7R9DA01#	
			8.0pF	±0.05pF	GRM1885C2A8R0WA01#	
				±0.1pF	GRM1885C2A8R0BA01#	
				±0.25pF	GRM1885C2A8R0CA01#	
				±0.5pF	GRM1885C2A8R0DA01#	
			8.1pF	±0.05pF	GRM1885C2A8R1WA01#	
				±0.1pF	GRM1885C2A8R1BA01#	
				±0.25pF	GRM1885C2A8R1CA01#	
				±0.5pF	GRM1885C2A8R1DA01#	
			8.2pF	±0.05pF	GRM1885C2A8R2WA01#	
				±0.1pF	GRM1885C2A8R2BA01#	
				±0.25pF	GRM1885C2A8R2CA01#	
				±0.5pF	GRM1885C2A8R2DA01#	
			8.3pF	±0.05pF	GRM1885C2A8R3WA01#	
				±0.1pF	GRM1885C2A8R3BA01#	
				±0.25pF	GRM1885C2A8R3CA01#	
				±0.5pF	GRM1885C2A8R3DA01#	
			8.4pF	±0.05pF	GRM1885C2A8R4WA01#	
				±0.1pF	GRM1885C2A8R4BA01#	
				±0.25pF		
				±0.5pF	GRM1885C2A8R4DA01#	
			8.5pF	±0.05pF	GRM1885C2A8R5WA01#	
				±0.1pF	GRM1885C2A8R5BA01#	
				±0.25pF	GRM1885C2A8R5CA01#	
			0	±0.5pF	GRM1885C2A8R5DA01#	
			8.6pF	±0.05pF	GRM1885C2A8R6WA01#	
				±0.1pF	GRM1885C2A8R6BA01#	_
				±0.25pF	GRM1885C2A8R6CA01#	_
			07.5	±0.5pF	GRM1885C2A8R6DA01#	
			8.7pF	±0.05pF	GRM1885C2A8R7WA01#	
				±0.1pF	GRM1885C2A8R7BA01#	

max.

0.9mm

(→ ■ 1	18.0×6.	mm)			
T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number
0.9mm	100Vdc	COG	8.7pF	±0.25pF	GRM1885C2A8R7CA01#
				±0.5pF	GRM1885C2A8R7DA01#
			8.8pF	±0.05pF	GRM1885C2A8R8WA01#
				±0.1pF	GRM1885C2A8R8BA01#
				±0.25pF	GRM1885C2A8R8CA01#
				±0.5pF	GRM1885C2A8R8DA01#
			8.9pF	±0.05pF	GRM1885C2A8R9WA01#
				±0.1pF	GRM1885C2A8R9BA01#
				±0.25pF	GRM1885C2A8R9CA01#
				±0.5pF	GRM1885C2A8R9DA01#
			9.0pF	±0.05pF	GRM1885C2A9R0WA01#
				±0.1pF	GRM1885C2A9R0BA01#
				±0.25pF	GRM1885C2A9R0CA01#
				±0.5pF	GRM1885C2A9R0DA01#
			9.1pF	±0.05pF	GRM1885C2A9R1WA01#
				±0.1pF	GRM1885C2A9R1BA01#
				±0.25pF	GRM1885C2A9R1CA01#
				±0.5pF	GRM1885C2A9R1DA01#
			9.2pF	±0.05pF	GRM1885C2A9R2WA01#
			·	±0.1pF	GRM1885C2A9R2BA01#
				±0.25pF	GRM1885C2A9R2CA01#
				±0.5pF	GRM1885C2A9R2DA01#
			9.3pF	±0.05pF	
			•	±0.1pF	GRM1885C2A9R3BA01#
				±0.25pF	GRM1885C2A9R3CA01#
				±0.5pF	GRM1885C2A9R3DA01#
			9.4pF	±0.05pF	GRM1885C2A9R4WA01#
				±0.1pF	GRM1885C2A9R4BA01#
				±0.25pF	GRM1885C2A9R4CA01#
				±0.5pF	GRM1885C2A9R4DA01#
			9.5pF	±0.05pF	
				±0.1pF	GRM1885C2A9R5BA01#
				±0.25pF	GRM1885C2A9R5CA01#
				±0.5pF	GRM1885C2A9R5DA01#
			9.6pF	±0.05pF	GRM1885C2A9R6WA01#
				±0.1pF	GRM1885C2A9R6BA01#
				±0.25pF	
				±0.5pF	GRM1885C2A9R6DA01#
			9.7pF	±0.05pF	
			- · P.	±0.1pF	GRM1885C2A9R7BA01#
				±0.25pF	GRM1885C2A9R7CA01#
				±0.5pF	GRM1885C2A9R7DA01#
			9.8pF	±0.05pF	
			P-	±0.1pF	GRM1885C2A9R8BA01#
				±0.25pF	
				±0.5pF	GRM1885C2A9R8DA01#
			9.9pF	±0.05pF	
			- I-:	±0.1pF	GRM1885C2A9R9BA01#
				±0.25pF	GRM1885C2A9R9CA01#
				±0.5pF	GRM1885C2A9R9DA01#
			10pF	±5%	GRM1885C2A100JA01#
			12pF	±5%	GRM1885C2A120JA01#
			15pF	±5%	GRM1885C2A150JA01#
			18pF	±5%	GRM1885C2A180JA01#
	l		ιορι	-5 /0	G. 181100002A 1000A01#

Rated Voltage	TC Code	Сар.	Tol.	Part Number
100Vdc	COG	22pF	±5%	GRM1885C2A220JA01#
		27pF	±5%	GRM1885C2A270JA01#
		33pF	±5%	GRM1885C2A330JA01#
		39pF	±5%	GRM1885C2A390JA01#
		47pF	±5%	GRM1885C2A470JA01#
		56pF	±5%	GRM1885C2A560JA01#
		68pF	±5%	GRM1885C2A680JA01#
		82pF	±5%	GRM1885C2A820JA01#
		100pF	±5%	GRM1885C2A101JA01#
		120pF	±5%	GRM1885C2A121JA01#
		150pF	±5%	GRM1885C2A151JA01#
		180pF	±5%	GRM1885C2A181JA01#
		220pF	±5%	GRM1885C2A221JA01#
		270pF	±5%	GRM1885C2A271JA01#
		330pF	±5%	GRM1885C2A331JA01#
		390pF	±5%	GRM1885C2A391JA01#
		470pF	±5%	GRM1885C2A471JA01#
		560pF	±5%	GRM1885C2A561JA01#
		680pF	±5%	GRM1885C2A681JA01#
		820pF	±5%	GRM1885C2A821JA01#
		1000pF	±5%	GRM1885C2A102JA01#
		1200pF	±5%	GRM1885C2A122JA01#
		1500pF	±5%	GRM1885C2A152JA01#
	СК	0.5pF	±0.05pF	GRM1884C2AR50WA01#
			±0.1pF	GRM1884C2AR50BA01#
		0.6pF	±0.05pF	GRM1884C2AR60WA01#
			±0.1pF	GRM1884C2AR60BA01#
		0.7pF	±0.05pF	GRM1884C2AR70WA01#
			±0.1pF	GRM1884C2AR70BA01#
		0.8pF	±0.05pF	GRM1884C2AR80WA01#
			±0.1pF	GRM1884C2AR80BA01#
		0.9pF	±0.05pF	GRM1884C2AR90WA01#
			±0.1pF	GRM1884C2AR90BA01#
		1.0pF	±0.05pF	GRM1884C2A1R0WA01#
			±0.1pF	GRM1884C2A1R0BA01#
			±0.25pF	GRM1884C2A1R0CA01#
		1.1pF	±0.05pF	GRM1884C2A1R1WA01#
			±0.1pF	GRM1884C2A1R1BA01#
			±0.25pF	GRM1884C2A1R1CA01#
		1.2pF	±0.05pF	GRM1884C2A1R2WA01#
			±0.1pF	GRM1884C2A1R2BA01#
			±0.25pF	GRM1884C2A1R2CA01#
		1.3pF	±0.05pF	GRM1884C2A1R3WA01#
			±0.1pF	GRM1884C2A1R3BA01#
			±0.25pF	GRM1884C2A1R3CA01#
		1.4pF	±0.05pF	GRM1884C2A1R4WA01#
			±0.1pF	GRM1884C2A1R4BA01#
			±0.25pF	GRM1884C2A1R4CA01#
		1.5pF	±0.05pF	GRM1884C2A1R5WA01#
			±0.1pF	GRM1884C2A1R5BA01#
			±0.25pF	GRM1884C2A1R5CA01#
		1.6pF	±0.05pF	GRM1884C2A1R6WA01#
			±0.1pF	GRM1884C2A1R6BA01#
			±0.25pF	GRM1884C2A1R6CA01#
		Part nur	nber # indic	ates the package specification code.



T max.	Rated Voltage	TC Code	Сар.	Tol.	Part Number
).9mm	100Vdc	СК	1.7pF	±0.05pF	GRM1884C2A1R7WA01#
				±0.1pF	GRM1884C2A1R7BA01#
				±0.25pF	GRM1884C2A1R7CA01#
			1.8pF	±0.05pF	GRM1884C2A1R8WA01#
				±0.1pF	GRM1884C2A1R8BA01#
				±0.25pF	GRM1884C2A1R8CA01#
			1.9pF	±0.05pF	GRM1884C2A1R9WA01#
				±0.1pF	GRM1884C2A1R9BA01#
				±0.25pF	GRM1884C2A1R9CA01#
			2.0pF	±0.05pF	GRM1884C2A2R0WA01#
				±0.1pF	GRM1884C2A2R0BA01#
				±0.25pF	GRM1884C2A2R0CA01#
		CJ	2.1pF	±0.05pF	GRM1883C2A2R1WA01#
			•	±0.1pF	GRM1883C2A2R1BA01#
				±0.25pF	GRM1883C2A2R1CA01#
			2.2pF	±0.05pF	GRM1883C2A2R2WA01#
			p'	±0.1pF	GRM1883C2A2R2BA01#
				±0.25pF	GRM1883C2A2R2CA01#
			2.3pF	±0.05pF	GRM1883C2A2R3WA01#
			2.5pi	· ·	GRM1883C2A2R3BA01#
				±0.1pF	
			0.4.5	±0.25pF	GRM1883C2A2R3CA01#
			2.4pF	±0.05pF	GRM1883C2A2R4WA01#
				±0.1pF	GRM1883C2A2R4BA01#
				±0.25pF	GRM1883C2A2R4CA01#
			2.5pF	±0.05pF	GRM1883C2A2R5WA01#
		,		±0.1pF	GRM1883C2A2R5BA01#
				±0.25pF	GRM1883C2A2R5CA01#
			2.6pF	±0.05pF	GRM1883C2A2R6WA01#
				±0.1pF	GRM1883C2A2R6BA01#
				±0.25pF	GRM1883C2A2R6CA01#
			2.7pF	±0.05pF	GRM1883C2A2R7WA01#
				±0.1pF	GRM1883C2A2R7BA01#
				±0.25pF	GRM1883C2A2R7CA01#
			2.8pF	±0.05pF	GRM1883C2A2R8WA01#
			2.0μι	±0.1pF	GRM1883C2A2R8BA01#
				±0.25pF	GRM1883C2A2R8CA01#
			2.9pF	±0.05pF	GRM1883C2A2R9WA01#
			•	±0.1pF	GRM1883C2A2R9BA01#
				±0.25pF	GRM1883C2A2R9CA01#
			3.0pF	±0.05pF	GRM1883C2A3R0WA01#
			0.001	±0.1pF	GRM1883C2A3R0BA01#
					GRM1883C2A3R0CA01#
			0.1-5	±0.25pF	
			3.1pF	±0.05pF	GRM1883C2A3R1WA01#
				±0.1pF	GRM1883C2A3R1BA01#
			00-	±0.25pF	GRM1883C2A3R1CA01#
			3.2pF	±0.05pF	GRM1883C2A3R2WA01#
				±0.1pF	GRM1883C2A3R2BA01#
				±0.25pF	GRM1883C2A3R2CA01#
			3.3pF	±0.05pF	GRM1883C2A3R3WA01#
				±0.1pF	GRM1883C2A3R3BA01#
				±0.25pF	GRM1883C2A3R3CA01#
			3.4pF	±0.05pF	GRM1883C2A3R4WA01#
				±0.1pF	GRM1883C2A3R4BA01#
				±0.25pF	GRM1883C2A3R4CA01#

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number	
0.9mm	100Vdc	CJ	3.5pF	±0.05pF	GRM1883C2A3R5WA01#	
				±0.1pF	GRM1883C2A3R5BA01#	
				±0.25pF	GRM1883C2A3R5CA01#	
			3.6pF	±0.05pF	GRM1883C2A3R6WA01#	
				±0.1pF	GRM1883C2A3R6BA01#	
				±0.25pF	GRM1883C2A3R6CA01#	
			3.7pF	±0.05pF	GRM1883C2A3R7WA01#	
				±0.1pF	GRM1883C2A3R7BA01#	
				±0.25pF	GRM1883C2A3R7CA01#	
			3.8pF	±0.05pF	GRM1883C2A3R8WA01#	
				±0.1pF	GRM1883C2A3R8BA01#	
				±0.25pF	GRM1883C2A3R8CA01#	
			3.9pF	±0.05pF	GRM1883C2A3R9WA01#	
				±0.1pF	GRM1883C2A3R9BA01#	
				±0.25pF	GRM1883C2A3R9CA01#	
		СН	4.0pF	±0.05pF	GRM1882C2A4R0WA01#	
				±0.1pF	GRM1882C2A4R0BA01#	
				±0.25pF	GRM1882C2A4R0CA01#	
			4.1pF	±0.05pF	GRM1882C2A4R1WA01#	
				±0.1pF	GRM1882C2A4R1BA01#	
				±0.25pF	GRM1882C2A4R1CA01#	
			4.2pF	±0.05pF	GRM1882C2A4R2WA01#	
				±0.1pF	GRM1882C2A4R2BA01#	
				±0.25pF	GRM1882C2A4R2CA01#	
			4.3pF	±0.05pF	GRM1882C2A4R3WA01#	
				±0.1pF	GRM1882C2A4R3BA01#	
				±0.25pF	GRM1882C2A4R3CA01#	
			4.4pF	±0.05pF	GRM1882C2A4R4WA01#	
				±0.1pF	GRM1882C2A4R4BA01#	
				±0.25pF	GRM1882C2A4R4CA01#	
			4.5pF	±0.05pF	GRM1882C2A4R5WA01#	
				±0.1pF	GRM1882C2A4R5BA01#	
				±0.25pF	GRM1882C2A4R5CA01#	
			4.6pF	±0.05pF	GRM1882C2A4R6WA01#	
				±0.1pF	GRM1882C2A4R6BA01#	
				±0.25pF	GRM1882C2A4R6CA01#	
			4.7pF	±0.05pF	GRM1882C2A4R7WA01#	
				±0.1pF	GRM1882C2A4R7BA01#	
				±0.25pF	GRM1882C2A4R7CA01#	
			4.8pF	±0.05pF	GRM1882C2A4R8WA01#	
				±0.1pF	GRM1882C2A4R8BA01#	
				±0.25pF	GRM1882C2A4R8CA01#	
			4.9pF	±0.05pF	GRM1882C2A4R9WA01#	
				±0.1pF	GRM1882C2A4R9BA01#	
				±0.25pF	GRM1882C2A4R9CA01#	
			5.0pF	±0.05pF	GRM1882C2A5R0WA01#	
				±0.1pF	GRM1882C2A5R0BA01#	
				±0.25pF	GRM1882C2A5R0CA01#	
			5.1pF	±0.05pF	GRM1882C2A5R1WA01#	
				±0.1pF	GRM1882C2A5R1BA01#	
				±0.25pF	GRM1882C2A5R1CA01#	
				±0.5pF	GRM1882C2A5R1DA01#	
			5.2pF	±0.05pF	GRM1882C2A5R2WA01#	
				±0.1pF	GRM1882C2A5R2BA01#	

(→ ■ 1	18.0×0.	11111)			
T max.	Rated Voltage	TC Code	Сар.	Tol.	Part Number
0.9mm	100Vdc	СН	5.2pF	±0.25pF	GRM1882C2A5R2CA01#
				±0.5pF	GRM1882C2A5R2DA01#
			5.3pF	±0.05pF	GRM1882C2A5R3WA01#
				±0.1pF	GRM1882C2A5R3BA01#
				±0.25pF	GRM1882C2A5R3CA01#
				±0.5pF	GRM1882C2A5R3DA01#
		-	5.4pF	±0.05pF	GRM1882C2A5R4WA01#
				±0.1pF	GRM1882C2A5R4BA01#
				±0.25pF	GRM1882C2A5R4CA01#
				±0.5pF	GRM1882C2A5R4DA01#
		-	5.5pF	±0.05pF	GRM1882C2A5R5WA01#
				±0.1pF	GRM1882C2A5R5BA01#
				±0.25pF	
				±0.5pF	GRM1882C2A5R5DA01#
			5.6pF	±0.05pF	GRM1882C2A5R6WA01#
			3.0pi	-	
				±0.1pF	GRM1882C2A5R6BA01# GRM1882C2A5R6CA01#
				±0.25pF	
			5 7nF	±0.5pF	GRM1882C2A5R6DA01#
			5.7pF	±0.05pF	GRM1882C2A5R7WA01#
				±0.1pF	GRM1882C2A5R7BA01#
				±0.25pF	
			5.8pF	±0.5pF	GRM1882C2A5R7DA01#
				±0.05pF	
				±0.1pF	GRM1882C2A5R8BA01#
				±0.25pF	GRM1882C2A5R8CA01#
				±0.5pF	GRM1882C2A5R8DA01#
			5.9pF	±0.05pF	GRM1882C2A5R9WA01#
				±0.1pF	GRM1882C2A5R9BA01#
				±0.25pF	GRM1882C2A5R9CA01#
				±0.5pF	GRM1882C2A5R9DA01#
			6.0pF	±0.05pF	GRM1882C2A6R0WA01#
				±0.1pF	GRM1882C2A6R0BA01#
				±0.25pF	GRM1882C2A6R0CA01#
				±0.5pF	GRM1882C2A6R0DA01#
			6.1pF	±0.05pF	GRM1882C2A6R1WA01#
				±0.1pF	GRM1882C2A6R1BA01#
				±0.25pF	GRM1882C2A6R1CA01#
				±0.5pF	GRM1882C2A6R1DA01#
			6.2pF	±0.05pF	GRM1882C2A6R2WA01#
				±0.1pF	GRM1882C2A6R2BA01#
				±0.25pF	GRM1882C2A6R2CA01#
				±0.5pF	GRM1882C2A6R2DA01#
			6.3pF	±0.05pF	GRM1882C2A6R3WA01#
				±0.1pF	GRM1882C2A6R3BA01#
				±0.25pF	GRM1882C2A6R3CA01#
				±0.5pF	GRM1882C2A6R3DA01#
			6.4pF	±0.05pF	GRM1882C2A6R4WA01#
				±0.1pF	GRM1882C2A6R4BA01#
				±0.25pF	GRM1882C2A6R4CA01#
				±0.5pF	GRM1882C2A6R4DA01#
			6.5pF	±0.05pF	GRM1882C2A6R5WA01#
			•	±0.1pF	GRM1882C2A6R5BA01#
				±0.25pF	GRM1882C2A6R5CA01#
				±0.5pF	GRM1882C2A6R5DA01#
				_3.0pi	

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number	
0.9mm	100Vdc	СН	6.6pF	±0.05pF	GRM1882C2A6R6WA01#	
				±0.1pF	GRM1882C2A6R6BA01#	
				±0.25pF	GRM1882C2A6R6CA01#	
				±0.5pF	GRM1882C2A6R6DA01#	
			6.7pF	±0.05pF	GRM1882C2A6R7WA01#	
				±0.1pF	GRM1882C2A6R7BA01#	
				±0.25pF	GRM1882C2A6R7CA01#	
				±0.5pF	GRM1882C2A6R7DA01#	
			6.8pF	±0.05pF	GRM1882C2A6R8WA01#	
				±0.1pF	GRM1882C2A6R8BA01#	
				±0.25pF	GRM1882C2A6R8CA01#	
				±0.5pF	GRM1882C2A6R8DA01#	
			6.9pF	±0.05pF	GRM1882C2A6R9WA01#	
				±0.1pF	GRM1882C2A6R9BA01#	
				±0.25pF	GRM1882C2A6R9CA01#	
				±0.5pF	GRM1882C2A6R9DA01#	
			7.0pF	±0.05pF	GRM1882C2A7R0WA01#	
				±0.1pF	GRM1882C2A7R0BA01#	
				±0.25pF	GRM1882C2A7R0CA01#	
				±0.5pF	GRM1882C2A7R0DA01#	
			7.1pF	±0.05pF	GRM1882C2A7R1WA01#	
				±0.1pF	GRM1882C2A7R1BA01#	
				±0.25pF	GRM1882C2A7R1CA01#	
				±0.5pF	GRM1882C2A7R1DA01#	
			7.2pF	±0.05pF	GRM1882C2A7R2WA01#	
				±0.1pF	GRM1882C2A7R2BA01#	
				±0.25pF	GRM1882C2A7R2CA01#	
				±0.5pF	GRM1882C2A7R2DA01#	
			7.3pF	±0.05pF	GRM1882C2A7R3WA01#	
				±0.1pF	GRM1882C2A7R3BA01#	
				±0.25pF	GRM1882C2A7R3CA01#	
				±0.5pF	GRM1882C2A7R3DA01#	
			7.4pF	±0.05pF	GRM1882C2A7R4WA01#	
				±0.1pF	GRM1882C2A7R4BA01#	
				±0.25pF	GRM1882C2A7R4CA01#	
				±0.5pF	GRM1882C2A7R4DA01#	
			7.5pF	±0.05pF	GRM1882C2A7R5WA01#	
				±0.1pF	GRM1882C2A7R5BA01#	
				±0.25pF	GRM1882C2A7R5CA01#	
				±0.5pF	GRM1882C2A7R5DA01#	
			7.6pF	±0.05pF	GRM1882C2A7R6WA01#	
				±0.1pF	GRM1882C2A7R6BA01#	
				±0.25pF	GRM1882C2A7R6CA01#	
				±0.5pF	GRM1882C2A7R6DA01#	
			7.7pF	±0.05pF	GRM1882C2A7R7WA01#	
				±0.1pF	GRM1882C2A7R7BA01#	
				±0.25pF	GRM1882C2A7R7CA01#	
				±0.5pF	GRM1882C2A7R7DA01#	
			7.8pF	±0.05pF	GRM1882C2A7R8WA01#	
				±0.1pF	GRM1882C2A7R8BA01#	
				±0.25pF	GRM1882C2A7R8CA01#	
				±0.5pF	GRM1882C2A7R8DA01#	
			7.9pF	±0.05pF	GRM1882C2A7R9WA01#	
				±0.1pF	GRM1882C2A7R9BA01#	



T max.	Rated Voltage	TC Code	Сар.	Tol.	Part Number
0.9mm	100Vdc	СН	7.9pF	±0.25pF	GRM1882C2A7R9CA01#
				±0.5pF	GRM1882C2A7R9DA01#
			8.0pF	±0.05pF	GRM1882C2A8R0WA01#
				±0.1pF	GRM1882C2A8R0BA01#
				±0.25pF	GRM1882C2A8R0CA01#
				±0.5pF	GRM1882C2A8R0DA01#
			8.1pF	±0.05pF	GRM1882C2A8R1WA01#
				±0.1pF	GRM1882C2A8R1BA01#
					GRM1882C2A8R1CA01#
				±0.5pF	GRM1882C2A8R1DA01#
			8.2pF		GRM1882C2A8R2WA01#
			ор.	±0.1pF	GRM1882C2A8R2BA01#
				±0.25pF	GRM1882C2A8R2CA01#
					GRM1882C2A8R2DA01#
			0.05	±0.5pF	
			8.3pF	±0.05pF	GRM1882C2A8R3WA01#
				±0.1pF	GRM1882C2A8R3BA01#
				· ·	GRM1882C2A8R3CA01#
				±0.5pF	GRM1882C2A8R3DA01#
			8.4pF	±0.05pF	GRM1882C2A8R4WA01#
				±0.1pF	GRM1882C2A8R4BA01#
				±0.25pF	GRM1882C2A8R4CA01#
				±0.5pF	GRM1882C2A8R4DA01#
			8.5pF	±0.05pF	GRM1882C2A8R5WA01#
				±0.1pF	GRM1882C2A8R5BA01#
				±0.25pF	GRM1882C2A8R5CA01#
				±0.5pF	GRM1882C2A8R5DA01#
			8.6pF	±0.05pF	GRM1882C2A8R6WA01#
				±0.1pF	GRM1882C2A8R6BA01#
				±0.25pF	GRM1882C2A8R6CA01#
				±0.5pF	GRM1882C2A8R6DA01#
			8.7pF	±0.05pF	GRM1882C2A8R7WA01#
			•	±0.1pF	GRM1882C2A8R7BA01#
				±0.25pF	GRM1882C2A8R7CA01#
				±0.5pF	GRM1882C2A8R7DA01#
			8.8pF		GRM1882C2A8R8WA01#
			0.001	±0.1pF	GRM1882C2A8R8BA01#
					GRM1882C2A8R8CA01#
			00.5	±0.5pF	GRM1882C2A8R8DA01#
			8.9pF		GRM1882C2A8R9WA01#
				±0.1pF	GRM1882C2A8R9BA01#
					GRM1882C2A8R9CA01#
				±0.5pF	GRM1882C2A8R9DA01#
			9.0pF	±0.05pF	GRM1882C2A9R0WA01#
				±0.1pF	GRM1882C2A9R0BA01#
				±0.25pF	GRM1882C2A9R0CA01#
				±0.5pF	GRM1882C2A9R0DA01#
			9.1pF	±0.05pF	GRM1882C2A9R1WA01#
				±0.1pF	GRM1882C2A9R1BA01#
				±0.25pF	GRM1882C2A9R1CA01#
				±0.5pF	GRM1882C2A9R1DA01#
			9.2pF	±0.05pF	GRM1882C2A9R2WA01#
			14.	±0.1pF	GRM1882C2A9R2BA01#
				±0.25pF	GRM1882C2A9R2CA01#
				±0.5pF	GRM1882C2A9R2DA01#

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number
0.9mm	100Vdc	СН	9.3pF	±0.05pF	GRM1882C2A9R3WA01#
				±0.1pF	GRM1882C2A9R3BA01#
				±0.25pF	GRM1882C2A9R3CA01#
				±0.5pF	GRM1882C2A9R3DA01#
			9.4pF	±0.05pF	GRM1882C2A9R4WA01#
				±0.1pF	GRM1882C2A9R4BA01#
				±0.25pF	GRM1882C2A9R4CA01#
				±0.5pF	GRM1882C2A9R4DA01#
			9.5pF	±0.05pF	GRM1882C2A9R5WA01#
				±0.1pF	GRM1882C2A9R5BA01#
				±0.25pF	GRM1882C2A9R5CA01#
				±0.5pF	GRM1882C2A9R5DA01#
			9.6pF	±0.05pF	GRM1882C2A9R6WA01#
				±0.1pF	GRM1882C2A9R6BA01#
				±0.25pF	GRM1882C2A9R6CA01#
				±0.5pF	GRM1882C2A9R6DA01#
			9.7pF	±0.05pF	GRM1882C2A9R7WA01#
				±0.1pF	GRM1882C2A9R7BA01#
				±0.25pF	GRM1882C2A9R7CA01#
				±0.5pF	GRM1882C2A9R7DA01#
			9.8pF	±0.05pF	GRM1882C2A9R8WA01#
				±0.1pF	GRM1882C2A9R8BA01#
				±0.25pF	GRM1882C2A9R8CA01#
				±0.5pF	GRM1882C2A9R8DA01#
			9.9pF	±0.05pF	GRM1882C2A9R9WA01#
				±0.1pF	GRM1882C2A9R9BA01#
				±0.25pF	GRM1882C2A9R9CA01#
				±0.5pF	GRM1882C2A9R9DA01#
			10pF	±5%	GRM1882C2A100JA01#
			12pF	±5%	GRM1882C2A120JA01#
			15pF	±5%	GRM1882C2A150JA01#
			18pF	±5%	GRM1882C2A180JA01#
			22pF	±5%	GRM1882C2A220JA01#
			27pF	±5%	GRM1882C2A270JA01#
			33pF	±5%	GRM1882C2A330JA01#
			39pF	±5%	GRM1882C2A390JA01#
			47pF	±5%	GRM1882C2A470JA01#
			56pF	±5%	GRM1882C2A560JA01#
			68pF	±5%	GRM1882C2A680JA01#
			82pF	±5%	GRM1882C2A820JA01#
			100pF	±5%	GRM1882C2A101JA01#
			120pF	±5%	GRM1882C2A121JA01#
			150pF	±5%	GRM1882C2A151JA01#
			180pF	±5%	GRM1882C2A181JA01#
			220pF	±5%	GRM1882C2A221JA01#
			270pF	±5%	GRM1882C2A271JA01#
			330pF	±5%	GRM1882C2A331JA01#
			390pF	±5%	GRM1882C2A391JA01#
			470pF	±5%	GRM1882C2A471JA01#
			560pF	±5%	GRM1882C2A561JA01#
			680pF	±5%	GRM1882C2A681JA01#
			820pF	±5%	GRM1882C2A821JA01#
			1000pF	±5%	GRM1882C2A102JA01#
			1200pF	±5%	GRM1882C2A122JA01#
			Part nur	nber # indic	cates the package specification code

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T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number
0.9mm	100Vdc	СН	1500pF	±5%	GRM1882C2A152JA01#
	50Vdc	COG	0.5pF	±0.05pF	GRM1885C1HR50WA01#
				±0.1pF	GRM1885C1HR50BA01#
			0.6pF	±0.05pF	GRM1885C1HR60WA01#
				±0.1pF	GRM1885C1HR60BA01#
			0.7pF	±0.05pF	GRM1885C1HR70WA01#
				±0.1pF	GRM1885C1HR70BA01#
			0.8pF	±0.05pF	GRM1885C1HR80WA01#
				±0.1pF	GRM1885C1HR80BA01#
			0.9pF	±0.05pF	GRM1885C1HR90WA01#
				±0.1pF	GRM1885C1HR90BA01#
			1.0pF	±0.05pF	GRM1885C1H1R0WA01#
				±0.1pF	GRM1885C1H1R0BA01#
				±0.25pF	GRM1885C1H1R0CA01#
			1.1pF	±0.05pF	GRM1885C1H1R1WA01#
				±0.1pF	GRM1885C1H1R1BA01#
				±0.25pF	GRM1885C1H1R1CA01#
			1.2pF	±0.05pF	GRM1885C1H1R2WA01#
				±0.1pF	GRM1885C1H1R2BA01#
				±0.25pF	GRM1885C1H1R2CA01#
			1.3pF	±0.05pF	GRM1885C1H1R3WA01#
				±0.1pF	GRM1885C1H1R3BA01#
				±0.25pF	GRM1885C1H1R3CA01#
			1.4pF	±0.05pF	GRM1885C1H1R4WA01#
				±0.1pF	GRM1885C1H1R4BA01#
				±0.25pF	GRM1885C1H1R4CA01#
			1.5pF	±0.05pF	GRM1885C1H1R5WA01#
				±0.1pF	GRM1885C1H1R5BA01#
				±0.25pF	GRM1885C1H1R5CA01#
			1.6pF	±0.05pF	GRM1885C1H1R6WA01#
				±0.1pF	GRM1885C1H1R6BA01#
				±0.25pF	GRM1885C1H1R6CA01#
			1.7pF	±0.05pF	GRM1885C1H1R7WA01#
				±0.1pF	GRM1885C1H1R7BA01#
			40.5	±0.25pF	GRM1885C1H1R7CA01#
			1.8pF	±0.05pF	GRM1885C1H1R8WA01#
				±0.1pF	GRM1885C1H1R8BA01#
			1 0 0 =	±0.25pF	GRM1885C1H1R8CA01# GRM1885C1H1R9WA01#
			1.9pF	±0.05pF ±0.1pF	GRM1885C1H1R9WA01#
				· ·	
			2.0pF	±0.25pF ±0.05pF	
			∠.vµг	±0.05pF	GRM1885C1H2R0BA01#
				±0.1pr ±0.25pF	GRM1885C1H2R0CA01#
			2.1pF	±0.25pF	GRM1885C1H2R1WA01#
			2.1PF	±0.05pF	GRM1885C1H2R1BA01#
				±0.1pF ±0.25pF	GRM1885C1H2R1CA01#
			2.2pF	±0.25pi	GRM1885C1H2R2WA01#
			2.2pi	±0.05pi	GRM1885C1H2R2BA01#
				±0.25pF	GRM1885C1H2R2CA01#
			2.3pF	±0.05pF	GRM1885C1H2R3WA01#
			opi	±0.1pF	GRM1885C1H2R3BA01#
				±0.25pF	GRM1885C1H2R3CA01#
			2.4pF	±0.05pF	GRM1885C1H2R4WA01#
			· · · ·	0.00pi	

Т	Rated	тс	•	. .	5 .W .	
max.	Voltage		Сар.	Tol.	Part Number	
0.9mm	50Vdc	C0G	2.4pF	±0.1pF	GRM1885C1H2R4BA01#	
				±0.25pF		
			2.5pF	±0.05pF		
				±0.1pF	GRM1885C1H2R5BA01#	
				±0.25pF		
			2.6pF	±0.05pF	GRM1885C1H2R6WA01#	
				±0.1pF	GRM1885C1H2R6BA01#	
				±0.25pF		
			2.7pF	±0.05pF		
				±0.1pF	GRM1885C1H2R7BA01#	
			00.5	±0.25pF		
			2.8pF	±0.05pF		
				±0.1pF	GRM1885C1H2R8BA01#	
			2.05	±0.25pF ±0.05pF		
			2.9pF	<u> </u>		
				±0.1pF	GRM1885C1H2R9BA01# GRM1885C1H2R9CA01#	
			3.0pF	±0.25pF ±0.05pF		
			3.0pi	±0.1pF	GRM1885C1H3R0BA01#	
				±0.25pF		
			3.1pF	±0.05pF	GRM1885C1H3R1WA01#	
			0.161	±0.1pF	GRM1885C1H3R1BA01#	
				±0.25pF		
			3.2pF	±0.05pF		
				±0.1pF	GRM1885C1H3R2BA01#	
				±0.25pF		
			3.3pF	±0.05pF	GRM1885C1H3R3WA01#	
			•	±0.1pF	GRM1885C1H3R3BA01#	
				±0.25pF	GRM1885C1H3R3CA01#	
			3.4pF	±0.05pF	GRM1885C1H3R4WA01#	
				±0.1pF	GRM1885C1H3R4BA01#	
				±0.25pF	GRM1885C1H3R4CA01#	
			3.5pF	±0.05pF	GRM1885C1H3R5WA01#	
				±0.1pF	GRM1885C1H3R5BA01#	
				±0.25pF	GRM1885C1H3R5CA01#	
			3.6pF	±0.05pF	GRM1885C1H3R6WA01#	
				±0.1pF	GRM1885C1H3R6BA01#	
				±0.25pF	GRM1885C1H3R6CA01#	
			3.7pF	±0.05pF	GRM1885C1H3R7WA01#	
				±0.1pF	GRM1885C1H3R7BA01#	
				±0.25pF	GRM1885C1H3R7CA01#	
			3.8pF	±0.05pF	GRM1885C1H3R8WA01#	
				±0.1pF	GRM1885C1H3R8BA01#	
				±0.25pF		
			3.9pF	±0.05pF		
				±0.1pF	GRM1885C1H3R9BA01#	
			46.5	±0.25pF		
			4.0pF	±0.05pF		
				±0.1pF	GRM1885C1H4R0BA01#	
			1155	±0.25pF		
			4.1pF	±0.05pF		
				±0.1pF	GRM1885C1H4R1BA01#	
			4 2n=	±0.25pF		
			4.2pF	±0.05pF	GRM1885C1H4R2WA01#	



T max.	Rated Voltage	TC Code	Сар.	Tol.	Part Number
0.9mm	50Vdc	COG	4.2pF	±0.1pF	GRM1885C1H4R2BA01#
				±0.25pF	GRM1885C1H4R2CA01#
			4.3pF	±0.05pF	GRM1885C1H4R3WA01#
				±0.1pF	GRM1885C1H4R3BA01#
				±0.25pF	GRM1885C1H4R3CA01#
			4.4pF	±0.05pF	GRM1885C1H4R4WA01#
				±0.1pF	GRM1885C1H4R4BA01#
				±0.25pF	GRM1885C1H4R4CA01#
			4.5pF	±0.05pF	GRM1885C1H4R5WA01#
				±0.1pF	GRM1885C1H4R5BA01#
				±0.25pF	GRM1885C1H4R5CA01#
			4.6pF	±0.05pF	GRM1885C1H4R6WA01#
				±0.1pF	GRM1885C1H4R6BA01#
				±0.25pF	GRM1885C1H4R6CA01#
			4.7pF	±0.05pF	GRM1885C1H4R7WA01#
				±0.1pF	GRM1885C1H4R7BA01#
				±0.25pF	GRM1885C1H4R7CA01#
			4.8pF	±0.05pF	GRM1885C1H4R8WA01#
				±0.1pF	GRM1885C1H4R8BA01#
				±0.25pF	GRM1885C1H4R8CA01#
			4.9pF	±0.05pF	GRM1885C1H4R9WA01#
				±0.1pF	GRM1885C1H4R9BA01#
				±0.25pF	GRM1885C1H4R9CA01#
			5.0pF	±0.05pF	GRM1885C1H5R0WA01#
			·	±0.1pF	GRM1885C1H5R0BA01#
				-	GRM1885C1H5R0CA01#
			5.1pF	±0.05pF	GRM1885C1H5R1WA01#
				±0.1pF	GRM1885C1H5R1BA01#
				±0.25pF	GRM1885C1H5R1CA01#
				±0.5pF	GRM1885C1H5R1DA01#
			5.2pF	±0.05pF	GRM1885C1H5R2WA01#
				±0.1pF	GRM1885C1H5R2BA01#
				±0.25pF	GRM1885C1H5R2CA01#
				±0.5pF	GRM1885C1H5R2DA01#
			5.3pF	-	GRM1885C1H5R3WA01#
			0.00.	±0.1pF	GRM1885C1H5R3BA01#
				±0.25pF	GRM1885C1H5R3CA01#
				±0.5pF	GRM1885C1H5R3DA01#
			5.4pF		GRM1885C1H5R4WA01#
			0. 4 pi	±0.1pF	GRM1885C1H5R4BA01#
					GRM1885C1H5R4CA01#
				±0.25pi	GRM1885C1H5R4DA01#
			5 5 n E	-	
			5.5pF	±0.05pF	GRM1885C1H5R5WA01#
				±0.1pF	GRM1885C1H5R5BA01#
				±0.25pF	GRM1885C1H5R5CA01#
			E 6∞F	±0.5pF	GRM1885C1H5R5DA01#
			5.6pF		GRM1885C1H5R6WA01#
				±0.1pF	GRM1885C1H5R6BA01#
					GRM1885C1H5R6CA01#
				±0.5pF	GRM1885C1H5R6DA01#
			5.7pF	±0.05pF	GRM1885C1H5R7WA01#
				±0.1pF	GRM1885C1H5R7BA01#
				±0.25pF	GRM1885C1H5R7CA01#
	I			±0.5pF	GRM1885C1H5R7DA01#

T max.	Rated Voltage	TC Code	Сар.	Tol.	Part Number	
0.9mm	50Vdc	COG	5.8pF	±0.05pF	GRM1885C1H5R8WA01#	
				±0.1pF	GRM1885C1H5R8BA01#	
				±0.25pF	GRM1885C1H5R8CA01#	
				±0.5pF	GRM1885C1H5R8DA01#	
			5.9pF	±0.05pF	GRM1885C1H5R9WA01#	
				±0.1pF	GRM1885C1H5R9BA01#	
				±0.25pF	GRM1885C1H5R9CA01#	
				±0.5pF	GRM1885C1H5R9DA01#	
			6.0pF	±0.05pF	GRM1885C1H6R0WA01#	
				±0.1pF	GRM1885C1H6R0BA01#	
				±0.25pF	GRM1885C1H6R0CA01#	
				±0.5pF	GRM1885C1H6R0DA01#	
			6.1pF	±0.05pF	GRM1885C1H6R1WA01#	
				±0.1pF	GRM1885C1H6R1BA01#	
				±0.25pF	GRM1885C1H6R1CA01#	
				±0.5pF	GRM1885C1H6R1DA01#	
			6.2pF	±0.05pF	GRM1885C1H6R2WA01#	
				±0.1pF	GRM1885C1H6R2BA01#	
				±0.25pF	GRM1885C1H6R2CA01#	
				±0.5pF	GRM1885C1H6R2DA01#	
			6.3pF	±0.05pF	GRM1885C1H6R3WA01#	
				±0.1pF	GRM1885C1H6R3BA01#	
				±0.25pF	GRM1885C1H6R3CA01#	
				±0.5pF	GRM1885C1H6R3DA01#	
			6.4pF	±0.05pF	GRM1885C1H6R4WA01#	
				±0.1pF	GRM1885C1H6R4BA01#	
				±0.25pF	GRM1885C1H6R4CA01#	
				±0.5pF	GRM1885C1H6R4DA01#	
			6.5pF	±0.05pF	GRM1885C1H6R5WA01#	
				±0.1pF	GRM1885C1H6R5BA01#	
				±0.25pF	GRM1885C1H6R5CA01#	
				±0.5pF	GRM1885C1H6R5DA01#	
			6.6pF	±0.05pF	GRM1885C1H6R6WA01#	
				±0.1pF	GRM1885C1H6R6BA01#	
				±0.25pF	GRM1885C1H6R6CA01#	
				±0.5pF	GRM1885C1H6R6DA01#	
			6.7pF	±0.05pF	GRM1885C1H6R7WA01#	
				±0.1pF	GRM1885C1H6R7BA01#	
				±0.25pF	GRM1885C1H6R7CA01#	
				±0.5pF	GRM1885C1H6R7DA01#	
			6.8pF	±0.05pF	GRM1885C1H6R8WA01#	
				±0.1pF	GRM1885C1H6R8BA01#	
				±0.25pF	GRM1885C1H6R8CA01#	
				±0.5pF	GRM1885C1H6R8DA01#	
			6.9pF	±0.05pF	GRM1885C1H6R9WA01#	
				±0.1pF	GRM1885C1H6R9BA01#	
				±0.25pF	GRM1885C1H6R9CA01#	
				±0.5pF	GRM1885C1H6R9DA01#	
			7.0pF	±0.05pF	GRM1885C1H7R0WA01#	
				±0.1pF	GRM1885C1H7R0BA01#	
				±0.25pF	GRM1885C1H7R0CA01#	
				±0.5pF	GRM1885C1H7R0DA01#	
			7.1pF	±0.05pF	GRM1885C1H7R1WA01#	
				±0.1pF	GRM1885C1H7R1BA01#	

T max.	Rated Voltage	TC Code	Сар.	Tol.	Part Number
0.9mm	50Vdc	COG	7.1pF	±0.25pF	GRM1885C1H7R1CA01#
				±0.5pF	GRM1885C1H7R1DA01#
			7.2pF	±0.05pF	GRM1885C1H7R2WA01#
				±0.1pF	GRM1885C1H7R2BA01#
				±0.25pF	GRM1885C1H7R2CA01#
				±0.5pF	GRM1885C1H7R2DA01#
			7.3pF	±0.05pF	GRM1885C1H7R3WA01#
			•	±0.1pF	GRM1885C1H7R3BA01#
				±0.25pF	
				±0.5pF	GRM1885C1H7R3DA01#
			7.4pF		
			7.4pr	±0.05pF	
				±0.1pF	GRM1885C1H7R4BA01#
				±0.25pF	
				±0.5pF	GRM1885C1H7R4DA01#
			7.5pF	±0.05pF	GRM1885C1H7R5WA01#
				±0.1pF	GRM1885C1H7R5BA01#
				±0.25pF	GRM1885C1H7R5CA01#
				±0.5pF	GRM1885C1H7R5DA01#
			7.6pF	±0.05pF	GRM1885C1H7R6WA01#
				±0.1pF	GRM1885C1H7R6BA01#
				±0.25pF	GRM1885C1H7R6CA01#
				±0.5pF	GRM1885C1H7R6DA01#
			7.7pF	±0.05pF	GRM1885C1H7R7WA01#
				±0.1pF	GRM1885C1H7R7BA01#
				±0.25pF	GRM1885C1H7R7CA01#
				±0.5pF	GRM1885C1H7R7DA01#
			7.8pF	±0.05pF	GRM1885C1H7R8WA01#
			7.001	±0.1pF	GRM1885C1H7R8BA01#
				±0.25pF	
				-	GRM1885C1H7R8DA01#
			7.05	±0.5pF	
			7.9pF	±0.05pF	
				±0.1pF	GRM1885C1H7R9BA01#
				±0.25pF	
				±0.5pF	GRM1885C1H7R9DA01#
			8.0pF	±0.05pF	GRM1885C1H8R0WA01#
				±0.1pF	GRM1885C1H8R0BA01#
				±0.25pF	GRM1885C1H8R0CA01#
				±0.5pF	GRM1885C1H8R0DA01#
			8.1pF	±0.05pF	GRM1885C1H8R1WA01#
				±0.1pF	GRM1885C1H8R1BA01#
				±0.25pF	GRM1885C1H8R1CA01#
				±0.5pF	GRM1885C1H8R1DA01#
			8.2pF	±0.05pF	GRM1885C1H8R2WA01#
				±0.1pF	GRM1885C1H8R2BA01#
				±0.25pF	
				±0.5pF	GRM1885C1H8R2DA01#
			8.3pF	±0.05pF	
			5.5pi	±0.1pF	GRM1885C1H8R3BA01#
				-	
				±0.25pF	GRM1885C1H8R3CA01#
			0.1 -	±0.5pF	GRM1885C1H8R3DA01#
			8.4pF	±0.05pF	
				±0.1pF	GRM1885C1H8R4BA01#
				±0.25pF	GRM1885C1H8R4CA01#
		!			

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number	
).9mm	50Vdc	COG	8.5pF	±0.05pF	GRM1885C1H8R5WA01#	
				±0.1pF	GRM1885C1H8R5BA01#	
				±0.25pF	GRM1885C1H8R5CA01#	
				±0.5pF	GRM1885C1H8R5DA01#	
			8.6pF	±0.05pF	GRM1885C1H8R6WA01#	
				±0.1pF	GRM1885C1H8R6BA01#	
				±0.25pF	GRM1885C1H8R6CA01#	
				±0.5pF	GRM1885C1H8R6DA01#	
			8.7pF	±0.05pF	GRM1885C1H8R7WA01#	
				±0.1pF	GRM1885C1H8R7BA01#	
				±0.25pF	GRM1885C1H8R7CA01#	
				±0.5pF	GRM1885C1H8R7DA01#	
			8.8pF	±0.05pF	GRM1885C1H8R8WA01#	
				±0.1pF	GRM1885C1H8R8BA01#	
				±0.25pF	GRM1885C1H8R8CA01#	
				±0.5pF	GRM1885C1H8R8DA01#	
			8.9pF	±0.05pF	GRM1885C1H8R9WA01#	
				±0.1pF	GRM1885C1H8R9BA01#	
				±0.25pF	GRM1885C1H8R9CA01#	
				±0.5pF	GRM1885C1H8R9DA01#	
			9.0pF	±0.05pF	GRM1885C1H9R0WA01#	
				±0.1pF	GRM1885C1H9R0BA01#	
				±0.25pF	GRM1885C1H9R0CA01#	
				±0.5pF	GRM1885C1H9R0DA01#	
			9.1pF	±0.05pF	GRM1885C1H9R1WA01#	
				±0.1pF	GRM1885C1H9R1BA01#	
				±0.25pF	GRM1885C1H9R1CA01#	
				±0.5pF	GRM1885C1H9R1DA01#	
			9.2pF	±0.05pF		
				±0.1pF	GRM1885C1H9R2BA01#	
				±0.25pF		
				±0.5pF	GRM1885C1H9R2DA01#	
			9.3pF	±0.05pF	GRM1885C1H9R3WA01#	
				±0.1pF	GRM1885C1H9R3BA01#	
				±0.25pF	GRM1885C1H9R3CA01#	
				±0.5pF	GRM1885C1H9R3DA01#	
			9.4pF	±0.05pF		
				±0.1pF	GRM1885C1H9R4BA01#	
				±0.25pF	GRM1885C1H9R4CA01#	
			0.5.5	±0.5pF	GRM1885C1H9R4DA01#	
			9.5pF	±0.05pF	GRM1885C1H9R5WA01#	
				±0.1pF	GRM1885C1H9R5BA01#	
				<u> </u>	GRM1885C1H9R5CA01#	
				±0.5pF	GRM1885C1H9R5DA01#	
			9.6pF	<u> </u>	GRM1885C1H9R6WA01#	
				±0.1pF	GRM1885C1H9R6BA01#	
				±0.25pF	GRM1885C1H9R6CA01#	
			0.75	±0.5pF	GRM1885C1H9R6DA01#	
			9.7pF	±0.05pF	GRM1885C1H9R7WA01#	
				±0.1pF	GRM1885C1H9R7BA01#	
				±0.25pF	GRM1885C1H9R7CA01#	
			0005	±0.5pF	GRM1885C1H9R7DA01#	
			9.8pF	±0.05pF ±0.1pF	GRM1885C1H9R8WA01# GRM1885C1H9R8BA01#	
			David :			٠٠٠.
			ran nur	inner # India	ates the package specification	code.



T max.	Rated Voltage	TC Code	Сар.	Tol.	Part Number
.9mm	50Vdc	COG	9.8pF	±0.25pF	GRM1885C1H9R8CA01#
				±0.5pF	GRM1885C1H9R8DA01#
			9.9pF	±0.05pF	GRM1885C1H9R9WA01#
				±0.1pF	GRM1885C1H9R9BA01#
				±0.25pF	GRM1885C1H9R9CA01#
				±0.5pF	GRM1885C1H9R9DA01#
			10pF	±5%	GRM1885C1H100JA01#
			12pF	±5%	GRM1885C1H120JA01#
			15pF	±5%	GRM1885C1H150JA01#
			18pF	±5%	GRM1885C1H180JA01#
			22pF	±5%	GRM1885C1H220JA01#
			27pF	±5%	GRM1885C1H270JA01#
			33pF	±5%	GRM1885C1H330JA01#
			39pF	±5%	GRM1885C1H390JA01#
			47pF	±5%	GRM1885C1H470JA01#
			56pF	±5%	GRM1885C1H560JA01#
			68pF	±5%	GRM1885C1H680JA01#
			82pF	±5%	GRM1885C1H820JA01#
			100pF	±5%	GRM1885C1H101JA01#
			120pF	±5%	GRM1885C1H121JA01#
			150pF	±5%	GRM1885C1H151JA01#
			180pF	±5%	GRM1885C1H181JA01#
			220pF	±5%	GRM1885C1H221JA01#
			270pF	±5%	GRM1885C1H271JA01#
			330pF	±5%	GRM1885C1H331JA01#
			390pF	±5%	GRM1885C1H391JA01#
			470pF	±5%	GRM1885C1H471JA01#
			560pF	±5%	GRM1885C1H561JA01#
			680pF	±5%	GRM1885C1H681JA01#
			820pF	±5%	GRM1885C1H821JA01#
			1000pF	±5%	GRM1885C1H102JA01#
			1200pF	±5%	GRM1885C1H122JA01#
			1500pF	±5%	GRM1885C1H152JA01#
			1800pF	±5%	GRM1885C1H182JA01#
			2200pF	±5%	GRM1885C1H222JA01#
			2700pF	±5%	GRM1885C1H272JA01#
					GRM1885C1H332JA01#
			3300pF	±5%	
		CV	3900pF	±5%	GRM1885C1H392JA01#
		CK	0.5pF	±0.05pF	GRM1884C1HR50WA01#
			0.0-5	±0.1pF	GRM1884C1HR50BA01#
			0.6pF	±0.05pF	GRM1884C1HR60WA01#
				±0.1pF	GRM1884C1HR60BA01#
			0.7pF	±0.05pF	GRM1884C1HR70WA01#
				±0.1pF	GRM1884C1HR70BA01#
			0.8pF	±0.05pF	GRM1884C1HR80WA01#
				±0.1pF	GRM1884C1HR80BA01#
			0.9pF	±0.05pF	GRM1884C1HR90WA01#
				±0.1pF	GRM1884C1HR90BA01#
			1.0pF	±0.05pF	GRM1884C1H1R0WA01#
				±0.1pF	GRM1884C1H1R0BA01#
				±0.25pF	GRM1884C1H1R0CA01#
			1.1pF	±0.05pF	GRM1884C1H1R1WA01#
				±0.1pF	GRM1884C1H1R1BA01#
				±0.25pF	GRM1884C1H1R1CA01#

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number
0.9mm	50Vdc	СК	1.2pF	±0.05pF	GRM1884C1H1R2WA01#
				±0.1pF	GRM1884C1H1R2BA01#
				±0.25pF	GRM1884C1H1R2CA01#
			1.3pF	±0.05pF	GRM1884C1H1R3WA01#
				±0.1pF	GRM1884C1H1R3BA01#
				±0.25pF	GRM1884C1H1R3CA01#
			1.4pF	±0.05pF	GRM1884C1H1R4WA01#
				±0.1pF	GRM1884C1H1R4BA01#
				±0.25pF	GRM1884C1H1R4CA01#
			1.5pF	±0.05pF	GRM1884C1H1R5WA01#
				±0.1pF	GRM1884C1H1R5BA01#
				±0.25pF	GRM1884C1H1R5CA01#
			1.6pF	±0.05pF	GRM1884C1H1R6WA01#
				±0.1pF	GRM1884C1H1R6BA01#
				±0.25pF	GRM1884C1H1R6CA01#
			1.7pF	±0.05pF	GRM1884C1H1R7WA01#
				±0.1pF	GRM1884C1H1R7BA01#
				±0.25pF	GRM1884C1H1R7CA01#
			1.8pF	±0.05pF	GRM1884C1H1R8WA01#
				±0.1pF	GRM1884C1H1R8BA01#
				±0.25pF	GRM1884C1H1R8CA01#
			1.9pF	±0.05pF	GRM1884C1H1R9WA01#
				±0.1pF	GRM1884C1H1R9BA01#
				±0.25pF	GRM1884C1H1R9CA01#
			2.0pF	±0.05pF	GRM1884C1H2R0WA01#
				±0.1pF	GRM1884C1H2R0BA01#
				±0.25pF	GRM1884C1H2R0CA01#
		CJ	2.1pF	±0.05pF	GRM1883C1H2R1WA01#
				±0.1pF	GRM1883C1H2R1BA01#
				±0.25pF	GRM1883C1H2R1CA01#
			2.2pF	±0.05pF	GRM1883C1H2R2WA01#
				±0.1pF	GRM1883C1H2R2BA01#
				±0.25pF	GRM1883C1H2R2CA01#
			2.3pF	±0.05pF	GRM1883C1H2R3WA01#
				±0.1pF	GRM1883C1H2R3BA01#
				±0.25pF	GRM1883C1H2R3CA01#
			2.4pF	±0.05pF	GRM1883C1H2R4WA01#
				±0.1pF	GRM1883C1H2R4BA01#
				±0.25pF	GRM1883C1H2R4CA01#
			2.5pF	±0.05pF	GRM1883C1H2R5WA01#
				±0.1pF	GRM1883C1H2R5BA01#
				±0.25pF	GRM1883C1H2R5CA01#
			2.6pF	±0.05pF	GRM1883C1H2R6WA01#
				±0.1pF	GRM1883C1H2R6BA01#
				±0.25pF	GRM1883C1H2R6CA01#
			2.7pF	±0.05pF	GRM1883C1H2R7WA01#
				±0.1pF	GRM1883C1H2R7BA01#
			_	±0.25pF	GRM1883C1H2R7CA01#
			2.8pF	±0.05pF	GRM1883C1H2R8WA01#
				±0.1pF	GRM1883C1H2R8BA01#
			_	±0.25pF	GRM1883C1H2R8CA01#
			2.9pF	±0.05pF	GRM1883C1H2R9WA01#
				±0.1pF	GRM1883C1H2R9BA01#
	I			±0.25pF	GRM1883C1H2R9CA01#

max.

0.9mm

(→ **■** 1.6×0.8mm)

Т	Rated	TC	Cap.	Tol.	Part Number
max.	Voltage				
0.9mm	50Vdc	CJ	3.0pF	±0.05pF	GRM1883C1H3R0WA01#
				±0.1pF	GRM1883C1H3R0BA01#
			0.4.5	±0.25pF	GRM1883C1H3R0CA01#
			3.1pF	±0.05pF	GRM1883C1H3R1WA01#
				±0.1pF	GRM1883C1H3R1BA01#
				±0.25pF	GRM1883C1H3R1CA01#
			3.2pF	±0.05pF	GRM1883C1H3R2WA01#
				±0.1pF	GRM1883C1H3R2BA01#
				±0.25pF	GRM1883C1H3R2CA01#
			3.3pF	±0.05pF	GRM1883C1H3R3WA01#
				±0.1pF	GRM1883C1H3R3BA01#
				±0.25pF	GRM1883C1H3R3CA01#
			3.4pF	±0.05pF	GRM1883C1H3R4WA01#
				±0.1pF	GRM1883C1H3R4BA01#
				±0.25pF	GRM1883C1H3R4CA01#
			3.5pF	±0.05pF	GRM1883C1H3R5WA01#
				±0.1pF	GRM1883C1H3R5BA01#
				±0.25pF	GRM1883C1H3R5CA01#
			3.6pF	±0.05pF	GRM1883C1H3R6WA01#
			0.0рі	±0.1pF	GRM1883C1H3R6BA01#
				-	
			0.755	±0.25pF	GRM1883C1H3R6CA01#
			3.7pF	±0.05pF	GRM1883C1H3R7WA01#
				±0.1pF	GRM1883C1H3R7BA01#
				±0.25pF	GRM1883C1H3R7CA01#
			3.8pF	±0.05pF	GRM1883C1H3R8WA01#
				±0.1pF	GRM1883C1H3R8BA01#
				±0.25pF	GRM1883C1H3R8CA01#
			3.9pF	±0.05pF	GRM1883C1H3R9WA01#
				±0.1pF	GRM1883C1H3R9BA01#
				±0.25pF	GRM1883C1H3R9CA01#
		СН	4.0pF	±0.05pF	GRM1882C1H4R0WA01#
				±0.1pF	GRM1882C1H4R0BA01#
				±0.25pF	GRM1882C1H4R0CA01#
			4.1pF	±0.05pF	GRM1882C1H4R1WA01#
				±0.1pF	GRM1882C1H4R1BA01#
				±0.25pF	GRM1882C1H4R1CA01#
			4.2pF	±0.05pF	GRM1882C1H4R2WA01#
				±0.1pF	GRM1882C1H4R2BA01#
				±0.25pF	GRM1882C1H4R2CA01#
			4.3pF		GRM1882C1H4R3WA01#
			4.5pi	±0.05pF	
				±0.1pF	GRM1882C1H4R3BA01#
				±0.25pF	GRM1882C1H4R3CA01#
			4.4pF	±0.05pF	GRM1882C1H4R4WA01#
				±0.1pF	GRM1882C1H4R4BA01#
				±0.25pF	GRM1882C1H4R4CA01#
			4.5pF	±0.05pF	GRM1882C1H4R5WA01#
				±0.1pF	GRM1882C1H4R5BA01#
				±0.25pF	GRM1882C1H4R5CA01#
			4.6pF	±0.05pF	GRM1882C1H4R6WA01#
				±0.1pF	GRM1882C1H4R6BA01#
				±0.25pF	GRM1882C1H4R6CA01#
			4.7pF	±0.05pF	GRM1882C1H4R7WA01#
				±0.1pF	GRM1882C1H4R7BA01#
				<u> </u>	

Rated Voltage	TC Code	Сар.	Tol.	Part Number	
50Vdc	СН	4.8pF	±0.05pF	GRM1882C1H4R8WA01#	
			±0.1pF	GRM1882C1H4R8BA01#	
			±0.25pF	GRM1882C1H4R8CA01#	
		4.9pF	±0.05pF	GRM1882C1H4R9WA01#	
			±0.1pF	GRM1882C1H4R9BA01#	
			±0.25pF	GRM1882C1H4R9CA01#	
		5.0pF	±0.05pF	GRM1882C1H5R0WA01#	
			±0.1pF	GRM1882C1H5R0BA01#	
			±0.25pF	GRM1882C1H5R0CA01#	
		5.1pF	±0.05pF	GRM1882C1H5R1WA01#	
			±0.1pF	GRM1882C1H5R1BA01#	
			±0.25pF	GRM1882C1H5R1CA01#	
			±0.5pF	GRM1882C1H5R1DA01#	
		5.2pF	±0.05pF	GRM1882C1H5R2WA01#	
			±0.1pF	GRM1882C1H5R2BA01#	
			±0.25pF	GRM1882C1H5R2CA01#	
			±0.5pF	GRM1882C1H5R2DA01#	
		5.3pF	±0.05pF	GRM1882C1H5R3WA01#	
			±0.1pF	GRM1882C1H5R3BA01#	
			±0.25pF	GRM1882C1H5R3CA01#	
			±0.5pF	GRM1882C1H5R3DA01#	
		5.4pF	±0.05pF	GRM1882C1H5R4WA01#	
			±0.1pF	GRM1882C1H5R4BA01#	
			±0.25pF	GRM1882C1H5R4CA01#	
			±0.5pF	GRM1882C1H5R4DA01#	
		5.5pF	±0.05pF	GRM1882C1H5R5WA01#	
			±0.1pF	GRM1882C1H5R5BA01#	
			±0.25pF	GRM1882C1H5R5CA01#	
			±0.5pF	GRM1882C1H5R5DA01#	
		5.6pF	±0.05pF	GRM1882C1H5R6WA01#	
			±0.1pF	GRM1882C1H5R6BA01#	
			±0.25pF	GRM1882C1H5R6CA01#	
			±0.5pF	GRM1882C1H5R6DA01#	
		5.7pF	±0.05pF	GRM1882C1H5R7WA01#	
			±0.1pF	GRM1882C1H5R7BA01#	
			±0.25pF	GRM1882C1H5R7CA01#	
			±0.5pF	GRM1882C1H5R7DA01#	
		5.8pF	±0.05pF	GRM1882C1H5R8WA01#	
			±0.1pF	GRM1882C1H5R8BA01#	
			±0.25pF	GRM1882C1H5R8CA01#	
			±0.5pF	GRM1882C1H5R8DA01#	
		5.9pF	±0.05pF	GRM1882C1H5R9WA01#	
			±0.1pF	GRM1882C1H5R9BA01#	
			±0.25pF	GRM1882C1H5R9CA01#	
			±0.5pF	GRM1882C1H5R9DA01#	
		6.0pF	±0.05pF	GRM1882C1H6R0WA01#	
			±0.1pF	GRM1882C1H6R0BA01#	
			±0.25pF	GRM1882C1H6R0CA01#	
			±0.5pF	GRM1882C1H6R0DA01#	
		6.1pF	±0.05pF	GRM1882C1H6R1WA01#	
			±0.1pF	GRM1882C1H6R1BA01#	
			±0.25pF	GRM1882C1H6R1CA01#	
			±0.5pF	GRM1882C1H6R1DA01#	
		6.2pF	±0.05pF	GRM1882C1H6R2WA01#	
		Part nur	nber # indic	cates the package specification	code.

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T max.	Rated Voltage	TC Code	Сар.	Tol.	Part Number
.9mm	50Vdc	СН	6.2pF	±0.1pF	GRM1882C1H6R2BA01#
				±0.25pF	GRM1882C1H6R2CA01#
				±0.5pF	GRM1882C1H6R2DA01#
			6.3pF	±0.05pF	GRM1882C1H6R3WA01#
				±0.1pF	GRM1882C1H6R3BA01#
				±0.25pF	GRM1882C1H6R3CA01#
				±0.5pF	GRM1882C1H6R3DA01#
			6.4pF	±0.05pF	GRM1882C1H6R4WA01#
				±0.1pF	GRM1882C1H6R4BA01#
				±0.25pF	GRM1882C1H6R4CA01#
				±0.5pF	GRM1882C1H6R4DA01#
			6.5pF	±0.05pF	GRM1882C1H6R5WA01#
				±0.1pF	GRM1882C1H6R5BA01#
				±0.25pF	GRM1882C1H6R5CA01#
				±0.5pF	GRM1882C1H6R5DA01#
			6.6pF	±0.05pF	GRM1882C1H6R6WA01#
				±0.1pF	GRM1882C1H6R6BA01#
				±0.25pF	GRM1882C1H6R6CA01#
				±0.5pF	GRM1882C1H6R6DA01#
			6.7pF	±0.05pF	GRM1882C1H6R7WA01#
				±0.1pF	GRM1882C1H6R7BA01#
				±0.25pF	GRM1882C1H6R7CA01#
				±0.5pF	GRM1882C1H6R7DA01#
			6.8pF	±0.05pF	GRM1882C1H6R8WA01#
				±0.1pF	GRM1882C1H6R8BA01#
				±0.25pF	GRM1882C1H6R8CA01#
				±0.5pF	GRM1882C1H6R8DA01#
			6.9pF	±0.05pF	GRM1882C1H6R9WA01#
				±0.1pF	GRM1882C1H6R9BA01#
				±0.25pF	GRM1882C1H6R9CA01#
				±0.5pF	GRM1882C1H6R9DA01#
			7.0pF	±0.05pF	GRM1882C1H7R0WA01#
				±0.1pF	GRM1882C1H7R0BA01#
				±0.25pF	GRM1882C1H7R0CA01#
				±0.5pF	GRM1882C1H7R0DA01#
			7.1pF	±0.05pF	GRM1882C1H7R1WA01#
			·	±0.1pF	GRM1882C1H7R1BA01#
				±0.25pF	GRM1882C1H7R1CA01#
				±0.5pF	GRM1882C1H7R1DA01#
			7.2pF	±0.05pF	GRM1882C1H7R2WA01#
				±0.1pF	GRM1882C1H7R2BA01#
				±0.25pF	GRM1882C1H7R2CA01#
				±0.5pF	GRM1882C1H7R2DA01#
			7.3pF	±0.05pF	GRM1882C1H7R3WA01#
				±0.1pF	GRM1882C1H7R3BA01#
				±0.25pF	GRM1882C1H7R3CA01#
				±0.5pF	GRM1882C1H7R3DA01#
			7.4pF	±0.05pF	GRM1882C1H7R4WA01#
			.برا	±0.1pF	GRM1882C1H7R4BA01#
				±0.1pi	GRM1882C1H7R4CA01#
				±0.25pf	GRM1882C1H7R4DA01#
			7.5pF		GRM1882C1H7R5WA01#
	1	1	r.Jpr	±0.05pF	G1 11V1 10020 1117 F13 VV AU 1#
				±0.1pF	GRM1882C1H7R5BA01#

0.9mm	T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number	
#0.1pF GRM1882C1H7R6BA01# #0.25pF GRM1882C1H7R7WA01# #0.5pF GRM1882C1H7R7WA01# #0.5pF GRM1882C1H7R7DA01# #0.5pF GRM1882C1H7R7DA01# #0.5pF GRM1882C1H7R7DA01# #0.5pF GRM1882C1H7R7DA01# #0.5pF GRM1882C1H7R7DA01# #0.5pF GRM1882C1H7R8WA01# #0.5pF GRM1882C1H7R8WA01# #0.5pF GRM1882C1H7R8DA01# #0.5pF GRM1882C1H7R8DA01# #0.5pF GRM1882C1H7R9BA01# #0.5pF GRM1882C1H7R9DA01# #0.5pF GRM1882C1H7R9DA01# #0.5pF GRM1882C1H7R9DA01# #0.5pF GRM1882C1H7R9DA01# #0.5pF GRM1882C1H7R9DA01# #0.5pF GRM1882C1H8R0WA01# #0.5pF GRM1882C1H8R0WA01# #0.5pF GRM1882C1H8R0DA01# #0.5pF GRM1882C1H8R0DA01# #0.5pF GRM1882C1H8R0DA01# #0.5pF GRM1882C1H8R1DA01# #0.5pF GRM1882C1H8R1DA01# #0.5pF GRM1882C1H8R1DA01# #0.5pF GRM1882C1H8R1DA01# #0.5pF GRM1882C1H8R2DA01# #0.5pF GRM1882C1H8R2DA01# #0.5pF GRM1882C1H8R3BA01# #0.5pF GRM1882C1H8R3BA01# #0.5pF GRM1882C1HBR3BA01# #0.5pF GRM1882C1HBRSBA01#	0.9mm	50Vdc	СН	7.5pF	±0.5pF	GRM1882C1H7R5DA01#	
#0.25pF GRM1882C1H7R6CA01# #0.5pF GRM1882C1H7R7WA01# #0.1pF GRM1882C1H7R7BA01# #0.25pF GRM1882C1H7R7DA01# #0.25pF GRM1882C1H7R7DA01# #0.5pF GRM1882C1H7R8WA01# #0.5pF GRM1882C1H7R8WA01# #0.5pF GRM1882C1H7R8BA01# #0.5pF GRM1882C1H7R8DA01# #0.5pF GRM1882C1H7R8DA01# #0.5pF GRM1882C1H7R8DA01# #0.5pF GRM1882C1H7R8DA01# #0.5pF GRM1882C1H7R9DA01# #0.5pF GRM1882C1H7R9DA01# #0.5pF GRM1882C1H7R9DA01# #0.5pF GRM1882C1H7R9DA01# #0.5pF GRM1882C1H8R0WA01# #0.5pF GRM1882C1H8R0WA01# #0.5pF GRM1882C1H8R0WA01# #0.5pF GRM1882C1H8R0WA01# #0.5pF GRM1882C1H8R0WA01# #0.5pF GRM1882C1H8R1DA01# #0.5pF GRM1882C1H8R1DA01# #0.5pF GRM1882C1H8R1DA01# #0.5pF GRM1882C1H8R1DA01# #0.5pF GRM1882C1H8R1DA01# #0.5pF GRM1882C1H8R1DA01# #0.5pF GRM1882C1H8R2WA01# #0.5pF GRM1882C1H8R2WA01# #0.5pF GRM1882C1H8R3WA01# #0.5pF GRM1882C1H8R4WA01# #0.5pF GRM1882C1H8R5DA01# #0.5pF GRM1882C1H8R5DA01# #0.5pF GRM1882C1H8R5DA01# #0.5pF GRM1882C1H8R6WA01# #0.5pF GRM1882C1H8R7CA01# #0.5pF GRM1882C1H8R7DA01# #0.5pF GRM1882C1H8R7DA01# #0.5pF GRM1882C1H8R8DA01#				7.6pF	±0.05pF	GRM1882C1H7R6WA01#	
#0.5pF GRM1882C1H7R7BA01# #0.1pF GRM1882C1H7R7BA01# #0.5pF GRM1882C1H7R7DA01# #0.5pF GRM1882C1H7R7DA01# #0.5pF GRM1882C1H7R7DA01# #0.1pF GRM1882C1H7R8BA01# #0.1pF GRM1882C1H7R8BA01# #0.5pF GRM1882C1H7R8BA01# #0.5pF GRM1882C1H7R8DA01# #0.1pF GRM1882C1H7R9WA01# #0.1pF GRM1882C1H7R9WA01# #0.1pF GRM1882C1H7R9BA01# #0.1pF GRM1882C1H7R9BA01# #0.1pF GRM1882C1H7R9BA01# #0.5pF GRM1882C1H7R9BA01# #0.5pF GRM1882C1H7R9DA01# #0.5pF GRM1882C1H8R0WA01# #0.1pF GRM1882C1H8R0WA01# #0.5pF GRM1882C1H8R0DA01# #0.5pF GRM1882C1H8R0DA01# #0.5pF GRM1882C1H8R1WA01# #0.5pF GRM1882C1H8R1WA01# #0.5pF GRM1882C1H8R1DA01# #0.5pF GRM1882C1H8R1DA01# #0.5pF GRM1882C1H8R1DA01# #0.5pF GRM1882C1H8R2WA01# #0.5pF GRM1882C1H8R2WA01# #0.5pF GRM1882C1H8R2WA01# #0.5pF GRM1882C1H8R2WA01# #0.5pF GRM1882C1H8R2DA01# #0.5pF GRM1882C1H8R3BA01# #0.5pF GRM1882C1H8R3BA01# #0.5pF GRM1882C1H8R3BA01# #0.5pF GRM1882C1H8R3BA01# #0.5pF GRM1882C1H8R3BA01# #0.5pF GRM1882C1H8R4WA01# #0.5pF GRM1882C1H8R4WA01# #0.5pF GRM1882C1H8R4WA01# #0.5pF GRM1882C1H8R4WA01# #0.5pF GRM1882C1H8R4WA01# #0.5pF GRM1882C1H8R4WA01# #0.5pF GRM1882C1H8R5WA01# #0.5pF GRM1882C1H8R5WA01# #0.5pF GRM1882C1H8R5WA01# #0.5pF GRM1882C1H8R5WA01# #0.5pF GRM1882C1H8R5DA01#					±0.1pF	GRM1882C1H7R6BA01#	
7.7pF ±0.05pF GRM1882C1H7R7WA01# ±0.1pF GRM1882C1H7R7DA01# ±0.25pF GRM1882C1H7R7DA01# ±0.5pF GRM1882C1H7R8WA01# ±0.05pF GRM1882C1H7R8DA01# ±0.5pF GRM1882C1H7R8DA01# ±0.5pF GRM1882C1H7R8DA01# ±0.5pF GRM1882C1H7R9BA01# ±0.5pF GRM1882C1H7R9BA01# ±0.5pF GRM1882C1H7R9DA01# ±0.5pF GRM1882C1H7R9DA01# ±0.5pF GRM1882C1H8R0DA01# ±0.5pF GRM1882C1H8R0DA01# ±0.5pF GRM1882C1H8R0DA01# ±0.5pF GRM1882C1H8R0DA01# ±0.5pF GRM1882C1H8R0DA01# ±0.5pF GRM1882C1H8R0DA01# ±0.5pF GRM1882C1H8RDA01# ±0.5pF GRM1882C1H8RDA01# ±0.5pF GRM1882C1H8R1DA01# ±0.5pF GRM1882C1H8R1DA01# ±0.5pF GRM1882C1H8R1DA01# ±0.5pF GRM1882C1H8R2DA01# ±0.5pF GRM1882C1H8R2DA01# ±0.5pF GRM1882C1H8R2DA01# ±0.5pF GRM1882C1H8R2DA01# ±0.5pF GRM1882C1H8R3DA01# ±0.5pF GRM1882C1H8R3DA01# ±0.5pF GRM1882C1H8R3DA01# ±0.5pF GRM1882C1H8R3DA01# ±0.5pF GRM1882C1H8R3DA01# ±0.5pF GRM1882C1H8R4DA01# ±0.5pF GRM1882C1H8R5DA01# ±0.5pF GRM1					±0.25pF	GRM1882C1H7R6CA01#	
#0.1pF GRM1882C1H7R7BA01# #0.25pF GRM1882C1H7R7DA01# #0.5pF GRM1882C1H7R8BA01# #0.1pF GRM1882C1H7R8BA01# #0.25pF GRM1882C1H7R8BA01# #0.25pF GRM1882C1H7R8BA01# #0.25pF GRM1882C1H7R9BA01# #0.25pF GRM1882C1H7R9DA01# #0.25pF GRM1882C1H7R9DA01# #0.5pF GRM1882C1H7R9DA01# #0.5pF GRM1882C1H7R9DA01# #0.5pF GRM1882C1H8R0WA01# #0.5pF GRM1882C1H8R0WA01# #0.5pF GRM1882C1H8R0WA01# #0.5pF GRM1882C1H8R0WA01# #0.5pF GRM1882C1H8R0DA01# #0.5pF GRM1882C1H8R0DA01# #0.5pF GRM1882C1H8R0DA01# #0.5pF GRM1882C1H8R1WA01# #0.5pF GRM1882C1H8R1DA01# #0.5pF GRM1882C1H8R1DA01# #0.5pF GRM1882C1H8R1DA01# #0.5pF GRM1882C1H8R2WA01# #0.5pF GRM1882C1H8R2WA01# #0.5pF GRM1882C1H8R2DA01# #0.5pF GRM1882C1H8R3WA01# #0.5pF GRM1882C1H8R3WA01# #0.5pF GRM1882C1H8R3WA01# #0.5pF GRM1882C1H8R3CA01# #0.5pF GRM1882C1H8R3CA01# #0.5pF GRM1882C1H8R3CA01# #0.5pF GRM1882C1H8R3CA01# #0.5pF GRM1882C1H8R3CA01# #0.5pF GRM1882C1H8R4WA01# #0.5pF GRM1882C1H8R4WA01# #0.5pF GRM1882C1H8R4WA01# #0.5pF GRM1882C1H8R4WA01# #0.5pF GRM1882C1H8R5CA01# #0.5pF GRM18					±0.5pF	GRM1882C1H7R6DA01#	
#0.5pF GRM1882C1H7R7CA01# #0.5pF GRM1882C1H7R8WA01# #0.1pF GRM1882C1H7R8CA01# #0.5pF GRM1882C1H7R8CA01# #0.5pF GRM1882C1H7R8CA01# #0.5pF GRM1882C1H7R9DA01# #0.1pF GRM1882C1H7R9DA01# #0.25pF GRM1882C1H7R9DA01# #0.1pF GRM1882C1H7R9DA01# #0.5pF GRM1882C1H7R9DA01# #0.5pF GRM1882C1H7R9DA01# #0.1pF GRM1882C1H8R0WA01# #0.1pF GRM1882C1H8R0WA01# #0.1pF GRM1882C1H8R0WA01# #0.1pF GRM1882C1H8R0WA01# #0.1pF GRM1882C1H8R0DA01# #0.5pF GRM1882C1H8R1WA01# #0.5pF GRM1882C1H8R1DA01# #0.5pF GRM1882C1H8R1DA01# #0.5pF GRM1882C1H8R1DA01# #0.5pF GRM1882C1H8R1DA01# #0.5pF GRM1882C1H8R2WA01# #0.5pF GRM1882C1H8R2WA01# #0.5pF GRM1882C1H8R3WA01# #0.5pF GRM1882C1H8R3WA01# #0.5pF GRM1882C1H8R3WA01# #0.5pF GRM1882C1H8R3WA01# #0.5pF GRM1882C1H8R3WA01# #0.5pF GRM1882C1H8R3DA01# #0.5pF GRM1882C1H8R3DA01# #0.5pF GRM1882C1H8R3DA01# #0.5pF GRM1882C1H8R4WA01# #0.5pF GRM1882C1H8R4WA01# #0.5pF GRM1882C1H8R4WA01# #0.5pF GRM1882C1H8R4DA01# #0.5pF GRM1882C1H8R5DA01# #0.5pF GRM1882C1H8R5DA01# #0.5pF GRM1882C1H8R5DA01# #0.5pF GRM1882C1H8R5DA01# #0.5pF GRM1882C1H8R6CA01# #0.5pF GRM1882C1H8R7DA01# #0.5pF GRM1882C1H8R8DA01# #0.5pF GRM1882C1H8R8DA01# #0.5pF GRM1882C1H8R8DA01# #0.5pF GRM1882C1H8R8DA01# #0.5pF GRM1882C1H8R8DA01#				7.7pF	±0.05pF	GRM1882C1H7R7WA01#	
#0.5pF GRM1882C1H7R7DA01# #0.1pF GRM1882C1H7R8DA01# #0.25pF GRM1882C1H7R8DA01# #0.5pF GRM1882C1H7R8DA01# #0.5pF GRM1882C1H7R8DA01# #0.1pF GRM1882C1H7R9DA01# #0.1pF GRM1882C1H7R9DA01# #0.5pF GRM1882C1H7R9DA01# #0.5pF GRM1882C1H7R9DA01# #0.5pF GRM1882C1H8RDA01# #0.5pF GRM1882C1H8R0WA01# #0.1pF GRM1882C1H8R0WA01# #0.1pF GRM1882C1H8R0DA01# #0.5pF GRM1882C1H8RNDA01# #0.5pF GRM1882C1H8RNDA01# #0.5pF GRM1882C1H8R1DA01# #0.5pF GRM1882C1H8R1DA01# #0.5pF GRM1882C1H8R1DA01# #0.5pF GRM1882C1H8R1DA01# #0.5pF GRM1882C1H8R2WA01# #0.5pF GRM1882C1H8R2WA01# #0.5pF GRM1882C1H8R2WA01# #0.5pF GRM1882C1H8R2WA01# #0.5pF GRM1882C1H8R3WA01# #0.5pF GRM1882C1H8R3WA01# #0.5pF GRM1882C1H8R3WA01# #0.5pF GRM1882C1H8R3WA01# #0.5pF GRM1882C1H8R3WA01# #0.5pF GRM1882C1H8R3WA01# #0.5pF GRM1882C1H8R4WA01# #0.5pF GRM1882C1H8R4WA01# #0.5pF GRM1882C1H8R4WA01# #0.5pF GRM1882C1H8R4WA01# #0.5pF GRM1882C1H8R4WA01# #0.5pF GRM1882C1H8R4WA01# #0.5pF GRM1882C1H8R5WA01# #0.5pF GRM1882C1H8R6WA01# #0.5pF GRM1882C1H8R7WA01# #0.5pF GRM1882C1H8R7WA01# #0.5pF GRM1882C1H8R7WA01# #0.5pF GRM1882C1H8R7WA01# #0.5pF GRM1882C1H8R7WA01# #0.5pF GRM1882C1H8R7WA01# #0.5pF GRM1882C1H8R8A001# #0.5pF GRM1882C1H8R8A001# #0.5pF GRM1882C1H8R8A001# #0.5pF GRM1882C1H8R8A001# #0.5pF GRM1882C1H8R8BA01# #0.5pF GRM1882C1H8R8BA01# #0.5pF GRM1882C1H8R8BA01# #0.5pF GRM1882C1H8R8BA01#					±0.1pF	GRM1882C1H7R7BA01#	
7.8pF					±0.25pF	GRM1882C1H7R7CA01#	
#0.1pF GRM1882C1H7R8DA01# #0.5pF GRM1882C1H7R9CA01# #0.5pF GRM1882C1H7R9DA01# #0.1pF GRM1882C1H7R9DA01# #0.25pF GRM1882C1H7R9DA01# #0.5pF GRM1882C1H7R9DA01# #0.5pF GRM1882C1H7R9DA01# #0.5pF GRM1882C1H7R9DA01# #0.5pF GRM1882C1H8R0BA01# #0.5pF GRM1882C1H8R0BA01# #0.5pF GRM1882C1H8R0DA01# #0.5pF GRM1882C1H8R0DA01# #0.5pF GRM1882C1H8R1DA01# #0.5pF GRM1882C1H8R1DA01# #0.5pF GRM1882C1H8R1DA01# #0.5pF GRM1882C1H8R2BA01# #0.5pF GRM1882C1H8R2BA01# #0.5pF GRM1882C1H8R2BA01# #0.5pF GRM1882C1H8R2BA01# #0.5pF GRM1882C1H8R2BA01# #0.5pF GRM1882C1H8R2DA01# #0.5pF GRM1882C1H8R3BA01# #0.5pF GRM1882C1H8R3BA01# #0.5pF GRM1882C1H8R3DA01# #0.5pF GRM1882C1H8R3DA01# #0.5pF GRM1882C1H8R3DA01# #0.5pF GRM1882C1H8R3DA01# #0.5pF GRM1882C1H8R4DA01# #0.5pF GRM1882C1H8R4DA01# #0.5pF GRM1882C1H8R4DA01# #0.5pF GRM1882C1H8R4DA01# #0.5pF GRM1882C1H8R4DA01# #0.5pF GRM1882C1H8R4DA01# #0.5pF GRM1882C1H8R5WA01# #0.5pF GRM1882C1H8R6WA01#					±0.5pF	GRM1882C1H7R7DA01#	
#0.25pF GRM1882C1H7R8CA01# #0.5pF GRM1882C1H7R9DA01# #0.1pF GRM1882C1H7R9DA01# #0.25pF GRM1882C1H7R9CA01# #0.5pF GRM1882C1H7R9CA01# #0.5pF GRM1882C1H8R0DA01# #0.1pF GRM1882C1H8R0DA01# #0.25pF GRM1882C1H8R0DA01# #0.5pF GRM1882C1H8R0DA01# #0.5pF GRM1882C1H8R0DA01# #0.5pF GRM1882C1H8R0DA01# #0.5pF GRM1882C1H8R1WA01# #0.5pF GRM1882C1H8R1WA01# #0.5pF GRM1882C1H8R1DA01# #0.5pF GRM1882C1H8R1DA01# #0.5pF GRM1882C1H8R1DA01# #0.5pF GRM1882C1H8R2WA01# #0.5pF GRM1882C1H8R2WA01# #0.5pF GRM1882C1H8R2WA01# #0.5pF GRM1882C1H8R2WA01# #0.5pF GRM1882C1H8R3DA01# #0.5pF GRM1882C1H8R3DA01# #0.5pF GRM1882C1H8R3DA01# #0.5pF GRM1882C1H8R3DA01# #0.5pF GRM1882C1H8R3DA01# #0.5pF GRM1882C1H8R3DA01# #0.5pF GRM1882C1H8R4WA01# #0.5pF GRM1882C1H8R4DA01# #0.5pF GRM1882C1H8R4DA01# #0.5pF GRM1882C1H8R4DA01# #0.5pF GRM1882C1H8R5DA01# #0.5pF GRM1882C1H8R5DA01# #0.5pF GRM1882C1H8R5DA01# #0.5pF GRM1882C1H8R6DA01#				7.8pF	±0.05pF	GRM1882C1H7R8WA01#	
#0.5pF GRM1882C1H7R9DA01# #0.1pF GRM1882C1H7R9DA01# #0.25pF GRM1882C1H7R9DA01# #0.5pF GRM1882C1H7R9DA01# #0.5pF GRM1882C1H8R0WA01# #0.5pF GRM1882C1H8R0WA01# #0.5pF GRM1882C1H8R0DA01# #0.5pF GRM1882C1H8R0DA01# #0.5pF GRM1882C1H8R0DA01# #0.5pF GRM1882C1H8R1WA01# #0.5pF GRM1882C1H8R1BA01# #0.5pF GRM1882C1H8R1DA01# #0.5pF GRM1882C1H8R1DA01# #0.5pF GRM1882C1H8R1DA01# #0.5pF GRM1882C1H8R1DA01# #0.5pF GRM1882C1H8R2WA01# #0.5pF GRM1882C1H8R2WA01# #0.5pF GRM1882C1H8R2WA01# #0.5pF GRM1882C1H8R3WA01# #0.5pF GRM1882C1H8R4WA01# #0.5pF GRM1882C1H8R4WA01# #0.5pF GRM1882C1H8R4WA01# #0.5pF GRM1882C1H8R4WA01# #0.5pF GRM1882C1H8R5WA01# #0.5pF GRM1882C1H8R5WA01# #0.5pF GRM1882C1H8R5WA01# #0.5pF GRM1882C1H8R5WA01# #0.5pF GRM1882C1H8R5WA01# #0.5pF GRM1882C1H8R5WA01# #0.5pF GRM1882C1H8R6DA01# #0.5pF GRM1882C1H8R8WA01# #0.5pF GRM1882C1H8R8WA01# #0.5pF GRM1882C1H8R8WA01# #0.5pF GRM1882C1H8R8WA01# #0.5pF GRM1882C1H8R8WA01# #0.5pF GRM1882C1H8R8WA01# #0.5pF GRM1882C1H					±0.1pF	GRM1882C1H7R8BA01#	
7.9pF					±0.25pF	GRM1882C1H7R8CA01#	
#0.1pF					±0.5pF	GRM1882C1H7R8DA01#	
#0.5pF GRM1882C1H7R9CA01# #0.5pF GRM1882C1H8R0WA01# #0.1pF GRM1882C1H8R0WA01# #0.25pF GRM1882C1H8R0WA01# #0.25pF GRM1882C1H8R0CA01# #0.5pF GRM1882C1H8R0DA01# #0.5pF GRM1882C1H8R0DA01# #0.5pF GRM1882C1H8R1WA01# #0.5pF GRM1882C1H8R1WA01# #0.5pF GRM1882C1H8R1WA01# #0.5pF GRM1882C1H8R2WA01# #0.5pF GRM1882C1H8R3WA01# #0.5pF GRM1882C1H8R4WA01# #0.5pF GRM1882C1H8R4WA01# #0.5pF GRM1882C1H8R4WA01# #0.5pF GRM1882C1H8R4WA01# #0.5pF GRM1882C1H8R5WA01# #0.5pF GRM1882C1H8R5WA01# #0.5pF GRM1882C1H8R5WA01# #0.5pF GRM1882C1H8R6WA01# #0.5pF GRM1882C1H8R7WA01# #0.5pF GRM1882C1H8R7WA01# #0.5pF GRM1882C1H8R8WA01# #0.5pF GRM1882C1H8R8BA01# #0.5pF GRM1882C1H8R8BA01# #0.5pF GRM1882C1				7.9pF	±0.05pF	GRM1882C1H7R9WA01#	
#0.5pF GRM1882C1H8R0WA01# #0.1pF GRM1882C1H8R0WA01# #0.25pF GRM1882C1H8R0WA01# #0.25pF GRM1882C1H8R0DA01# #0.5pF GRM1882C1H8R0DA01# #0.5pF GRM1882C1H8R1WA01# #0.25pF GRM1882C1H8R1WA01# #0.5pF GRM1882C1H8R1WA01# #0.5pF GRM1882C1H8R1WA01# #0.5pF GRM1882C1H8R2WA01# #0.5pF GRM1882C1H8R2WA01# #0.5pF GRM1882C1H8R3WA01# #0.5pF GRM1882C1H8R4WA01# #0.5pF GRM1882C1H8R4WA01# #0.5pF GRM1882C1H8R4WA01# #0.5pF GRM1882C1H8R4WA01# #0.5pF GRM1882C1H8R5WA01# #0.5pF GRM1882C1H8R5WA01# #0.5pF GRM1882C1H8R5WA01# #0.5pF GRM1882C1H8R6WA01# #0.5pF GRM1882C1H8R7WA01# #0.5pF GRM1882C1H8R7WA01# #0.5pF GRM1882C1H8R7WA01# #0.5pF GRM1882C1H8R7WA01# #0.5pF GRM1882C1H8R7WA01# #0.5pF GRM1882C1H8R8WA01# #0.5pF GRM1882C1H8R8BA01#					±0.1pF	GRM1882C1H7R9BA01#	
8.0pF ±0.05pF GRM1882C1H8R0WA01# ±0.1pF GRM1882C1H8R0BA01# ±0.25pF GRM1882C1H8R0CA01# ±0.5pF GRM1882C1H8R1WA01# ±0.5pF GRM1882C1H8R1WA01# ±0.25pF GRM1882C1H8R1BA01# ±0.25pF GRM1882C1H8R1DA01# ±0.5pF GRM1882C1H8R2WA01# ±0.5pF GRM1882C1H8R2WA01# ±0.25pF GRM1882C1H8R2WA01# ±0.25pF GRM1882C1H8R2WA01# ±0.5pF GRM1882C1H8R3WA01# ±0.25pF GRM1882C1H8R3WA01# ±0.25pF GRM1882C1H8R3WA01# ±0.25pF GRM1882C1H8R3WA01# ±0.5pF GRM1882C1H8R3WA01# ±0.5pF GRM1882C1H8R3WA01# ±0.5pF GRM1882C1H8R4WA01# ±0.5pF GRM1882C1H8R4WA01# ±0.5pF GRM1882C1H8R4WA01# ±0.5pF GRM1882C1H8R5WA01# ±0.5pF GRM1882C1H8R5WA01# ±0.5pF GRM1882C1H8R5WA01# ±0.5pF GRM1882C1H8R5WA01# ±0.5pF GRM1882C1H8R5WA01# ±0.5pF GRM1882C1H8R6WA01# ±0.5pF GRM1882C1H8R6WA01# ±0.5pF GRM1882C1H8R6WA01# ±0.5pF GRM1882C1H8R6WA01# ±0.5pF GRM1882C1H8R6WA01# ±0.5pF GRM1882C1H8R6WA01# ±0.5pF GRM1882C1H8R7WA01# ±0.5pF GRM1882C1H8R7WA01# ±0.5pF GRM1882C1H8R7WA01# ±0.5pF GRM1882C1H8R7WA01# ±0.5pF GRM1882C1H8R7WA01# ±0.5pF GRM1882C1H8R8WA01#					±0.25pF	GRM1882C1H7R9CA01#	
### ### ##############################					±0.5pF	GRM1882C1H7R9DA01#	
#0.25pF GRM1882C1H8R0CA01# #0.5pF GRM1882C1H8R0DA01# #0.1pF GRM1882C1H8R1BA01# #0.25pF GRM1882C1H8R1BA01# #0.25pF GRM1882C1H8R1BA01# #0.25pF GRM1882C1H8R2WA01# #0.5pF GRM1882C1H8R2WA01# #0.5pF GRM1882C1H8R2WA01# #0.5pF GRM1882C1H8R2WA01# #0.5pF GRM1882C1H8R3WA01# #0.5pF GRM1882C1H8R4WA01# #0.5pF GRM1882C1H8R4WA01# #0.5pF GRM1882C1H8R4WA01# #0.5pF GRM1882C1H8R5WA01# #0.5pF GRM1882C1H8R5WA01# #0.5pF GRM1882C1H8R5WA01# #0.5pF GRM1882C1H8R5WA01# #0.5pF GRM1882C1H8R6WA01# #0.5pF GRM1882C1H8R6WA01# #0.5pF GRM1882C1H8R6WA01# #0.5pF GRM1882C1H8R6WA01# #0.5pF GRM1882C1H8R6WA01# #0.5pF GRM1882C1H8R6WA01# #0.5pF GRM1882C1H8R7WA01# #0.5pF GRM1882C1H8R7WA01# #0.5pF GRM1882C1H8R7WA01# #0.5pF GRM1882C1H8R7WA01# #0.5pF GRM1882C1H8R8WA01# #0.5pF GRM1882C1H8R8DA01#				8.0pF	±0.05pF	GRM1882C1H8R0WA01#	
### ### ##############################					±0.1pF	GRM1882C1H8R0BA01#	
8.1pF					±0.25pF	GRM1882C1H8R0CA01#	
### ### ### ### ### ### ### ### ### ##					±0.5pF		
### ### ##############################				8.1pF	±0.05pF	GRM1882C1H8R1WA01#	
### ### ### ### ### ### ### ### ### ##					-		
8.2pF ±0.05pF GRM1882C1H8R2WA01# ±0.1pF GRM1882C1H8R2BA01# ±0.25pF GRM1882C1H8R2CA01# ±0.5pF GRM1882C1H8R3WA01# ±0.5pF GRM1882C1H8R3WA01# ±0.1pF GRM1882C1H8R3BA01# ±0.25pF GRM1882C1H8R3DA01# ±0.5pF GRM1882C1H8R3DA01# ±0.1pF GRM1882C1H8R4WA01# ±0.5pF GRM1882C1H8R4CA01# ±0.5pF GRM1882C1H8R4CA01# ±0.5pF GRM1882C1H8R4DA01# ±0.5pF GRM1882C1H8R5WA01# ±0.1pF GRM1882C1H8R5WA01# ±0.1pF GRM1882C1H8R5DA01# ±0.5pF GRM1882C1H8R5DA01# ±0.5pF GRM1882C1H8R5DA01# ±0.5pF GRM1882C1H8R6WA01# ±0.5pF GRM1882C1H8R6WA01# ±0.5pF GRM1882C1H8R6DA01# ±0.5pF GRM1882C1H8R6DA01# ±0.5pF GRM1882C1H8R6DA01# ±0.5pF GRM1882C1H8R6DA01# ±0.5pF GRM1882C1H8R6DA01# ±0.5pF GRM1882C1H8R7WA01# ±0.5pF GRM1882C1H8R7WA01# ±0.5pF GRM1882C1H8R7DA01# ±0.5pF GRM1882C1H8R7DA01# ±0.5pF GRM1882C1H8R7DA01# ±0.5pF GRM1882C1H8R8WA01#					· ·		
#0.1pF GRM1882C1H8R2BA01# #0.25pF GRM1882C1H8R2CA01# #0.5pF GRM1882C1H8R3WA01# #0.1pF GRM1882C1H8R3WA01# #0.25pF GRM1882C1H8R3BA01# #0.25pF GRM1882C1H8R3BA01# #0.5pF GRM1882C1H8R3DA01# #0.5pF GRM1882C1H8R3DA01# #0.1pF GRM1882C1H8R4WA01# #0.25pF GRM1882C1H8R4WA01# #0.25pF GRM1882C1H8R4DA01# #0.5pF GRM1882C1H8R4DA01# #0.5pF GRM1882C1H8R5WA01# #0.1pF GRM1882C1H8R5WA01# #0.5pF GRM1882C1H8R5DA01# #0.5pF GRM1882C1H8R5DA01# #0.5pF GRM1882C1H8R6WA01# #0.5pF GRM1882C1H8R6WA01# #0.5pF GRM1882C1H8R6WA01# #0.5pF GRM1882C1H8R6DA01# #0.5pF GRM1882C1H8R6DA01# #0.5pF GRM1882C1H8R6DA01# #0.5pF GRM1882C1H8R6DA01# #0.5pF GRM1882C1H8R7WA01# #0.5pF GRM1882C1H8R7WA01# #0.5pF GRM1882C1H8R7DA01# #0.5pF GRM1882C1H8R7DA01# #0.5pF GRM1882C1H8R7DA01# #0.5pF GRM1882C1H8R8WA01# #0.5pF GRM1882C1H8R8WA01# #0.5pF GRM1882C1H8R8WA01# #0.5pF GRM1882C1H8R8BA01#							
### ### ##############################				8.2p⊦	· ·		
### ### ### ### ### ### ### ### ### ##							
8.3pF ±0.05pF GRM1882C1H8R3WA01# ±0.1pF GRM1882C1H8R3BA01# ±0.25pF GRM1882C1H8R3DA01# ±0.5pF GRM1882C1H8R4WA01# ±0.25pF GRM1882C1H8R4WA01# ±0.25pF GRM1882C1H8R4DA01# ±0.5pF GRM1882C1H8R4DA01# ±0.5pF GRM1882C1H8R5BA01# ±0.05pF GRM1882C1H8R5BA01# ±0.05pF GRM1882C1H8R5DA01# ±0.05pF GRM1882C1H8R5DA01# ±0.05pF GRM1882C1H8R6DA01# ±0.05pF GRM1882C1H8R6DA01# ±0.05pF GRM1882C1H8R6DA01# ±0.05pF GRM1882C1H8R6DA01# ±0.05pF GRM1882C1H8R6DA01# ±0.05pF GRM1882C1H8R6DA01# ±0.05pF GRM1882C1H8R7WA01# ±0.05pF GRM1882C1H8R7WA01# ±0.05pF GRM1882C1H8R7WA01# ±0.05pF GRM1882C1H8R7CA01# ±0.05pF GRM1882C1H8R7DA01# ±0.05pF GRM1882C1H8R7DA01# ±0.05pF GRM1882C1H8R8DA01# ±0.05pF GRM1882C1H8R8WA01# ±0.05pF GRM1882C1H8R8BA01# ±0.05pF GRM1882C1H8R8BA01# ±0.05pF GRM1882C1H8R8BA01# ±0.05pF GRM1882C1H8R8BA01#							
### ### ##############################				9 2nE	-		
### ### ##############################				0.5pi			
### ### ### ### ### ### ### ### ### ##							
8.4pF					· ·		
### ### ##############################				8 4pF			
#0.25pF GRM1882C1H8R4CA01# #0.5pF GRM1882C1H8R4DA01# #0.5pF GRM1882C1H8R5WA01# #0.1pF GRM1882C1H8R5BA01# #0.25pF GRM1882C1H8R5CA01# #0.5pF GRM1882C1H8R5CA01# #0.5pF GRM1882C1H8R6WA01# #0.1pF GRM1882C1H8R6BA01# #0.25pF GRM1882C1H8R6CA01# #0.5pF GRM1882C1H8R6CA01# #0.5pF GRM1882C1H8R7WA01# #0.5pF GRM1882C1H8R7WA01# #0.1pF GRM1882C1H8R7WA01# #0.25pF GRM1882C1H8R7CA01# #0.5pF GRM1882C1H8R7CA01# #0.5pF GRM1882C1H8R7DA01# #0.5pF GRM1882C1H8R8WA01# #0.5pF GRM1882C1H8R8WA01# #0.5pF GRM1882C1H8R8WA01# #0.5pF GRM1882C1H8R8WA01# #0.5pF GRM1882C1H8R8BA01# #0.5pF GRM1882C1H8R8BA01# #0.5pF GRM1882C1H8R8BA01#				0.101			
#0.5pF GRM1882C1H8R4DA01# #0.05pF GRM1882C1H8R5WA01# #0.1pF GRM1882C1H8R5BA01# #0.25pF GRM1882C1H8R5CA01# #0.5pF GRM1882C1H8R6WA01# #0.1pF GRM1882C1H8R6WA01# #0.1pF GRM1882C1H8R6BA01# #0.25pF GRM1882C1H8R6CA01# #0.5pF GRM1882C1H8R6DA01# #0.5pF GRM1882C1H8R7WA01# #0.1pF GRM1882C1H8R7WA01# #0.1pF GRM1882C1H8R7CA01# #0.5pF GRM1882C1H8R7CA01# #0.5pF GRM1882C1H8R7DA01# #0.5pF GRM1882C1H8R8WA01# #0.5pF GRM1882C1H8R8WA01# #0.5pF GRM1882C1H8R8WA01# #0.5pF GRM1882C1H8R8WA01# #0.5pF GRM1882C1H8R8BA01# #0.5pF GRM1882C1H8R8BA01# #0.5pF GRM1882C1H8R8BA01#							
8.5pF ±0.05pF GRM1882C1H8R5WA01# ±0.1pF GRM1882C1H8R5BA01# ±0.25pF GRM1882C1H8R5DA01# ±0.5pF GRM1882C1H8R5DA01# 8.6pF ±0.05pF GRM1882C1H8R6WA01# ±0.1pF GRM1882C1H8R6BA01# ±0.25pF GRM1882C1H8R6DA01# ±0.5pF GRM1882C1H8R6DA01# ±0.5pF GRM1882C1H8R7WA01# ±0.1pF GRM1882C1H8R7WA01# ±0.1pF GRM1882C1H8R7CA01# ±0.25pF GRM1882C1H8R7DA01# ±0.5pF GRM1882C1H8R8WA01# ±0.5pF GRM1882C1H8R8WA01# ±0.1pF GRM1882C1H8R8WA01# ±0.1pF GRM1882C1H8R8WA01# ±0.25pF GRM1882C1H8R8BA01# ±0.25pF GRM1882C1H8R8BA01#					· ·		
### ### ##############################				8.5pF			
# ±0.25pF GRM1882C1H8R5CA01# ±0.5pF GRM1882C1H8R5DA01# #0.5pF GRM1882C1H8R6WA01# #0.1pF GRM1882C1H8R6BA01# #0.5pF GRM1882C1H8R6CA01# #0.5pF GRM1882C1H8R6DA01# #0.5pF GRM1882C1H8R7WA01# #0.1pF GRM1882C1H8R7BA01# #0.25pF GRM1882C1H8R7CA01# #0.5pF GRM1882C1H8R7DA01# #0.5pF GRM1882C1H8R7WA01# #0.5pF GRM1882C1H8R8WA01# #0.1pF GRM1882C1H8R8WA01# #0.25pF GRM1882C1H8R8BA01# #0.25pF GRM1882C1H8R8CA01# #0.5pF GRM1882C1H8R8DA01# #0.5pF			1-				
8.6pF ±0.05pF GRM1882C1H8R6WA01# ±0.1pF GRM1882C1H8R6BA01# ±0.25pF GRM1882C1H8R6CA01# ±0.5pF GRM1882C1H8R6DA01# ±0.05pF GRM1882C1H8R7WA01# ±0.1pF GRM1882C1H8R7BA01# ±0.25pF GRM1882C1H8R7CA01# ±0.5pF GRM1882C1H8R7DA01# ±0.5pF GRM1882C1H8R8WA01# ±0.1pF GRM1882C1H8R8WA01# ±0.1pF GRM1882C1H8R8BA01# ±0.25pF GRM1882C1H8R8BA01# ±0.25pF GRM1882C1H8R8CA01#						GRM1882C1H8R5CA01#	
8.6pF ±0.05pF GRM1882C1H8R6WA01# ±0.1pF GRM1882C1H8R6BA01# ±0.25pF GRM1882C1H8R6CA01# ±0.5pF GRM1882C1H8R6DA01# ±0.05pF GRM1882C1H8R7WA01# ±0.1pF GRM1882C1H8R7BA01# ±0.25pF GRM1882C1H8R7CA01# ±0.5pF GRM1882C1H8R7DA01# ±0.5pF GRM1882C1H8R8WA01# ±0.1pF GRM1882C1H8R8WA01# ±0.1pF GRM1882C1H8R8BA01# ±0.25pF GRM1882C1H8R8BA01# ±0.5pF GRM1882C1H8R8CA01#					· ·		
±0.1pF GRM1882C1H8R6BA01# ±0.25pF GRM1882C1H8R6CA01# ±0.5pF GRM1882C1H8R6DA01# 8.7pF ±0.05pF GRM1882C1H8R7WA01# ±0.1pF GRM1882C1H8R7BA01# ±0.25pF GRM1882C1H8R7CA01# ±0.5pF GRM1882C1H8R7DA01# ±0.5pF GRM1882C1H8R8WA01# ±0.1pF GRM1882C1H8R8WA01# ±0.25pF GRM1882C1H8R8BA01# ±0.25pF GRM1882C1H8R8BA01# ±0.5pF GRM1882C1H8R8CA01#				8.6pF	-		
±0.25pF GRM1882C1H8R6CA01# ±0.5pF GRM1882C1H8R6DA01# 8.7pF ±0.05pF GRM1882C1H8R7WA01# ±0.1pF GRM1882C1H8R7CA01# ±0.25pF GRM1882C1H8R7CA01# ±0.5pF GRM1882C1H8R7DA01# ±0.5pF GRM1882C1H8R8WA01# ±0.1pF GRM1882C1H8R8WA01# ±0.1pF GRM1882C1H8R8BA01# ±0.25pF GRM1882C1H8R8CA01# ±0.5pF GRM1882C1H8R8CA01#							
### ### ##############################							
8.7pF ±0.05pF GRM1882C1H8R7WA01# ±0.1pF GRM1882C1H8R7BA01# ±0.25pF GRM1882C1H8R7CA01# ±0.5pF GRM1882C1H8R7DA01# 8.8pF ±0.05pF GRM1882C1H8R8WA01# ±0.1pF GRM1882C1H8R8BA01# ±0.25pF GRM1882C1H8R8CA01# ±0.5pF GRM1882C1H8R8DA01#							
±0.25pF GRM1882C1H8R7CA01# ±0.5pF GRM1882C1H8R7DA01# 8.8pF ±0.05pF GRM1882C1H8R8WA01# ±0.1pF GRM1882C1H8R8BA01# ±0.25pF GRM1882C1H8R8CA01# ±0.5pF GRM1882C1H8R8DA01#				8.7pF		GRM1882C1H8R7WA01#	
±0.25pF GRM1882C1H8R7CA01# ±0.5pF GRM1882C1H8R7DA01# 8.8pF ±0.05pF GRM1882C1H8R8WA01# ±0.1pF GRM1882C1H8R8BA01# ±0.25pF GRM1882C1H8R8CA01# ±0.5pF GRM1882C1H8R8DA01#					±0.1pF	GRM1882C1H8R7BA01#	
8.8pF ±0.05pF GRM1882C1H8R8WA01# ±0.1pF GRM1882C1H8R8BA01# ±0.25pF GRM1882C1H8R8CA01# ±0.5pF GRM1882C1H8R8DA01#					±0.25pF	GRM1882C1H8R7CA01#	
±0.1pF					±0.5pF	GRM1882C1H8R7DA01#	
±0.25pF GRM1882C1H8R8CA01# ±0.5pF GRM1882C1H8R8DA01#				8.8pF	±0.05pF	GRM1882C1H8R8WA01#	
±0.5pF GRM1882C1H8R8DA01#					±0.1pF	GRM1882C1H8R8BA01#	
					±0.25pF	GRM1882C1H8R8CA01#	
8.9pF ±0.05pF GRM1882C1H8R9WA01#					±0.5pF	GRM1882C1H8R8DA01#	
				8.9pF	±0.05pF	GRM1882C1H8R9WA01#	

Т max. 0.9mm

T	Rated	тс	Con	Tol	Part Number
max.	Voltage		Cap.	Tol.	Part Number
0.9mm	50Vdc	СН	8.9pF	±0.1pF	GRM1882C1H8R9BA01#
				±0.25pF	GRM1882C1H8R9CA01#
				±0.5pF	GRM1882C1H8R9DA01#
			9.0pF	±0.05pF	GRM1882C1H9R0WA01#
				±0.1pF	GRM1882C1H9R0BA01#
				±0.25pF	GRM1882C1H9R0CA01#
				±0.5pF	GRM1882C1H9R0DA01#
			9.1pF	±0.05pF	GRM1882C1H9R1WA01#
				±0.1pF	GRM1882C1H9R1BA01#
				±0.25pF	GRM1882C1H9R1CA01#
				±0.5pF	GRM1882C1H9R1DA01#
			9.2pF	±0.05pF	GRM1882C1H9R2WA01#
				±0.1pF	GRM1882C1H9R2BA01#
				±0.25pF	GRM1882C1H9R2CA01#
				±0.5pF	GRM1882C1H9R2DA01#
			9.3pF	±0.05pF	GRM1882C1H9R3WA01#
				±0.1pF	GRM1882C1H9R3BA01#
				±0.25pF	GRM1882C1H9R3CA01#
				±0.5pF	GRM1882C1H9R3DA01#
			9.4pF	±0.05pF	GRM1882C1H9R4WA01#
				±0.1pF	GRM1882C1H9R4BA01#
				±0.25pF	GRM1882C1H9R4CA01#
				±0.5pF	GRM1882C1H9R4DA01#
			9.5pF	±0.05pF	GRM1882C1H9R5WA01#
				±0.1pF	GRM1882C1H9R5BA01#
				±0.25pF	GRM1882C1H9R5CA01#
				±0.5pF	GRM1882C1H9R5DA01#
			9.6pF	±0.05pF	GRM1882C1H9R6WA01#
				±0.1pF	GRM1882C1H9R6BA01#
				±0.25pF	GRM1882C1H9R6CA01#
				±0.5pF	GRM1882C1H9R6DA01#
			9.7pF	±0.05pF	GRM1882C1H9R7WA01#
				±0.1pF	GRM1882C1H9R7BA01#
				±0.25pF	GRM1882C1H9R7CA01#
				±0.5pF	GRM1882C1H9R7DA01#
			9.8pF	±0.05pF	
			•	±0.1pF	GRM1882C1H9R8BA01#
				±0.25pF	
				±0.5pF	GRM1882C1H9R8DA01#
			9.9pF	±0.05pF	GRM1882C1H9R9WA01#
			•	±0.1pF	GRM1882C1H9R9BA01#
				±0.25pF	GRM1882C1H9R9CA01#
				±0.5pF	GRM1882C1H9R9DA01#
			10pF	±5%	GRM1882C1H100JA01#
			12pF	±5%	GRM1882C1H120JA01#
			15pF	±5%	GRM1882C1H150JA01#
			18pF	±5%	GRM1882C1H180JA01#
			22pF	±5%	GRM1882C1H220JA01#
			27pF	±5%	GRM1882C1H270JA01#
			33pF	±5%	GRM1882C1H330JA01#
			39pF	±5%	GRM1882C1H390JA01#
				±5%	GRM1882C1H470JA01#
			47pF		
			56pF	±5%	GRM1882C1H560JA01#
			68pF	±5%	GRM1882C1H680JA01#

SOVIC CH 100pF ±5% GRM1882C1H820JA01# 120pF ±5% GRM1882C1H121JA01# 120pF ±5% GRM1882C1H121JA01# 180pF ±5% GRM1882C1H121JA01# 180pF ±5% GRM1882C1H131JA01# 220pF ±5% GRM1882C1H31JA01# 330pF ±5% GRM1882C1H331JA01# 330pF ±5% GRM1882C1H371JA01# 360pF ±5% GRM1882C1H371JA01# 560pF ±5% GRM1882C1H371JA01# 1000pF ±5% GRM1882C1H681JA01# 1200pF ±5% GRM1882C1H681JA01# 1200pF ±5% GRM1882C1H681JA01# 1200pF ±5% GRM1882C1H102JA01# 1200pF ±5% GRM1882C1H102JA01# 1200pF ±5% GRM1882C1H122JA01# 1200pF ±5% GRM1882C1H122JA01# 1200pF ±5% GRM1882C1H122JA01# 1200pF ±5% GRM1882C1H22JA01# 1200pF ±5% GRM1882C1H22JA01# 1300pF ±5% GRM1882C1H22JA01# 1500pF ±5% GRM1882C1H22JA01# 1500pF ±5% GRM1881X1H122JA01# 1200pF ±5% GRM1881X1H32JA01# 1300pF ±5% GRM1887UH12JA01# 1300pF ±5% GRM1887UH13JAJA01# 1300pF ±5% GRM1887UH13JAJA01# 1300pF ±5% GRM1887UH13JAJA01# 1300pF ±5% GRM1883UH13JAJA01# 1300pF ±5% GRM1883UH13JAJA01# 1300pF ±5% GRM1883UH13JAJA01#	Rated Voltage	TC Code	Сар.	Tol.	Part Number	
120pF	50Vdc	СН	82pF	±5%	GRM1882C1H820JA01#	
150pF			100pF	±5%	GRM1882C1H101JA01#	
180pF			120pF	±5%	GRM1882C1H121JA01#	
220pF			150pF	±5%	GRM1882C1H151JA01#	
270pF			180pF	±5%	GRM1882C1H181JA01#	
330pF			220pF	±5%	GRM1882C1H221JA01#	
390pF			270pF	±5%	GRM1882C1H271JA01#	
470pF			330pF	±5%	GRM1882C1H331JA01#	
S60pF			390pF	±5%	GRM1882C1H391JA01#	
680pF			470pF	±5%	GRM1882C1H471JA01#	
B20pF			560pF	±5%	GRM1882C1H561JA01#	
1000pf			680pF	±5%	GRM1882C1H681JA01#	
1200pf			820pF	±5%	GRM1882C1H821JA01#	
1500pF ±5% GRM1882C1H152JA01# 1800pF ±5% GRM1882C1H182JA01# 2200pF ±5% GRM1882C1H22JA01# 3300pF ±5% GRM1882C1H332JA01# 3900pF ±5% GRM1882C1H332JA01# 1500pF ±5% GRM1882C1H392JA01# 1800pF ±5% GRM1881X1H122JA01# 1800pF ±5% GRM1881X1H152JA01# 2200pF ±5% GRM1881X1H122JA01# 2700pF ±5% GRM1881X1H32JA01# 3300pF ±5% GRM1881X1H32JA01# 3900pF ±5% GRM1881X1H32JA01# 4700pF ±5% GRM1881X1H32JA01# 5600pF ±5% GRM1881X1H32JA01# 6800pF ±5% GRM1881X1H62JA01# 10000pF ±5% GRM1881X1H30JA01# 1200pF ±5% GRM1881X1H103JA01# 1500pF ±5% GRM1887U1H12JA01# 1500pF ±5% GRM1887U1H12JA01# 1500pF ±5% GRM1887U1H12JA01# 1500pF ±5% GRM1887U1H22JA01# 1500pF ±5% GRM1887U1H22JA01# 2200pF ±5% GRM1887U1H22JA01# 2200pF ±5% GRM1887U1H22JA01# 25% GRM1887U1H32JA01# 25% GRM1883U1H12JA01# 25% GRM1883U1H13JA001# 25% GRM1883U1H3JAJA01# 25% GRM1883U1H3JAJA001# 25% GRM1883U1H3			1000pF	±5%	GRM1882C1H102JA01#	
1800pF ±5% GRM1882C1H182JA01# 2200pF ±5% GRM1882C1H22JA01# 3300pF ±5% GRM1882C1H272JA01# 3900pF ±5% GRM1882C1H392JA01# 1500pF ±5% GRM1881X1H122JA01# 1800pF ±5% GRM1881X1H152JA01# 1800pF ±5% GRM1881X1H182JA01# 2200pF ±5% GRM1881X1H22JA01# 2700pF ±5% GRM1881X1H272JA01# 3300pF ±5% GRM1881X1H32JA01# 3900pF ±5% GRM1881X1H32JA01# 4700pF ±5% GRM1881X1H32JA01# 5600pF ±5% GRM1881X1H392JA01# 6800pF ±5% GRM1881X1H32JA01# 6800pF ±5% GRM1881X1H32JA01# 1200pF ±5% GRM1881X1H32JA01# 1500pF ±5% GRM1887U1H12JA01# 1500pF ±5% GRM1887U1H12JA01# 1500pF ±5% GRM1887U1H12JA01# 1500pF ±5% GRM1887U1H22JA01# 1500pF ±5% GRM1887U1H32JA01# 1500pF ±5% GRM1887U1H32JA01# 1500pF ±5% GRM1887U1H32JA01# 1500pF ±5% GRM1887U1H32JA01# 1500pF ±5% GRM1887U1H03JA01# 1200pF ±5% GRM1887U1H03JA01# 1200pF ±5% GRM1887U1H03JA01# 1200pF ±5% GRM1887U1H22JA01# 1500pF ±5% GRM1883U1H12JA01# 1500pF ±5% GRM1883U1H12JA001# 1500pF ±5% GRM1883U1H13JA001# 1500pF ±5% GRM1883U1H3JAJA01# 1500pF ±5% GRM1883U1H3JAJA01# 1500pF ±5% GRM1883U1H3JAJA01# 1500pF ±5% GRM1883U1H3JAJA001# 1500			1200pF	±5%	GRM1882C1H122JA01#	
2200pF ±5% GRM1882C1H222JA01# 2700pF ±5% GRM1882C1H332JA01# 3900pF ±5% GRM1882C1H332JA01# 3900pF ±5% GRM1882C1H392JA01# 1500pF ±5% GRM1881X1H122JA01# 1800pF ±5% GRM1881X1H152JA01# 2200pF ±5% GRM1881X1H182JA01# 2700pF ±5% GRM1881X1H22JA01# 3300pF ±5% GRM1881X1H332JA01# 3900pF ±5% GRM1881X1H332JA01# 4700pF ±5% GRM1881X1H332JA01# 6800pF ±5% GRM1881X1H332JA01# 6200pF ±5% GRM1881X1H30JA01# 1500pF ±5% GRM1887U1H12JA01# 1800pF ±5% GRM1887U1H12JA01# 2200pF ±5% GRM1887U1H12JA01# 2700pF ±5% GRM1887U1H22JA01# 3300pF ±5% GRM1887U1H22JA01# 2700pF ±5% GRM1887U1H22JA01# 2700pF ±5% GRM1887U1H22JA01# 3300pF ±5% GRM1887U1H33JA01# 3900pF ±5% GRM1887U1H32JA01# 3900pF ±5% GRM1887U1H32JA01# 4700pF ±5% GRM1887U1H03JA01# 4700pF ±5% GRM1883U1H102JA01# 4700pF ±5% GRM1883U1H102JA01# 4700pF ±5% GRM1883U1H12JA01# 4700pF ±5% GRM1883U1H132JA01# 4700pF ±5% GRM1883U1H132JA01# 4700pF ±5% GRM1883U1H33JA001# 4700pF ±5% GRM1883U1H37JA001# 4700pF ±5% GRM1883U1H37JA001# 4700pF ±5% GRM1883U1H37JA001# 4700pF ±5% GRM1883U1H37JA001# 4700pF ±5% GRM1883U1H30JA00			1500pF	±5%	GRM1882C1H152JA01#	
2700pF ±5% GRM1882C1H272JA01# 3300pF ±5% GRM1882C1H332JA01# 3900pF ±5% GRM1882C1H392JA01# 1500pF ±5% GRM1881X1H12JA01# 1800pF ±5% GRM1881X1H152JA01# 2200pF ±5% GRM1881X1H182JA01# 2700pF ±5% GRM1881X1H272JA01# 3300pF ±5% GRM1881X1H272JA01# 3900pF ±5% GRM1881X1H332JA01# 4700pF ±5% GRM1881X1H392JA01# 6800pF ±5% GRM1881X1H682JA01# 6200pF ±5% GRM1881X1H30JA01# 1500pF ±5% GRM1887U1H12JA01# 1500pF ±5% GRM1887U1H12JA01# 2200pF ±5% GRM1887U1H12JA01# 2700pF ±5% GRM1887U1H22JA01# 3300pF ±5% GRM1887U1H22JA01# 2700pF ±5% GRM1887U1H22JA01# 3300pF ±5% GRM1887U1H22JA01# 3000pF ±5% GRM1887U1H22JA01# 3000pF ±5% GRM1887U1H22JA01# 3000pF ±5% GRM1887U1H32JA01# 3000pF ±5% GRM1887U1H03JA01# 4700pF ±5% GRM1883U1H12JA01# 4700pF ±5% GRM1883U1H132JA01# 4700pF ±5% GRM1883U1H132JA01# 4700pF ±5% GRM1883U1H132JA01# 4700pF ±5% GRM1883U1H132JA01# 4700pF ±5% GRM1883U1H33JA001# 4700pF ±5% GRM1883U1H37JA001# 4700pF ±5% GRM1883U1H30JA001#			1800pF	±5%	GRM1882C1H182JA01#	
3300pF ±5% GRM1882C1H332JA01# 3900pF ±5% GRM1881X1H12JA01# 1500pF ±5% GRM1881X1H152JA01# 1800pF ±5% GRM1881X1H122JA01# 2200pF ±5% GRM1881X1H22JA01# 2700pF ±5% GRM1881X1H22JA01# 3300pF ±5% GRM1881X1H32JA01# 3900pF ±5% GRM1881X1H32JA01# 4700pF ±5% GRM1881X1H392JA01# 6800pF ±5% GRM1881X1H392JA01# 6800pF ±5% GRM1881X1H682JA01# 10000pF ±5% GRM1881X1H03JA01# 1500pF ±5% GRM1887U1H12JA01# 1500pF ±5% GRM1887U1H12JA01# 2200pF ±5% GRM1887U1H22JA01# 2700pF ±5% GRM1887U1H22JA01# 3300pF ±5% GRM1887U1H22JA01# 2700pF ±5% GRM1887U1H32JA01# 3900pF ±5% GRM1887U1H32JA01# 3900pF ±5% GRM1887U1H32JA01# 3900pF ±5% GRM1887U1H32JA01# 3900pF ±5% GRM1887U1H32JA01# 4700pF ±5% GRM1887U1H32JA01# 5600pF ±5% GRM1887U1H32JA01# 5600pF ±5% GRM1887U1H32JA01# 5600pF ±5% GRM1887U1H32JA01# 6800pF ±5% GRM1887U1H32JA01# 6800pF ±5% GRM1887U1H03JA01# 1200pF ±5% GRM1887U1H03JA01# 1200pF ±5% GRM1883U1H12JA01# 1200pF ±5% GRM1883U1H12JA01# 1200pF ±5% GRM1883U1H12JA01# 1200pF ±5% GRM1883U1H22JA01# 1200pF ±5% GRM1883U1H22JA01# 1200pF ±5% GRM1883U1H22JA01# 1200pF ±5% GRM1883U1H32JA01# 1200pF ±5% GRM1883U1H332JA001# 1200pF ±5% GRM1883U1H332JA01# 1200pF ±5% GRM1883U1H332JA01# 1200pF ±5% GRM1883			2200pF	±5%	GRM1882C1H222JA01#	
3900pF			2700pF	±5%	GRM1882C1H272JA01#	
SL 1200pF ±5% GRM1881X1H122JA01# 1500pF ±5% GRM1881X1H152JA01# 2200pF ±5% GRM1881X1H182JA01# 2700pF ±5% GRM1881X1H182JA01# 3300pF ±5% GRM1881X1H332JA01# 3900pF ±5% GRM1881X1H392JA01# 4700pF ±5% GRM1881X1H392JA01# 5600pF ±5% GRM1881X1H562JA01# 6800pF ±5% GRM1881X1H682JA01# 10000pF ±5% GRM1881X1H03JA01# 1500pF ±5% GRM1887U1H122JA01# 1500pF ±5% GRM1887U1H12JA01# 2200pF ±5% GRM1887U1H22JA01# 3300pF ±5% GRM1887U1H32JA01# 3300pF ±5% GRM1887U1H32JA01# 1500pF ±5% GRM1887U1H32JA01# 2700pF ±5% GRM1887U1H32JA01# 3300pF ±5% GRM1887U1H32JA01# 300pF ±5% GRM1887U1H32JA01# 300pF ±5% GRM1887U1H32JA01# 4700pF ±5% GRM1887U1H32JA01# 5600pF ±5% GRM1887U1H32JA01# 5600pF ±5% GRM1887U1H32JA01# 5600pF ±5% GRM1887U1H32JA01# 10000pF ±5% GRM1887U1H32JA01# 10000pF ±5% GRM1887U1H32JA01# 1200pF ±5% GRM1887U1H32JA01# 1200pF ±5% GRM1887U1H32JA01# 1200pF ±5% GRM1883U1H12JA01# 1200pF ±5% GRM1883U1H12JA01# 1200pF ±5% GRM1883U1H12JA01# 1200pF ±5% GRM1883U1H32JA01# 12			3300pF	±5%	GRM1882C1H332JA01#	
1500pF ±5% GRM1881X1H152JA01# 2200pF ±5% GRM1881X1H182JA01# 2700pF ±5% GRM1881X1H22JA01# 3300pF ±5% GRM1881X1H332JA01# 3900pF ±5% GRM1881X1H392JA01# 4700pF ±5% GRM1881X1H392JA01# 5600pF ±5% GRM1881X1H662JA01# 8200pF ±5% GRM1881X1H682JA01# 10000pF ±5% GRM1881X1H30JA01# 1500pF ±5% GRM1887U1H12JA01# 2200pF ±5% GRM1887U1H12JA01# 2200pF ±5% GRM1887U1H182JA01# 3300pF ±5% GRM1887U1H32JA01# 2700pF ±5% GRM1887U1H32JA01# 3300pF ±5% GRM1887U1H32JA01# 300pF ±5% GRM1883U1H32JA01#			3900pF	±5%	GRM1882C1H392JA01#	
1800pF		SL	1200pF	±5%	GRM1881X1H122JA01#	
2200pF			1500pF	±5%	GRM1881X1H152JA01#	
2700pF ±5% GRM1881X1H272JA01# 3300pF ±5% GRM1881X1H332JA01# 3900pF ±5% GRM1881X1H392JA01# 4700pF ±5% GRM1881X1H562JA01# 5600pF ±5% GRM1881X1H682JA01# 8200pF ±5% GRM1881X1H682JA01# 10000pF ±5% GRM1881X1H03JA01# 10000pF ±5% GRM1887U1H12JA01# 1500pF ±5% GRM1887U1H12JA01# 1500pF ±5% GRM1887U1H12JA01# 2200pF ±5% GRM1887U1H22JA01# 2200pF ±5% GRM1887U1H32JA01# 3300pF ±5% GRM1887U1H332JA01# 3900pF ±5% GRM1887U1H392JA01# 4700pF ±5% GRM1887U1H392JA01# 5600pF ±5% GRM1887U1H392JA01# 6800pF ±5% GRM1887U1H562JA01# 6800pF ±5% GRM1887U1H682JA01# 10000pF ±5% GRM1887U1H682JA01# 10000pF ±5% GRM1887U1H03JA01# 1200pF ±5% GRM1887U1H03JA01# 1200pF ±5% GRM1883U1H102JA01# 1500pF ±5% GRM1883U1H12JA01# 1200pF ±5% GRM1883U1H152JA01# 1200pF ±5% GRM1883U1H152JA01# 1300pF ±5% GRM1883U1H39JA01# 2200pF ±5% GRM1883U1H39JA01# 2300pF ±5% GRM1883U1H33JA01# 3300pF ±5% GRM1883U1H33JA01#			1800pF	±5%	GRM1881X1H182JA01#	
3300pF ±5% GRM1881X1H332JA01# 4700pF ±5% GRM1881X1H392JA01# 4700pF ±5% GRM1881X1H392JA01# 5600pF ±5% GRM1881X1H562JA01# 8200pF ±5% GRM1881X1H682JA01# 10000pF ±5% GRM1881X1H103JA01# 1500pF ±5% GRM1887U1H12JA01# 1500pF ±5% GRM1887U1H12JA01# 2200pF ±5% GRM1887U1H122JA01# 2700pF ±5% GRM1887U1H22JA01# 3300pF ±5% GRM1887U1H332JA01# 3900pF ±5% GRM1887U1H332JA01# 4700pF ±5% GRM1887U1H332JA01# 5600pF ±5% GRM1887U1H332JA01# 4700pF ±5% GRM1887U1H472JA01# 5600pF ±5% GRM1887U1H472JA01# 5600pF ±5% GRM1887U1H682JA01# 8200pF ±5% GRM1887U1H682JA01# 10000pF ±5% GRM1887U1H03JA01# 1000pF ±5% GRM1883U1H102JA01# 1200pF ±5% GRM1883U1H102JA01# 1200pF ±5% GRM1883U1H122JA01# 1500pF ±5% GRM1883U1H122JA01# 1500pF ±5% GRM1883U1H122JA01# 1300pF ±5% GRM1883U1H122JA01# 1300pF ±5% GRM1883U1H122JA01# 1300pF ±5% GRM1883U1H122JA01# 1300pF ±5% GRM1883U1H32JA01# 3300pF ±5% GRM1883U1H32JA01# 3300pF ±5% GRM1883U1H32JA01# 3300pF ±5% GRM1883U1H332JA01# 3300pF ±5% GRM1883U1H332JA01# 3300pF ±5% GRM1883U1H332JA01# 3300pF ±5% GRM1883U1H332JA01#			2200pF	±5%	GRM1881X1H222JA01#	
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10000pF			6800pF	±5%	GRM1881X1H682JA01#	
U2J 1200pF			8200pF	±5%	GRM1881X1H822JA01#	
U2J 1200pF			10000pF	±5%	GRM1881X1H103JA01#	
1800pF ±5% GRM1887U1H182JA01# 2200pF ±5% GRM1887U1H222JA01# 2700pF ±5% GRM1887U1H272JA01# 3300pF ±5% GRM1887U1H332JA01# 3900pF ±5% GRM1887U1H392JA01# 4700pF ±5% GRM1887U1H472JA01# 5600pF ±5% GRM1887U1H562JA01# 6800pF ±5% GRM1887U1H682JA01# 8200pF ±5% GRM1887U1H082JA01# 10000pF ±5% GRM1887U1H103JA01# 1000pF ±5% GRM1887U1H103JA01# 1200pF ±5% GRM1883U1H102JA01# 1500pF ±5% GRM1883U1H122JA01# 1800pF ±5% GRM1883U1H152JA01# 2200pF ±5% GRM1883U1H122JA01# 2700pF ±5% GRM1883U1H222JA01# 3300pF ±5% GRM1883U1H32JA01# 3300pF ±5% GRM1883U1H332JA01# 3900pF ±5% GRM1883U1H332JA01# 3900pF ±5% GRM1883U1H392JA01#		U2J		±5%	GRM1887U1H122JA01#	
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6800pF ±5% GRM1887U1H682JA01# 8200pF ±5% GRM1887U1H822JA01# 10000pF ±5% GRM1887U1H103JA01# UJ 1000pF ±5% GRM1883U1H102JA01# 1200pF ±5% GRM1883U1H122JA01# 1500pF ±5% GRM1883U1H152JA01# 1800pF ±5% GRM1883U1H182JA01# 2200pF ±5% GRM1883U1H222JA01# 2700pF ±5% GRM1883U1H272JA01# 3300pF ±5% GRM1883U1H272JA01# 3900pF ±5% GRM1883U1H332JA01# 4700pF ±5% GRM1883U1H392JA01#			4700pF	±5%	GRM1887U1H472JA01#	
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UJ 1000pF ±5% GRM1883U1H102JA01# 1200pF ±5% GRM1883U1H122JA01# 1500pF ±5% GRM1883U1H152JA01# 1800pF ±5% GRM1883U1H182JA01# 2200pF ±5% GRM1883U1H222JA01# 2700pF ±5% GRM1883U1H272JA01# 3300pF ±5% GRM1883U1H332JA01# 3900pF ±5% GRM1883U1H392JA01# 4700pF ±5% GRM1883U1H372JA01#			8200pF	±5%	GRM1887U1H822JA01#	
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1800pF ±5% GRM1883U1H182JA01# 2200pF ±5% GRM1883U1H222JA01# 2700pF ±5% GRM1883U1H272JA01# 3300pF ±5% GRM1883U1H332JA01# 3900pF ±5% GRM1883U1H392JA01# 4700pF ±5% GRM1883U1H472JA01#			1200pF	±5%	GRM1883U1H122JA01#	
2200pF ±5% GRM1883U1H222JA01# 2700pF ±5% GRM1883U1H272JA01# 3300pF ±5% GRM1883U1H332JA01# 3900pF ±5% GRM1883U1H392JA01# 4700pF ±5% GRM1883U1H472JA01#			1500pF	±5%	GRM1883U1H152JA01#	
2700pF ±5% GRM1883U1H272JA01# 3300pF ±5% GRM1883U1H332JA01# 3900pF ±5% GRM1883U1H392JA01# 4700pF ±5% GRM1883U1H472JA01#			1800pF	±5%	GRM1883U1H182JA01#	
3300pF ±5% GRM1883U1H332JA01# 3900pF ±5% GRM1883U1H392JA01# 4700pF ±5% GRM1883U1H472JA01#			2200pF	±5%	GRM1883U1H222JA01#	
3900pF ±5% GRM1883U1H392JA01# 4700pF ±5% GRM1883U1H472JA01#			2700pF	±5%	GRM1883U1H272JA01#	
4700pF ±5% GRM1883U1H472JA01#			3300pF	±5%	GRM1883U1H332JA01#	
			3900pF	±5%	GRM1883U1H392JA01#	
Part number # indicates the package specification code.			4700pF	±5%	GRM1883U1H472JA01#	
		,	Part nun	nber # indic	cates the package specification	code.

Low ESL LL□ Series

GRM Series Temperature Compensating Type Part Number List

(→ **■** 1.6×0.8mm)

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number
0.9mm	50Vdc	UJ	5600pF	±5%	GRM1883U1H562JA01#
			6800pF	±5%	GRM1883U1H682JA01#
			8200pF	±5%	GRM1883U1H822JA01#
			10000pF	±5%	GRM1883U1H103JA01#
	10Vdc	SL	12000pF	±5%	GRM1881X1A123JA01#
			15000pF	±5%	GRM1881X1A153JA01#
			18000pF	±5%	GRM1881X1A183JA01#
			22000pF	±5%	GRM1881X1A223JA01#
		U2J	12000pF	±5%	GRM1887U1A123JA01#
			15000pF	±5%	GRM1887U1A153JA01#
			18000pF	±5%	GRM1887U1A183JA01#
			22000pF	±5%	GRM1887U1A223JA01#
		UJ	12000pF	±5%	GRM1883U1A123JA01#
			15000pF	±5%	GRM1883U1A153JA01#
			18000pF	±5%	GRM1883U1A183JA01#
			22000pF	±5%	GRM1883U1A223JA01#

■ 2.0×1.25mm

T max.	Rated Voltage	TC Code	Сар.	Tol.	Part Number
0.7mm	100Vdc	COG	100pF	±5%	GRM2165C2A101JA01#
			120pF	±5%	GRM2165C2A121JA01#
			150pF	±5%	GRM2165C2A151JA01#
			180pF	±5%	GRM2165C2A181JA01#
			220pF	±5%	GRM2165C2A221JA01#
			270pF	±5%	GRM2165C2A271JA01#
			330pF	±5%	GRM2165C2A331JA01#
			390pF	±5%	GRM2165C2A391JA01#
			470pF	±5%	GRM2165C2A471JA01#
			560pF	±5%	GRM2165C2A561JA01#
			680pF	±5%	GRM2165C2A681JA01#
			820pF	±5%	GRM2165C2A821JA01#
			1000pF	±5%	GRM2165C2A102JA01#
			1200pF	±5%	GRM2165C2A122JA01#
			1500pF	±5%	GRM2165C2A152JA01#
			1800pF	±5%	GRM2165C2A182JA01#
			2200pF	±5%	GRM2165C2A222JA01#
			2700pF	±5%	GRM2165C2A272JA01#
			3300pF	±5%	GRM2165C2A332JA01#
		СН	100pF	±5%	GRM2162C2A101JA01#
			120pF	±5%	GRM2162C2A121JA01#
			150pF	±5%	GRM2162C2A151JA01#
			180pF	±5%	GRM2162C2A181JA01#
			220pF	±5%	GRM2162C2A221JA01#
			270pF	±5%	GRM2162C2A271JA01#
			330pF	±5%	GRM2162C2A331JA01#
			390pF	±5%	GRM2162C2A391JA01#
			470pF	±5%	GRM2162C2A471JA01#
			560pF	±5%	GRM2162C2A561JA01#
			680pF	±5%	GRM2162C2A681JA01#
			820pF	±5%	GRM2162C2A821JA01#
			1000pF	±5%	GRM2162C2A102JA01#
			1200pF	±5%	GRM2162C2A122JA01#

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number
0.7mm	100Vdc	СН	1500pF	±5%	GRM2162C2A152JA01#
			1800pF	±5%	GRM2162C2A182JA01#
			2200pF	±5%	GRM2162C2A222JA01#
			2700pF	±5%	GRM2162C2A272JA01#
			3300pF	±5%	GRM2162C2A332JA01#
	50Vdc	COG	1200pF	±5%	GRM2165C1H122JA01#
			1500pF	±5%	GRM2165C1H152JA01#
			1800pF	±5%	GRM2165C1H182JA01#
			2200pF	±5%	GRM2165C1H222JA01#
			2700pF	±5%	GRM2165C1H272JA01#
			3300pF	±5%	GRM2165C1H332JA01#
			3900pF	±5%	GRM2165C1H392JA01#
			4700pF	±5%	GRM2165C1H472JA01#
		СН	1200pF	±5%	GRM2162C1H122JA01#
			1500pF	±5%	GRM2162C1H152JA01#
			1800pF	±5%	GRM2162C1H182JA01#
			2200pF	±5%	GRM2162C1H222JA01#
			2700pF	±5%	GRM2162C1H272JA01#
			3300pF	±5%	GRM2162C1H332JA01#
			3900pF	±5%	GRM2162C1H392JA01#
			4700pF	±5%	GRM2162C1H472JA01#
		SL	12000pF	±5%	GRM2161X1H123JA01#
			15000pF	±5%	GRM2161X1H153JA01#
			18000pF	±5%	GRM2161X1H183JA01#
		U2J	12000pF	±5%	GRM2167U1H123JA01#
			15000pF	±5%	GRM2167U1H153JA01#
			18000pF	±5%	GRM2167U1H183JA01#
		UJ	10000pF	±5%	GRM2163U1H103JA01#
			12000pF	±5%	GRM2163U1H123JA01#
			15000pF	±5%	GRM2163U1H153JA01#
			18000pF	±5%	GRM2163U1H183JA01#
0.95mm	50Vdc	COG	5600pF	±5%	GRM2195C1H562JA01#
			6800pF	±5%	GRM2195C1H682JA01#
			8200pF	±5%	GRM2195C1H822JA01#
			10000pF	±5%	GRM2195C1H103JA01#
			12000pF	±5%	GRM2195C1H123JA01#
			15000pF	±5%	GRM2195C1H153JA01#
		CH	5600pF	±5%	GRM2192C1H562JA01#
			6800pF	±5%	GRM2192C1H682JA01#
			8200pF	±5%	GRM2192C1H822JA01#
			10000pF	±5%	GRM2192C1H103JA01#
			12000pF	±5%	GRM2192C1H123JA01#
			15000pF	±5%	GRM2192C1H123JA01#
		SL	22000pF	±5%	GRM2191X1H223JA01#
		J SL	· ·		GRM2191X1H223JA01#
		U2J	27000pF	±5%	
		U2J	22000pF	±5%	GRM2197U1H223JA01#
			27000pF	±5%	GRM2197U1H273JA01#
		UJ	22000pF	±5%	GRM2193U1H223JA01#
	101/1		27000pF	±5%	GRM2193U1H273JA01#
	10Vdc	SL	56000pF	±5%	GRM2191X1A563JA01#
		U2J	56000pF	±5%	GRM2197U1A563JA01#
	E614:	UJ	56000pF	±5%	GRM2193U1A563JA01#
1mm	50Vdc	SL	33000pF	±5%	GRM21A1X1H333JA39#
		U2J	33000pF	±5%	GRM21A7U1H333JA39#

GRM Series Temperature Compensating Type Part Number List

(→ **■** 2.0×1.25mm)

Т	Rated	TC	Cap.	Tol.	Part Number
max.	Voltage	Code	Сар.	101.	Part Number
1mm	50Vdc	UJ	33000pF	±5%	GRM21A3U1H333JA39#
1.35mm	50Vdc	COG	18000pF	±5%	GRM21B5C1H183JA01#
			22000pF	±5%	GRM21B5C1H223JA01#
		СН	18000pF	±5%	GRM21B2C1H183JA01#
			22000pF	±5%	GRM21B2C1H223JA01#
		SL	39000pF	±5%	GRM21B1X1H393JA01#
			47000pF	±5%	GRM21B1X1H473JA01#
		U2J	39000pF	±5%	GRM21B7U1H393JA01#
			47000pF	±5%	GRM21B7U1H473JA01#
		UJ	39000pF	±5%	GRM21B3U1H393JA01#
			47000pF	±5%	GRM21B3U1H473JA01#
	10Vdc	SL	68000pF	±5%	GRM21B1X1A683JA01#
			82000pF	±5%	GRM21B1X1A823JA01#
			0.1µF	±5%	GRM21B1X1A104JA01#
		U2J	68000pF	±5%	GRM21B7U1A683JA01#
			82000pF	±5%	GRM21B7U1A823JA01#
			0.1µF	±5%	GRM21B7U1A104JA01#
		UJ	68000pF	±5%	GRM21B3U1A683JA01#
			82000pF	±5%	GRM21B3U1A823JA01#
			0.1µF	±5%	GRM21B3U1A104JA01#

■ 3.2×	1.6mm
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T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number
0.95mm	100Vdc	COG	1800pF	±5%	GRM3195C2A182JA01#
			2200pF	±5%	GRM3195C2A222JA01#
			2700pF	±5%	GRM3195C2A272JA01#
			3300pF	±5%	GRM3195C2A332JA01#
			3900pF	±5%	GRM3195C2A392JA01#
			4700pF	±5%	GRM3195C2A472JA01#
			5600pF	±5%	GRM3195C2A562JA01#
			6800pF	±5%	GRM3195C2A682JA01#
			8200pF	±5%	GRM3195C2A822JA01#
			10000pF	±5%	GRM3195C2A103JA01#
			12000pF	±5%	GRM3195C2A123JA01#
			15000pF	±5%	GRM3195C2A153JA01#
			18000pF	±5%	GRM3195C2A183JA01#
			22000pF	±5%	GRM3195C2A223JA01#
		CH	1800pF	±5%	GRM3192C2A182JA01#
			2200pF	±5%	GRM3192C2A222JA01#
			2700pF	±5%	GRM3192C2A272JA01#
			3300pF	±5%	GRM3192C2A332JA01#
			3900pF	±5%	GRM3192C2A392JA01#
			4700pF	±5%	GRM3192C2A472JA01#
			5600pF	±5%	GRM3192C2A562JA01#
			6800pF	±5%	GRM3192C2A682JA01#
			8200pF	±5%	GRM3192C2A822JA01#
			10000pF	±5%	GRM3192C2A103JA01#
			12000pF	±5%	GRM3192C2A123JA01#
			15000pF	±5%	GRM3192C2A153JA01#
			18000pF	±5%	GRM3192C2A183JA01#
			22000pF	±5%	GRM3192C2A223JA01#
	50Vdc	C0G	12000pF	±5%	GRM3195C1H123JA01#

T max.	Rated Voltage	TC Code	Сар.	Tol.	Part Number
0.95mm	50Vdc	COG	15000pF	±5%	GRM3195C1H153JA01#
			18000pF	±5%	GRM3195C1H183JA01#
			22000pF	±5%	GRM3195C1H223JA01#
			27000pF	±5%	GRM3195C1H273JA01#
			33000pF	±5%	GRM3195C1H333JA01#
			39000pF	±5%	GRM3195C1H393JA01#
		CH	12000pF	±5%	GRM3192C1H123JA01#
			15000pF	±5%	GRM3192C1H153JA01#
			18000pF	±5%	GRM3192C1H183JA01#
			22000pF	±5%	GRM3192C1H223JA01#
			27000pF	±5%	GRM3192C1H273JA01#
			33000pF	±5%	GRM3192C1H333JA01#
			39000pF	±5%	GRM3192C1H393JA01#
		SL	56000pF	±5%	GRM3191X1H563JA01#
		U2J	56000pF	±5%	GRM3197U1H563JA01#
		UJ	56000pF	±5%	GRM3193U1H563JA01#
1.25mm	50Vdc	COG	47000pF	±5%	GRM31M5C1H473JA01#
			56000pF	±5%	GRM31M5C1H563JA01#
		CH	47000pF	±5%	GRM31M2C1H473JA01#
			56000pF	±5%	GRM31M2C1H563JA01#
		SL	68000pF	±5%	GRM31M1X1H683JA01#
			82000pF	±5%	GRM31M1X1H823JA01#
			0.1µF	±5%	GRM31M1X1H104JA01#
		U2J	68000pF	±5%	GRM31M7U1H683JA01#
			82000pF	±5%	GRM31M7U1H823JA01#
			0.1µF	±5%	GRM31M7U1H104JA01#
		UJ	68000pF	±5%	GRM31M3U1H683JA01#
			82000pF	±5%	GRM31M3U1H823JA01#
			0.1µF	±5%	GRM31M3U1H104JA01#
1.8mm	50Vdc	COG	68000pF	±5%	GRM31C5C1H683JA01#
			82000pF	±5%	GRM31C5C1H823JA01#
			0.1µF	±5%	GRM31C5C1H104JA01#
		CH	68000pF	±5%	GRM31C2C1H683JA01#
			82000pF	±5%	GRM31C2C1H823JA01#
			0.1µF	±5%	GRM31C2C1H104JA01#



■ 0.4>	×0.2mı	M comp	ra- pact		
T max.	Rated Voltage	TC Code	Сар.	Tol.	Part Number
0.22mm	10Vdc	X7R	68pF	±10%	GRM022R71A680KA01#
				±20%	GRM022R71A680MA01#
			100pF	±10%	GRM022R71A101KA01#
				±20%	GRM022R71A101MA01#
			150pF	±10%	GRM022R71A151KA01#
				±20%	GRM022R71A151MA01#
			220pF	±10%	GRM022R71A221KA01#
				±20%	GRM022R71A221MA01#
			330pF	±10%	GRM022R71A331KA01#
				±20%	GRM022R71A331MA01#
			470pF	±10%	GRM022R71A471KA01#
				±20%	GRM022R71A471MA01#
		X5R	68pF	±10%	GRM022R61A680KA01#
				±20%	GRM022R61A680MA01#
			100pF	±10%	GRM022R61A101KA01#
				±20%	GRM022R61A101MA01#
			150pF	±10%	GRM022R61A151KA01#
				±20%	GRM022R61A151MA01#
			220pF	±10%	GRM022R61A221KA01#
				±20%	GRM022R61A221MA01#
			330pF	±10%	GRM022R61A331KA01#
				±20%	GRM022R61A331MA01#
			470pF	±10%	GRM022R61A471KA01#
				±20%	GRM022R61A471MA01#
			680pF	±10%	GRM022R61A681KE19#
				±20%	GRM022R61A681ME19#
			1000pF	±10%	GRM022R61A102KE19#
				±20%	GRM022R61A102ME19#
			1500pF	±10%	GRM022R61A152KE19#
				±20%	GRM022R61A152ME19#
			2200pF	±10%	GRM022R61A222KE19#
			3300pF	±20%	GRM022R61A222ME19#
				±10%	GRM022R61A332KE19#
				±20%	GRM022R61A332ME19#
			4700pF	±10%	GRM022R61A472KE19#
				±20%	GRM022R61A472ME19#
			6800pF	±10%	GRM022R61A682KE19#
				±20%	GRM022R61A682ME19#
			10000pF	±10%	GRM022R61A103KE19#
				±20%	GRM022R61A103ME19#
		В	68pF	±10%	GRM022B11A680KA01#
				±20%	GRM022B11A680MA01#
			100pF	±10%	GRM022B11A101KA01#
				±20%	GRM022B11A101MA01#
			150pF	±10%	GRM022B11A151KA01#
				±20%	GRM022B11A151MA01#
			220pF	±10%	GRM022B11A221KA01#
				±20%	GRM022B11A221MA01#
			330pF	±10%	GRM022B11A331KA01#
				±20%	GRM022B11A331MA01#
			470pF	±10%	GRM022B11A471KA01#
				±20%	GRM022B11A471MA01#

T max.	Rated Voltage	TC Code	Сар.	Tol.	Part Number	
0.22mm	10Vdc	В	680pF	±10%	GRM022B31A681KE19#	
				±20%	GRM022B31A681ME19#	
			1000pF	±10%	GRM022B31A102KE19#	
				±20%	GRM022B31A102ME19#	
			1500pF	±10%	GRM022B31A152KE19#	
				±20%	GRM022B31A152ME19#	
			2200pF	±10%	GRM022B31A222KE19#	
				±20%	GRM022B31A222ME19#	
			3300pF	±10%	GRM022B31A332KE19#	
				±20%	GRM022B31A332ME19#	
			4700pF	±10%	GRM022B31A472KE19#	
				±20%	GRM022B31A472ME19#	
			6800pF	±10%	GRM022B31A682KE19#	
				±20%	GRM022B31A682ME19#	
			10000pF	±10%	GRM022B31A103KE19#	
				±20%	GRM022B31A103ME19#	
	6.3Vdc	X5R	680pF	±20%	GRM022R60J681ME19#	
			1000pF	±20%	GRM022R60J102ME19#	
			1500pF	±20%	GRM022R60J152ME19#	
			2200pF	±20%	GRM022R60J222ME19#	
			3300pF	±20%	GRM022R60J332ME19#	
			4700pF	±20%	GRM022R60J472ME19#	
			6800pF	±20%	GRM022R60J682ME19#	
			10000pF	±20%	GRM022R60J103ME19#	
			15000pF	±20%	GRM022R60J153ME15#	Derating
			22000pF	±10%	GRM022R60J223KE15#	Derating
				±20%	GRM022R60J223ME15#	Derating
			33000pF	±20%	GRM022R60J333ME15#	Derating
			47000pF	±20%	GRM022R60J473ME15#	Derating
			68000pF	±20%	GRM022R60J683ME15#	Derating
			0.1µF	±20%	GRM022R60J104ME15#	Derating
		В	680pF	±20%	GRM022B30J681ME19#	
			1000pF	±20%	GRM022B30J102ME19#	
			1500pF	±20%	GRM022B30J152ME19#	
			2200pF	±20%	GRM022B30J222ME19#	
			3300pF	±20%	GRM022B30J332ME19#	
			4700pF	±20%	GRM022B30J472ME19#	
			6800pF	±20%	GRM022B30J682ME19#	
	4Vdc	X5R	10000pF	±20%	GRM022B30J103ME19# GRM022R60G153KE15#	
	4000	ASK	15000pF	±10% ±20%	GRM022R60G153KE15#	
			22000pF	±10%	GRM022R60G223KE15#	
			2200001	±20%	GRM022R60G223ME15#	
			33000pF	±10%	GRM022R60G333KE15#	
			Joooopi	±20%	GRM022R60G333KE15#	
			47000pF	±10%	GRM022R60G333ME15#	
			+1 000pi	±10%	GRM022R60G473KE15#	
			68000pF	±20%	GRM022R60G683ME15#	
			0.1µF	±20%	GRM022R60G104ME15#	
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Capacitor Array GNM Series

GRM Series High Dielectric Constant Type Part Number List

0.6x0.3mm Ultra-



0.07	×0.3mı	III comp	pact		
T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number
0.33mm	50Vdc	X7R	100pF	±10%	GRM033R71H101KA12#
				±20%	GRM033R71H101MA12#
			150pF	±10%	GRM033R71H151KA12#
				±20%	GRM033R71H151MA12#
			220pF	±10%	GRM033R71H221KA12#
				±20%	GRM033R71H221MA12#
			330pF	±10%	GRM033R71H331KA12#
				±20%	GRM033R71H331MA12#
			470pF	±10%	GRM033R71H471KA12#
				±20%	GRM033R71H471MA12#
			680pF	±10%	GRM033R71H681KA12#
				±20%	GRM033R71H681MA12#
			1000pF	±10%	GRM033R71H102KA12#
				±20%	GRM033R71H102MA12#
			1500pF	±10%	GRM033R71H152KA12#
				±20%	GRM033R71H152MA12#
		В	100pF	±10%	GRM033B31H101KA12#
				±20%	GRM033B31H101MA12#
			150pF	±10%	GRM033B31H151KA12#
				±20%	GRM033B31H151MA12#
			220pF	±10%	GRM033B31H221KA12#
				±20%	GRM033B31H221MA12#
			330pF	±10%	GRM033B31H331KA12#
				±20%	GRM033B31H331MA12#
			470pF	±10%	GRM033B31H471KA12#
				±20%	GRM033B31H471MA12#
			680pF	±10%	GRM033B31H681KA12#
				±20%	GRM033B31H681MA12#
			1000pF	±10%	GRM033B31H102KA12#
				±20%	GRM033B31H102MA12#
			1500pF	±10%	GRM033B31H152KA12#
				±20%	GRM033B31H152MA12#
	25Vdc	X7R	100pF	±10%	GRM033R71E101KA01#
	20.00	/ / / /	150pF	±10%	GRM033R71E151KA01#
			220pF	±10%	GRM033R71E221KA01#
			330pF	±10%	GRM033R71E331KA01#
			470pF	±10%	GRM033R71E471KA01#
			<u> </u>	±10%	GRM033R71E681KA01#
			680pF 1000pF	±10%	GRM033R71E102KA01#
			1500pF	±10% ±10%	GRM033R71E152KA01#
			2200pF	±10%	GRM033R71E222KA12#
			2200~		GRM033R71E222MA12#
			3300pF	±10%	GRM033R71E332KA12#
		P	100-5	±20%	GRM033R71E332MA12#
		R	100pF	±10%	GRM033R11E101KA01#
			150pF	±10%	GRM033R11E151KA01#
			220pF	±10%	GRM033R11E221KA01#
			330pF	±10%	GRM033R11E331KA01#
			470pF	±10%	GRM033R11E471KA01#
			680pF	±10%	GRM033R11E681KA01#
			1000pF	±10%	GRM033R11E102KA01#
			1500pF	±10%	GRM033R11E152KA01#

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number	
0.33mm	25Vdc	X5R	100pF	±10%	GRM033R61E101KA01#	
			150pF	±10%	GRM033R61E151KA01#	
			220pF	±10%	GRM033R61E221KA01#	
			330pF	±10%	GRM033R61E331KA01#	
			470pF	±10%	GRM033R61E471KA01#	
			680pF	±10%	GRM033R61E681KA01#	
			1000pF	±10%	GRM033R61E102KA01#	
			10000pF	±10%	GRM033R61E103KA12#	Derating
				±20%	GRM033R61E103MA12#	Derating
		В	100pF	±10%	GRM033B11E101KA01#	
			150pF	±10%	GRM033B11E151KA01#	
			220pF	±10%	GRM033B11E221KA01#	
			330pF	±10%	GRM033B11E331KA01#	
			470pF	±10%	GRM033B11E471KA01#	
			680pF	±10%	GRM033B11E681KA01#	
			1000pF	±10%	GRM033B11E102KA01#	
				±20%	GRM033B11E102MA01#	
			1500pF	±10%	GRM033B11E152KA01#	
				±20%	GRM033B11E152MA01#	
			2200pF	±10%	GRM033B31E222KA12#	
				±20%	GRM033B31E222MA12#	
			3300pF	±10%	GRM033B31E332KA12#	
				±20%	GRM033B31E332MA12#	
			10000pF	±10%	GRM033B31E103KA12#	Derating
				±20%	GRM033B31E103MA12#	Derating
	16Vdc	X7R	2200pF	±10%	GRM033R71C222KA88#	
			3300pF	±10%	GRM033R71C332KA88#	
		R	2200pF	±10%	GRM033R11C222KA88#	
		V=D	3300pF	±10%	GRM033R11C332KA88#	
		X5R	10000pF	±10%	GRM033R61C103KA12#	
			0.4 5	±20%	GRM033R61C103MA12#	
			0.1µF	±10%	GRM033R61C104KE84#	Derating
			0000-5	±20%	GRM033R61C104ME84#	Derating
		В	2200pF	±10%	GRM033B31C222KA87#	
			3300pF	±20%	GRM033B31C222MA87#	
			3300pr	±10%	GRM033B31C332KA87# GRM033B31C332MA87#	
			10000pF	±20% ±10%	GRM033B31C103KA12#	
			Тоооорі	±20%	GRM033B31C103MA12#	
			0.1µF	±10%	GRM033B31C104KE84#	Derating
			υ. τρι	±20%	GRM033B31C104ME84#	Derating
	10Vdc	X7R	4700pF	±10%	GRM033R71A472KA01#	Solution
	10100	////	170001	±20%	GRM033R71A472MA01#	
			6800pF	±10%	GRM033R71A682KA01#	
			оссор.	±20%	GRM033R71A682MA01#	
			10000pF	±10%	GRM033R71A103KA01#	
			Тоосорі	±20%	GRM033R71A103MA01#	
		R	4700pF	±10%	GRM033R11A472KA01#	
				±20%	GRM033R11A472MA01#	
			6800pF	±10%	GRM033R11A682KA01#	
			- 1:	±20%	GRM033R11A682MA01#	
			10000pF	±10%	GRM033R11A103KA01#	
			'	±20%	GRM033R11A103MA01#	
		X5R	4700pF	±10%	GRM033R61A472KA01#	
			Part nun	nber # indic	cates the package specification	code.



(→ **■** 0.6×0.3mm)

$(\rightarrow \blacksquare 0$.6×0.3r	nm)				
T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number	
0.33mm	10Vdc	X5R	4700pF	±20%	GRM033R61A472MA01#	
			6800pF	±10%	GRM033R61A682KA01#	
				±20%	GRM033R61A682MA01#	
			10000pF	±10%	GRM033R61A103KA01#	
				±20%	GRM033R61A103MA01#	
			12000pF	±10%	GRM033R61A123KE84#	
				±20%	GRM033R61A123ME84#	
			15000pF	±10%	GRM033R61A153KE84#	
				±20%	GRM033R61A153ME84#	
			18000pF	±10%	GRM033R61A183KE84#	
				±20%	GRM033R61A183ME84#	\vdash
			22000pF	±10%	GRM033R61A223KE84#	
				±20%	GRM033R61A223ME84#	
			27000pF	±10%	GRM033R61A273KE84#	
			2700001	±20%	GRM033R61A273ME84#	<u> </u>
			33000pF	±10%	GRM033R61A333KE84#	
			33000pi			
			00000-5	±20%	GRM033R61A333ME84#	_
			39000pF	±10%	GRM033R61A393KE84#	-
				±20%	GRM033R61A393ME84#	
			47000pF	±10%	GRM033R61A473KE84#	
				±20%	GRM033R61A473ME84#	
			68000pF	±10%	GRM033R61A683KE84#	
				±20%	GRM033R61A683ME84#	
			0.1µF	±10%	GRM033R61A104KE84#	<u> </u>
				±20%	GRM033R61A104ME84#	<u></u>
			0.22µF	±20%	GRM033R61A224ME90#	Derating
		В	4700pF	±10%	GRM033B11A472KA01#	
				±20%	GRM033B11A472MA01#	
			6800pF	±10%	GRM033B11A682KA01#	
				±20%	GRM033B11A682MA01#	
			10000pF	±10%	GRM033B11A103KA01#	
				±20%	GRM033B11A103MA01#	
			12000pF	±10%	GRM033B31A123KE84#	
				±20%	GRM033B31A123ME84#	
			15000pF	±10%	GRM033B31A153KE84#	
				±20%	GRM033B31A153ME84#	
			18000pF	±10%	GRM033B31A183KE84#	
				±20%	GRM033B31A183ME84#	
			22000pF	±10%	GRM033B31A223KE84#	
				±20%	GRM033B31A223ME84#	
			27000pF	±10%	GRM033B31A273KE84#	
				±20%	GRM033B31A273ME84#	
			33000pF	±10%	GRM033B31A333KE84#	
				±20%	GRM033B31A333ME84#	
			39000pF	±10%	GRM033B31A393KE84#	
				±20%	GRM033B31A393ME84#	
			47000pF	±10%	GRM033B31A473KE84#	
			.	±20%	GRM033B31A473ME84#	
			68000pF	±10%	GRM033B31A683KE84#	
				±20%	GRM033B31A683ME84#	
			0.1µF	±10%	GRM033B31A104KE84#	
				±20%	GRM033B31A104ME84#	
	6.3Vdc	X7R	4700pF	±10%	GRM033R70J472KA01#	_
	3.0 4 40	7,711	6800pF	±10%	GRM033R70J682KA01#	
			JOUUPP	±1070	GI INIUSSITI USUOZNAU I#	<u> </u>

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number		
0.33mm	6.3Vdc	X7R	10000pF	±10%	GRM033R70J103KA01#		
		R	4700pF	±10%	GRM033R10J472KA01#		
			6800pF	±10%	GRM033R10J682KA01#		
			10000pF	±10%	GRM033R10J103KA01#		
		X6S	15000pF	±10%	GRM033C80J153KE01#		
				±20%	GRM033C80J153ME01#		
			22000pF	±10%	GRM033C80J223KE01#		
				±20%	GRM033C80J223ME01#		
			33000pF	±10%	GRM033C80J333KE01#		
				±20%	GRM033C80J333ME01#		
			47000pF	±10%	GRM033C80J473KE19#		
				±20%	GRM033C80J473ME19#		
			68000pF	±10%	GRM033C80J683KE84#	Derating	
				±20%	GRM033C80J683ME84#	Derating	
			0.1µF	±10%	GRM033C80J104KE84#	Derating	
				±20%	GRM033C80J104ME84#	Derating	
			0.22µF	±20%	GRM033C80J224ME90#	Derating	
		X5R	10000pF	±10%	GRM033R60J103KA01#		
				15000pF	±10%	GRM033R60J153KE01#	
				±20%	GRM033R60J153ME01#		
			22000pF	±10%	GRM033R60J223KE01#		
				±20%	GRM033R60J223ME01#		
			33000pF	±10%	GRM033R60J333KE01#		
				±20%	GRM033R60J333ME01#		
			47000pF	±10%	GRM033R60J473KE19#		
				±20%	GRM033R60J473ME19#		
			0.22µF	±20%	GRM033R60J224ME90#		
		В	4700pF	±10%	GRM033B10J472KA01#		
			6800pF	±10%	GRM033B10J682KA01#		
			10000pF	±10%	GRM033B10J103KA01#		
			15000pF	±10%	GRM033B10J153KE01#		
				±20%	GRM033B10J153ME01#		
			22000pF	±10%	GRM033B10J223KE01#		
				±20%	GRM033B10J223ME01#		
			33000pF	±10%	GRM033B10J333KE01#		
				±20%	GRM033B10J333ME01#		
			47000pF	±10%	GRM033B30J473KE18#		
				±20%	GRM033B30J473ME18#		
	4Vdc	X6S	0.22µF	±20%	GRM033C80G224ME90#		

■ 1.0×0.5mm

T max.	Rated Voltage	TC Code	Сар.	Tol.	Part Number	
0.22mm	10Vdc	X5R	0.1µF	±10%	GRM152R61A104KE19#	Derating
				±20%	GRM152R61A104ME19#	Derating
			0.22µF	±10%	GRM152R61A224KE19#	Derating
				±20%	GRM152R61A224ME19#	Derating
		В	0.1µF	±10%	GRM152B31A104KE19#	Derating
				±20%	GRM152B31A104ME19#	Derating
			0.22µF	±10%	GRM152B31A224KE19#	Derating
				±20%	GRM152B31A224ME19#	Derating
	6.3Vdc	X6S	0.1µF	±10%	GRM152C80J104KE19#	Derating
				±20%	GRM152C80J104ME19#	Derating

Part number # indicates the package specification code.



(→ **1.**0×0.5mm)

(→ ■ 1	.0×0.5ı	mm)				
T max.	Rated Voltage	TC Code	Сар.	Tol.	Part Number	
0.22mm	6.3Vdc	X6S	0.22µF	±10%	GRM152C80J224KE19#	Derating
				±20%	GRM152C80J224ME19#	Derating
		X5R	0.1µF	±10%	GRM152R60J104KE19#	
				±20%	GRM152R60J104ME19#	
			0.22µF	±10%	GRM152R60J224KE19#	
				±20%	GRM152R60J224ME19#	
			0.47µF	±20%	GRM152R60J474ME15#	Derating
		В	0.1µF	±10%	GRM152B30J104KE19#	
				±20%	GRM152B30J104ME19#	
			0.22µF	±10%	GRM152B30J224KE19#	<u> </u>
				±20%	GRM152B30J224ME19#	<u> </u>
			0.47µF	±20%	GRM152B30J474ME15#	Derating
	4Vdc	X7T	0.1µF	±10%	GRM152D70G104KE15#	Derating
				±20%	GRM152D70G104ME15#	Derating
			0.22µF	±10%	GRM152D70G224KE15#	Derating
				±20%	GRM152D70G224ME15#	Derating
		X6S	0.1µF	±10%	GRM152C80G104KE19#	
				±20%	GRM152C80G104ME19#	
			0.22µF	±10%	GRM152C80G224KE19#	
				±20%	GRM152C80G224ME19#	
		X6T	0.47µF	±20%	GRM152D80G474ME15#	
	2.5Vdc	X7T	0.1µF	±10%	GRM152D70E104KE19#	
				±20%	GRM152D70E104ME19#	
			0.22µF	±10%	GRM152D70E224KE19#	
				±20%	GRM152D70E224ME19#	
0.3mm	50Vdc	X7R	220pF	±10%	GRM15XR71H221KA86#	
			330pF	±10%	GRM15XR71H331KA86#	
			470pF	±10%	GRM15XR71H471KA86#	
			680pF	±10%	GRM15XR71H681KA86#	
			1000pF	±10%	GRM15XR71H102KA86#	
			1500pF	±10%	GRM15XR71H152KA86#	
		R	220pF	±10%	GRM15XR11H221KA86#	
			330pF	±10%	GRM15XR11H331KA86#	
			470pF	±10%	GRM15XR11H471KA86#	
			680pF	±10%	GRM15XR11H681KA86#	
			1000pF	±10%	GRM15XR11H102KA86#	
			1500pF	±10%	GRM15XR11H152KA86#	
		В	220pF	±10%	GRM15XB11H221KA86#	
				±20%	GRM15XB11H221MA86#	
			330pF	±10%	GRM15XB11H331KA86#	
				±20%	GRM15XB11H331MA86#	
			470pF	±10%	GRM15XB11H471KA86#	
			·	±20%	GRM15XB11H471MA86#	+-
			680pF	±10%	GRM15XB11H681KA86#	_
				±20%	GRM15XB11H681MA86#	
			1000pF	±10%	GRM15XB11H102KA86#	
			1-	±20%	GRM15XB11H102MA86#	
			1500pF	±10%	GRM15XB11H152KA86#	
			10.	±20%	GRM15XB11H152MA86#	_
	25Vdc	X7R	2200pF	±10%	GRM15XR71E222KA86#	+
			p	±20%	GRM15XR71E222MA86#	+
		В	2200pF	±10%	GRM15XB11E222KA86#	_
			opi	±20%	GRM15XB11E222MA86#	_
	16Vdc	X7R	3300pF	±10%	GRM15XB71C332KA86#	+-
	10 vac	7/ N	JJJJJ	±1076	GINITOANI TOSSENAGO#	

Т	Rated	тс	0	T-1	Deat Neurober	
max.	Voltage	Code	Сар.	Tol.	Part Number	
0.3mm	16Vdc	X7R	3300pF	±20%	GRM15XR71C332MA86#	
			4700pF	±10%	GRM15XR71C472KA86#	
				±20%	GRM15XR71C472MA86#	<u> </u>
			6800pF	±10%	GRM15XR71C682KA86#	<u> </u>
				±20%	GRM15XR71C682MA86#	<u> </u>
			10000pF	±10%	GRM15XR71C103KA86#	<u> </u>
				±20%	GRM15XR71C103MA86#	<u> </u>
		В	3300pF	±10%	GRM15XB11C332KA86#	<u> </u>
				±20%	GRM15XB11C332MA86#	<u> </u>
			4700pF	±10%	GRM15XB11C472KA86#	<u> </u>
				±20%	GRM15XB11C472MA86#	
			6800pF	±10%	GRM15XB11C682KA86#	
				±20%	GRM15XB11C682MA86#	
			10000pF	±10%	GRM15XB11C103KA86#	<u> </u>
				±20%	GRM15XB11C103MA86#	<u> </u>
	10Vdc	X5R	15000pF	±10%	GRM15XR61A153KA86#	
				±20%	GRM15XR61A153MA86#	
			22000pF	±10%	GRM15XR61A223KA86#	
				±20%	GRM15XR61A223MA86#	
			33000pF	±10%	GRM15XR61A333KA86#	
				±20%	GRM15XR61A333MA86#	
0.33mm	10Vdc	X5R	1.0µF	±20%	GRM153R61A105ME95#	Derating
		В	1.0µF	±20%	GRM153B31A105ME95#	Derating
	6.3Vdc	X6T	1.0µF	±20%	GRM153D80J105ME95#	Derating
		X5R	1.0µF	±20%	GRM153R60J105ME95#	
		В	1.0µF	±20%	GRM153B30J105ME95#	
	4Vdc	X6T	1.0µF	±20%	GRM153D80G105ME95#	
		X5R	1.0µF	±20%	GRM153R60G105ME95#	
0.55mm	100Vdc	X7R	220pF	±10%	GRM155R72A221KA01#	
			330pF	±10%	GRM155R72A331KA01#	
			470pF	±10%	GRM155R72A471KA01#	
			680pF	±10%	GRM155R72A681KA01#	
			1000pF	±10%	GRM155R72A102KA01#	
			1500pF	±10%	GRM155R72A152KA01#	
			2200pF	±10%	GRM155R72A222KA01#	
			3300pF	±10%	GRM155R72A332KA01#	
			4700pF	±10%	GRM155R72A472KA01#	
	50Vdc	X7R	220pF	±10%	GRM155R71H221KA01#	
			330pF	±10%	GRM155R71H331KA01#	
			470pF	±10%	GRM155R71H471KA01#	
			680pF	±10%	GRM155R71H681KA01#	
			1000pF	±10%	GRM155R71H102KA01#	
			1500pF	±10%	GRM155R71H152KA01#	
			2200pF	±10%	GRM155R71H222KA01#	
			3300pF	±10%	GRM155R71H332KA01#	
			4700pF	±10%	GRM155R71H472KA01#	
			6800pF	±10%	GRM155R71H682KA88#	
			10000pF	±10%	GRM155R71H103KA88#	
			15000pF	±10%	GRM155R71H153KA12#	
			22000pF	±10%	GRM155R71H223KA12#	
			0.1µF	±10%	GRM155R71H104KE14#	
			'	±20%	GRM155R71H104ME14#	
		X7S	33000pF	±10%	GRM155C71H333KE19#	
			'	±20%	GRM155C71H333ME19#	
	1		Part nun		cates the package specification	code.



(→ **■** 1.0×0.5mm)

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number	
0.55mm	50Vdc	X7S	47000pF	±10%	GRM155C71H473KE19#	
				±20%	GRM155C71H473ME19#	
			68000pF	±10%	GRM155C71H683KE19#	
				±20%	GRM155C71H683ME19#	
		R	220pF	±10%	GRM155R11H221KA01#	
			330pF	±10%	GRM155R11H331KA01#	
			470pF	±10%	GRM155R11H471KA01#	
			680pF	±10%	GRM155R11H681KA01#	
			1000pF	±10%	GRM155R11H102KA01#	
			1500pF	±10%	GRM155R11H152KA01#	
			2200pF	±10%	GRM155R11H222KA01#	
			3300pF	±10%	GRM155R11H332KA01#	
			4700pF	±10%	GRM155R11H472KA01#	
			6800pF	±10%	GRM155R11H682KA88#	
			10000pF	±10%	GRM155R11H103KA88#	
		X6S	0.1µF	±10%	GRM155C81H104KE14#	
				±20%	GRM155C81H104ME14#	
		X5R	1000pF	±10%	GRM155R61H102KA01#	
		7.0.1	2200pF	±10%	GRM155R61H222KA01#	
			4700pF	±10%	GRM155R61H472KA01#	
			33000pF	±10%	GRM155R61H333KE19#	
			ососорі	±20%	GRM155R61H333ME19#	
			47000pF	±10%	GRM155R61H473KE19#	
			47 000pi	±20%	GRM155R61H473ME19#	
			68000pF	±10%	GRM155R61H683KE19#	
			ооооорі	±20%	GRM155R61H683ME19#	
			0.1µF	±10%	GRM155R61H104KE14#	
		В	σ. τμι	±20%	GRM155R61H104ME14#	
			B 220pF	±10%	GRM155B11H221KA01#	
			B	В	22001	±20%
			330pF	±10%	GRM155B11H331KA01#	
			330pi	±20%	GRM155B11H331MA01#	
			470pE	±10%		
			470pF	±20%	GRM155B11H471KA01# GRM155B11H471MA01#	
			690nE	±10%	GRM155B11H681KA01#	
			680pF		GRM155B11H681MA01#	
			1000pF	±20%	GRM155B11H102KA01#	
			ТОООРГ			
			1500~	±20%	GRM155B11H102MA01# GRM155B11H152KA01#	
			1500pF	±10%		
			2200~	±20%	GRM155B11H152MA01#	
			2200pF	±10%	GRM155B11H222KA01#	
			0000-5	±20%	GRM155B11H222MA01#	
			3300pF	±10%	GRM155B11H332KA01#	
			4700.5	±20%	GRM155B11H332MA01#	
			4700pF	±10%	GRM155B11H472KA01#	
			0000 -	±20%	GRM155B11H472MA01#	
			6800pF	±10%	GRM155B31H682KA88#	
			10000	±20%	GRM155B31H682MA88#	
			10000pF	±10%	GRM155B31H103KA88#	
				±20%	GRM155B31H103MA88#	
			15000pF	±10%	GRM155B31H153KA12#	
				±20%	GRM155B31H153MA12#	
			22000pF	±10%	GRM155B31H223KA12#	
	I	1	1	±20%	GRM155B31H223MA12#	

0.55mm 50Vdc B 0.1μF ±10% GRM155B31H104KE ±20% GRM155B31H104ME	
±200/ CDM155D31U104M5	14#
±20% GRW133031H104WE	14#
25Vdc X7R 6800pF ±10% GRM155R71E682KA	01#
10000pF ±10% GRM155R71E103KA	01#
15000pF ±10% GRM155R71E153KA	61#
22000pF ±10% GRM155R71E223KA	61#
33000pF ±10% GRM155R71E333KA	88#
47000pF ±10% GRM155R71E473KA	88#
0.1μF ±10% GRM155R71E104KE	14#
±20% GRM155R71E104ME	14#
R 6800pF ±10% GRM155R11E682KA	01#
10000pF ±10% GRM155R11E103KA	01#
15000pF ±10% GRM155R11E153KA	61#
22000pF ±10% GRM155R11E223KA	61#
33000pF ±10% GRM155R11E333KA	88#
47000pF ±10% GRM155R11E473KA	88#
X6S 68000pF ±10% GRM155C81E683KA	12#
0.1μF ±10% GRM155C81E104KA	12#
±20% GRM155C81E104MA	12#
X5R 68000pF ±10% GRM155R61E683KA	87#
±20% GRM155R61E683MA	87#
0.1μF ±10% GRM155R61E104KA	87#
±20% GRM155R61E104MA	87#
1.0μF ±10% GRM155R61E105KA	12# Derating
±20% GRM155R61E105MA	12# Derating
B 4700pF ±10% GRM155B11E472KA	01#
6800pF ±10% GRM155B11E682KA	01#
10000pF ±10% GRM155B11E103KA	01#
±20% GRM155B11E103MA	01#
15000pF ±10% GRM155B11E153KA	61#
±20% GRM155B11E153MA	61#
22000pF ±10% GRM155B11E223KA	61#
±20% GRM155B11E223MA	61#
33000pF ±10% GRM155B31E333KA	87#
±20% GRM155B31E333MA	87#
47000pF ±10% GRM155B31E473KA	87#
±20% GRM155B31E473MA	87#
68000pF ±10% GRM155B31E683KA	87#
±20% GRM155B31E683MA	87#
0.1µF ±10% GRM155B31E104KA	
±20% GRM155B31E104MA	
1.0μF ±10% GRM155B31E105KA	
±20% GRM155B31E105MA	
16Vdc X7R 33000pF ±10% GRM155R71C333KA	
47000pF ±10% GRM155R71C473KA	
68000pF ±10% GRM155R71C683KA	
0.15μF ±10% GRM155R71C154KA	
0.22μF ±10% GRM155R71C224KA	
R 33000pF ±10% GRM155R11C333KA	
47000pF ±10% GRM155R11C473KA	
68000pF ±10% GRM155R11C683KA	
X5R 33000pF ±10% GRM155R61C333KA	
47000pF ±10% GRM155R61C473KA	01#
68000pF ±10% GRM155R61C683KA	88#

(→ **1.**0×0.5mm)

(→ ■ 1	16.0×0.	mm)				
T max.	Rated Voltage	TC Code	Сар.	Tol.	Part Number	
0.55mm	16Vdc	X5R	1.0µF	±10%	GRM155R61C105KA12#	
				±20%	GRM155R61C105MA12#	
		В	33000pF	±10%	GRM155B11C333KA01#	
			47000pF	±10%	GRM155B11C473KA01#	
			68000pF	±10%	GRM155B31C683KA87#	
			1.0µF	±10%	GRM155B31C105KA12#	
				±20%	GRM155B31C105MA12#	
	10Vdc	X7R	68000pF	±10%	GRM155R71A683KA01#	
				±20%	GRM155R71A683MA01#	
		R	68000pF	±10%	GRM155R11A683KA01#	
				±20%	GRM155R11A683MA01#	
		X6S	1.0µF	±10%	GRM155C81A105KA12#	T
				±20%	GRM155C81A105MA12#	T
		X5R	0.15µF	±10%	GRM155R61A154KE19#	
				±20%	GRM155R61A154ME19#	
			0.22µF	±10%	GRM155R61A224KE19#	\vdash
				±20%	GRM155R61A224ME19#	_
			0.33µF	±10%	GRM155R61A334KE15#	-
			0.00µі	±20%	GRM155R61A334ME15#	
			0.47µF	±10%	GRM155R61A474KE15#	_
			0.47μι	±20%	GRM155R61A474ME15#	-
			0.68µF	±10%	GRM155R61A684KE15#	-
			υ.οομΓ			-
			0.005	±20%	GRM155R61A684ME15#	Davatina
			2.2µF	±10%	GRM155R61A225KE95#	Derating
		В	0.455	±20%	GRM155R61A225ME95#	Derating
		В	0.15µF	±10%	GRM155B31A154KE18#	_
				±20%	GRM155B31A154ME18#	
			0.22µF	±10%	GRM155B31A224KE18#	
				±20%	GRM155B31A224ME18#	
			0.33µF	±10%	GRM155B31A334KE14#	
				±20%	GRM155B31A334ME14#	_
			0.47µF	±10%	GRM155B31A474KE14#	
				±20%	GRM155B31A474ME14#	
			0.68µF	±10%	GRM155B31A684KE15#	
				±20%	GRM155B31A684ME15#	<u></u>
			2.2µF	±10%	GRM155B31A225KE95#	Derating
				±20%	GRM155B31A225ME95#	Derating
	6.3Vdc	X7R	1.0µF	±10%	GRM155R70J105KA12#	Derating
				±20%	GRM155R70J105MA12#	Derating
		X6S	0.15µF	±10%	GRM155C80J154KE01#	
				±20%	GRM155C80J154ME01#	
			0.22µF	±10%	GRM155C80J224KE01#	
				±20%	GRM155C80J224ME01#	
			0.33µF	±10%	GRM155C80J334KE01#	
				±20%	GRM155C80J334ME01#	
			0.47µF	±10%	GRM155C80J474KE19#	
				±20%	GRM155C80J474ME19#	
			2.2µF	±10%	GRM155C80J225KE95#	Derating
				±20%	GRM155C80J225ME95#	Derating
		X5R	0.15µF	±10%	GRM155R60J154KE01#	
				±20%	GRM155R60J154ME01#	
			0.22µF	±10%	GRM155R60J224KE01#	
				±20%	GRM155R60J224ME01#	
			0.33µF	±10%	GRM155R60J334KE01#	
	I.	1				

	T max.	Rated Voltage	TC Code	Сар.	Tol.	Part Number	
+20% GRM155R60J474ME19#	0.55mm	6.3Vdc	X5R	0.33µF	±20%	GRM155R60J334ME01#	
0.68μF				0.47µF	±10%	GRM155R60J474KE19#	
±20% GRM155R60J225KE95# ±20% GRM155R60J225KE95# ±20% GRM155R60J225KE95# ±20% GRM155B10J154KE01# ±20% GRM155B10J154ME01# ±20% GRM155B10J224ME01# ±20% GRM155B10J334KE01# ±20% GRM155B10J334ME01# ±20% GRM155B30J474ME18# ±20% GRM155B30J474ME18# ±20% GRM155B30J474ME18# ±20% GRM155B30J684KE18# ±20% GRM155B30J25KE95# ±20% GRM155B30J25KE95# ±20% GRM155B30J25KE95# ±20% GRM155B30J25KE95# ±20% GRM155B30J25KE95# ±20% GRM155B30J25ME95# ±20% GRM155R70G105MA12# ±20% GRM155C80G154ME01# ±20% GRM155C80G154ME01# ±20% GRM155C80G224ME01# ±20% GRM155C80G334ME01# ±20% GRM155C80G334ME01# ±20% GRM155C80G334ME01# ±20% GRM155C80G334ME01# ±20% GRM155C80G474ME01# ±20% GRM155D80G225KE95# ±20%					±20%	GRM155R60J474ME19#	
2.2μF				0.68µF	±10%	GRM155R60J684KE19#	
±20% GRM155R60J225ME95# ±10% GRM155B10J154KE01# ±20% GRM155B10J154KE01# ±20% GRM155B10J224KE01# ±20% GRM155B10J224KE01# ±20% GRM155B10J334KE01# ±20% GRM155B10J334KE01# ±20% GRM155B30J334ME01# 0.47μF					±20%	GRM155R60J684ME19#	
B 0.15μF ±10% GRM155B10J154KE01# ±20% GRM155B10J154ME01# ±20% GRM155B10J224KE01# ±20% GRM155B10J224KE01# ±20% GRM155B10J334KE01# ±20% GRM155B10J334KE01# ±20% GRM155B10J334ME01# ±20% GRM155B30J474KE18# ±20% GRM155B30J474KE18# ±20% GRM155B30J474ME18# ±20% GRM155B30J25KE95# ±20% GRM155B30J25KE95# ±20% GRM155B30J225KE95# ±20% GRM155B30J225KE95# ±20% GRM155B30J225ME95# ±20% GRM155R70G105KA12# ±20% GRM155C80G154KE01# ±20% GRM155C80G154KE01# ±20% GRM155C80G224KE01# ±20% GRM155C80G334KE01# ±20% GRM155C80G334KE01# ±20% GRM155C80G334KE01# ±20% GRM155C80G334KE01# ±20% GRM155C80G474KE01# ±20% GRM155C80G474KE01# ±20% GRM155C80G474KE01# ±20% GRM155C80G474ME01# ±20% GRM155D80G225KE95# ±20% GRM155D80G225KE95# ±20% GRM155D80G225KE95# ±20% GRM155D80G225KE95# ±20% GRM155D80G225KE95# ±20% GRM155D80G425KE95# ±20% GRM155D80G425KE95# ±20% GRM155D80G425KE95# ±20% GRM155D80G425KE95# ±20% GRM155D80G4475ME47# ©##################################				2.2µF	±10%	GRM155R60J225KE95#	
±20% GRM155B10J154ME01# ±20% GRM155B10J224KE01# ±20% GRM155B10J224ME01# ±20% GRM155B10J334KE01# ±20% GRM155B10J334ME01# ±20% GRM155B30J474KE18# ±20% GRM155B30J474ME18# ±20% GRM155B30J684KE18# ±20% GRM155B30J684ME18# ±20% GRM155B30J225KE95# ±20% GRM155B30J225KE95# ±20% GRM155B30J225KE95# ±20% GRM155R70G105KA12# ±20% GRM155R70G105MA12# ±20% GRM155C80G154KE01# ±20% GRM155C80G154ME01# ±20% GRM155C80G224KE01# ±20% GRM155C80G334KE01# ±20% GRM155C80G334KE01# ±20% GRM155C80G334ME01# ±20% GRM155C80G34ME01# ±20% GRM155C80G474ME01# ±20% GRM155C80G474ME01# ±20% GRM155C80G474ME01# ±20% GRM155D80G225KE95# ±20% GRM155D80G225KE95# ±20% GRM155D80G225KE95# ±20% GRM155D80G225ME95# ±20% GRM155D80G225ME95# ±20% GRM155D80G225ME95#					±20%	GRM155R60J225ME95#	
0.22μF			В	0.15µF	±10%	GRM155B10J154KE01#	
±20% GRM155B10J224ME01# 0.33μF					±20%	GRM155B10J154ME01#	
0.33μF ±10% GRM155B10J334KE01# ±20% GRM155B10J334ME01# ±20% GRM155B30J474KE18# ±20% GRM155B30J474ME18# ±20% GRM155B30J684KE18# ±20% GRM155B30J684ME18# ±20% GRM155B30J225KE95# ±20% GRM155B30J225KE95# ±20% GRM155B30J225ME95# ±20% GRM155B30J225ME95# ±20% GRM155B30J225ME95# ±20% GRM155R70G105KA12# ±20% GRM155C80G154KE01# ±20% GRM155C80G154ME01# ±20% GRM155C80G224KE01# ±20% GRM155C80G224ME01# ±20% GRM155C80G334ME01# ±20% GRM155C80G334ME01# ±20% GRM155C80G374KE01# ±20% GRM155C80G474KE01# ±20% GRM155C80G474ME01# ±20% GRM155C80G474ME01# ±20% GRM155C80G474ME01# ±20% GRM155C80G474ME01# ±20% GRM155D80G225KE95# ±20% GRM155D80G225ME95# ±20% GRM155D80G475ME47# ±40% GRM155D80G474ME01# ±40% GRM155D80G474ME01# ±40% GRM155D80G474ME01# ±40% GRM155D80G4				0.22µF	±10%	GRM155B10J224KE01#	
±20% GRM155B10J334ME01# 0.47μF					±20%	GRM155B10J224ME01#	
0.47μF				0.33µF	±10%	GRM155B10J334KE01#	
±20% GRM155B30J474ME18# 0.68μF					±20%	GRM155B10J334ME01#	
0.68μF ±10% GRM155B30J684KE18# ±20% GRM155B30J684ME18# ±20% GRM155B30J225KE95# ±20% GRM155B30J225ME95# ±20% GRM155B30J225ME95# ±20% GRM155R70G105KA12# ±20% GRM155R70G105MA12# ±20% GRM155C80G154KE01# ±20% GRM155C80G154KE01# ±20% GRM155C80G224KE01# ±20% GRM155C80G224ME01# ±20% GRM155C80G334ME01# ±20% GRM155C80G334ME01# ±20% GRM155C80G374KE01# ±20% GRM155C80G474KE01# ±20% GRM155C80G474KE01# ±20% GRM155C80G474ME01# ±20% GRM155C80G474ME01# ±20% GRM155D80G225KE95# ±20% GRM155D80G225ME95# ±20% GRM155D80G474ME04# ±40% GRM155D80G4				0.47µF	±10%	GRM155B30J474KE18#	
±20% GRM155B30J684ME18# 2.2μF					±20%	GRM155B30J474ME18#	
2.2μF ±10% GRM155B30J225KE95# ±20% GRM155B30J225KE95# ±20% GRM155B30J225ME95# ±20% GRM155R70G105KA12# ±20% GRM155C80G154KE01# ±20% GRM155C80G154KE01# ±20% GRM155C80G224KE01# ±20% GRM155C80G224KE01# ±20% GRM155C80G334KE01# ±20% GRM155C80G334KE01# ±20% GRM155C80G334KE01# ±20% GRM155C80G474KE01# ±20% GRM155C80G474KE01# ±20% GRM155C80G474ME01# ±20% GRM155D80G225KE95# ±20% GRM155D80G225KE95# ±20% GRM155D80G225ME95# ±20% GRM155D80G475ME47# ±20% GRM155D80G47				0.68µF	±10%	GRM155B30J684KE18#	
±20% GRM155B30J225ME95# 4Vdc X7R					±20%	GRM155B30J684ME18#	
AVdc X7R				2.2µF	±10%	GRM155B30J225KE95#	
±20% GRM155R70G105MA12# X6S 0.15μF ±10% GRM155C80G154KE01# ±20% GRM155C80G154ME01# ±20% GRM155C80G224KE01# ±20% GRM155C80G224KE01# ±20% GRM155C80G334KE01# ±20% GRM155C80G334ME01# ±20% GRM155C80G374KE01# ±20% GRM155C80G474KE01# ±20% GRM155C80G474ME01# ±20% GRM155D80G225KE95# ±20% GRM155D80G225ME95#					±20%	GRM155B30J225ME95#	
X6S		4Vdc	X7R	1.0µF	±10%	GRM155R70G105KA12#	
±20% GRM155C80G154ME01# 0.22μF					±20%	GRM155R70G105MA12#	
0.22μF ±10% GRM155C80G224KE01# ±20% GRM155C80G224ME01# ±20% GRM155C80G324ME01# ±20% GRM155C80G334ME01# ±20% GRM155C80G334ME01# ±20% GRM155C80G474KE01# ±20% GRM155C80G474ME01# ±20% GRM155D80G225KE95# ±20% GRM155D80G225ME95# ±20% GRM155D80G225ME95# E20% GRM155D80G225ME47# ERRIGION GRM155R60J475ME47# ERRIGION GRM155R60J475ME47#			X6S	0.15µF	±10%	GRM155C80G154KE01#	
±20% GRM155C80G224ME01# 0.33μF					±20%	GRM155C80G154ME01#	
0.33μF ±10% GRM155C80G334KE01# ±20% GRM155C80G334ME01# ±20% GRM155C80G474KE01# ±20% GRM155C80G474ME01# ±20% GRM155C80G474ME01# ±20% GRM155D80G225KE95# ±20% GRM155D80G225ME95# ±20% GRM155D80G225ME95# ±20% GRM155R60J475ME47# □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □				0.22µF	±10%	GRM155C80G224KE01#	
±20% GRM155C80G334ME01# 0.47μF					±20%	GRM155C80G224ME01#	
0.47μF ±10% GRM155C80G474KE01# ±20% GRM155C80G474ME01# ±20% GRM155D80G225KE95# ±20% GRM155D80G225ME95# 0.6mm 6.3Vdc X5R 4.7μF ±20% GRM155R60J475ME47# Dealing				0.33µF	±10%	GRM155C80G334KE01#	
±20% GRM155C80G474ME01# X6T 2.2μF ±10% GRM155D80G225KE95# ±20% GRM155D80G225ME95# 0.6mm 6.3Vdc X5R 4.7μF ±20% GRM155R60J475ME47#					±20%	GRM155C80G334ME01#	
X6T 2.2μF ±10% GRM155D80G225KE95# ±20% GRM155D80G225ME95# 0.6mm 6.3Vdc X5R 4.7μF ±20% GRM155R60J475ME47#				0.47µF	±10%	GRM155C80G474KE01#	
±20% GRM155D80G225ME95# 0.6mm 6.3Vdc X5R 4.7μF ±20% GRM155R60J475ME47# Derailing					±20%	GRM155C80G474ME01#	
0.6mm 6.3Vdc X5R 4.7µF ±20% GRM155R60J475ME47#			X6T	2.2µF	±10%	GRM155D80G225KE95#	
					±20%	GRM155D80G225ME95#	
	0.6mm	6.3Vdc	X5R	4.7µF	±20%	GRM155R60J475ME47#	Derating
B 4.7μF ±20% GRM155B30J475ME47 # Derating			В	4.7µF	±20%	GRM155B30J475ME47#	Derating
4Vdc X5R 4.7μF ±20% GRM155R60G475ME47#		4Vdc	X5R	4.7µF	±20%	GRM155R60G475ME47#	
B 4.7µF ±20% GRM155B30G475ME47#			В	4.7µF	±20%	GRM155B30G475ME47#	
		2.5Vdc	X6T		±20%	GRM155D80E475ME47#	Derating
0.7mm 4Vdc X5R 10μF ±20% GRM155R60G106ME44#	0.7mm	4Vdc	X5R	10µF	±20%	GRM155R60G106ME44#	
2.5Vdc X5R 10μF ±20% GRM155R60E106ME16#		2.5Vdc	X5R	-	±20%	GRM155R60E106ME16#	

■ 1.6×0.8mm

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number	
0.5mm	25Vdc	X5R	1.0µF	±10%	GRM185R61E105KA12#	Derating
				±20%	GRM185R61E105MA12#	Derating
		В	1.0µF	±10%	GRM185B31E105KA12#	Derating
				±20%	GRM185B31E105MA12#	Derating
	16Vdc	X5R	1.0µF	±10%	GRM185R61C105KE44#	
				±20%	GRM185R61C105ME44#	
		В	1.0µF	±10%	GRM185B31C105KE43#	
				±20%	GRM185B31C105ME43#	
0.9mm	100Vdc	X7R	220pF	±10%	GRM188R72A221KA01#	
			330pF	±10%	GRM188R72A331KA01#	
			470pF	±10%	GRM188R72A471KA01#	

Part number # indicates the package specification code.

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number	
0.9mm	100Vdc	X7R	680pF	±10%	GRM188R72A681KA01#	
			1000pF	±10%	GRM188R72A102KA01#	
			1500pF	±10%	GRM188R72A152KA01#	
			2200pF	±10%	GRM188R72A222KA01#	
			3300pF	±10%	GRM188R72A332KA01#	
			4700pF	±10%	GRM188R72A472KA01#	
			6800pF	±10%	GRM188R72A682KA01#	
			10000pF	±10%	GRM188R72A103KA01#	
			15000pF	±10%	GRM188R72A153KAC4#	
				±20%	GRM188R72A153MAC4#	
			22000pF	±10%	GRM188R72A223KAC4#	
				±20%	GRM188R72A223MAC4#	
			0.1µF	±10%	GRM188R72A104KA35#	
	50Vdc	X7R	220pF	±10%	GRM188R71H221KA01#	
			330pF	±10%	GRM188R71H331KA01#	
			470pF	±10%	GRM188R71H471KA01#	
			680pF	±10%	GRM188R71H681KA01#	
			1000pF	±10%	GRM188R71H102KA01#	
			1500pF	±10%	GRM188R71H152KA01#	
			2200pF	±10%	GRM188R71H222KA01#	
			3300pF	±10%	GRM188R71H332KA01#	
			4700pF	±10%	GRM188R71H472KA01#	
			6800pF	±10%	GRM188R71H682KA01#	
			10000pF	±10%	GRM188R71H103KA01#	
			15000pF	±10%	GRM188R71H153KA01#	
			22000pF	±10%	GRM188R71H223KA01#	
			33000pF	±10%	GRM188R71H333KA61#	
				47000pF	±10%	GRM188R71H473KA61#
				68000pF	±10%	GRM188R71H683KA93#
			0.1µF	±10%	GRM188R71H104KA93#	
		R	220pF	±10%	GRM188R11H221KA01#	
			330pF	±10%	GRM188R11H331KA01#	
			470pF	±10%	GRM188R11H471KA01#	
			680pF	±10%	GRM188R11H681KA01#	
			1000pF	±10%	GRM188R11H102KA01#	
			1500pF	±10%	GRM188R11H152KA01#	
			2200pF	±10%	GRM188R11H222KA01#	
			3300pF	±10%	GRM188R11H332KA01#	
			4700pF	±10%	GRM188R11H472KA01#	
			6800pF	±10%	GRM188R11H682KA01#	
			10000pF	±10%	GRM188R11H103KA01#	
			15000pF	±10%	GRM188R11H153KA01#	
			22000pF	±10%	GRM188R11H223KA01#	
			33000pF	±10%	GRM188R11H333KA61#	
			47000pF	±10%	GRM188R11H473KA61#	
		68000pF	±10%	GRM188R11H683KA93#		
		X5R	0.1µF	±10%	GRM188R11H104KA93#	
		ACA	1000pF	±10%	GRM188R61H102KA01#	
			2200pF	±10%	GRM188R61H222KA01#	
			4700pF	±10%	GRM188R61H472KA01# GRM188R61H103KA01#	
			10000pF	±10%		
			22000pF 0.22µF	±10%	GRM188R61H223KA01# GRM188R61H224KAC4#	
	l		υ.ΖΖμΓ	±10%	GRIVI 100R0 I FIZZ4KAC4#	

T max.	Rated Voltage	TC Code	Сар.	Tol.	Part Number																
0.9mm	50Vdc	X5R	0.47µF	±20%	GRM188R61H474MA12#																
			1.0µF	±10%	GRM188R61H105KAAL#																
				±20%	GRM188R61H105MAAL#																
		В	220pF	±10%	GRM188B11H221KA01#																
				±20%	GRM188B11H221MA01#																
			330pF	±10%	GRM188B11H331KA01#																
				±20%	GRM188B11H331MA01#																
			470pF	±10%	GRM188B11H471KA01#																
				±20%	GRM188B11H471MA01#																
			680pF	±10%	GRM188B11H681KA01#																
				±20%	GRM188B11H681MA01#																
			1000pF	±10%	GRM188B11H102KA01#																
				±20%	GRM188B11H102MA01#																
			1500pF	±10%	GRM188B11H152KA01#																
				±20%	GRM188B11H152MA01#																
			2200pF	±10%	GRM188B11H222KA01#																
				±20%	GRM188B11H222MA01#																
			3300pF	±10%	GRM188B11H332KA01#																
				±20%	GRM188B11H332MA01#																
			4700pF	±10%	GRM188B11H472KA01#																
				±20%	GRM188B11H472MA01#																
			6800pF	±10%	GRM188B11H682KA01#																
				±20%	GRM188B11H682MA01#																
			10000pF	±10%	GRM188B11H103KA01#																
				±20%	GRM188B11H103MA01#																
			15000pF	±10%	GRM188B11H153KA01#																
				±20%	GRM188B11H153MA01#																
			22000pF	±10%	GRM188B11H223KA01#																
				±20%	GRM188B11H223MA01#																
			33000pF	±10%	GRM188B11H333KA61#																
																			±20%	GRM188B11H333MA61#	
			47000pF	±10%	GRM188B11H473KA61#																
				±20%	GRM188B11H473MA61#																
			68000pF	±10%	GRM188B31H683KA92#																
				±20%	GRM188B31H683MA92#																
			0.1µF	±10%	GRM188B31H104KA92#																
				±20%	GRM188B31H104MA92#																
			0.15µF	±10%	GRM188B31H154KAC4#																
				±20%	GRM188B31H154MAC4#																
			0.22µF	±10%	GRM188B31H224KAC4#																
				±20%	GRM188B31H224MAC4#																
			1.0µF	±10%	GRM188B31H105KAAL#																
				±20%	GRM188B31H105MAAL#																
	25Vdc	X7R	15000pF	±10%	GRM188R71E153KA01#																
			22000pF	±10%	GRM188R71E223KA01#																
				±20%	GRM188R71E223MA01#																
			33000pF	±10%	GRM188R71E333KA01#																
			47000pF	±10%	GRM188R71E473KA01#																
			68000pF	±10%	GRM188R71E683KA01#																
			0.15µF	±10%	GRM188R71E154KA01#																
			0.22µF	±10%	GRM188R71E224KA88#																
			0.47µF	±10%	GRM188R71E474KA12#																
			1.0µF	±10%	GRM188R71E105KA12#																
				±20%	GRM188R71E105MA12#																
			Part nun	nher # indic	cates the package specification c																

(→ ■ 1					
T max.	Rated Voltage	TC Code	Сар.	Tol.	Part Number
0.9mm	25Vdc	R	15000pF	±10%	GRM188R11E153KA01#
			22000pF	±10%	GRM188R11E223KA01#
				±20%	GRM188R11E223MA01#
			33000pF	±10%	GRM188R11E333KA01#
			47000pF	±10%	GRM188R11E473KA01#
			68000pF	±10%	GRM188R11E683KA01#
			0.15µF	±10%	GRM188R11E154KA01#
			0.22µF	±10%	GRM188R11E224KA88#
		X6S	1.0µF	±10%	GRM188C81E105KAAD#
				±20%	GRM188C81E105MAAD#
		X5R	0.1µF	±10%	GRM188R61E104KA01#
			0.22µF	±10%	GRM188R61E224KA88#
			0.47µF	±10%	GRM188R61E474KA12#
			0.47μι	±20%	GRM188R61E474MA12#
			0.600E		GRM188R61E684KA75#
			0.68µF	±10%	
			10	±20%	GRM188R61E684MA75#
			1.0µF	±10%	GRM188R61E105KA12#
				±20%	GRM188R61E105MA12#
			2.2µF	±10%	GRM188R61E225KA12#
				±20%	GRM188R61E225MA12#
		В	2200pF	±10%	GRM188B11E222KA01#
			3300pF	±10%	GRM188B11E332KA01#
			4700pF	±10%	GRM188B11E472KA01#
			6800pF	±10%	GRM188B11E682KA01#
			10000pF	±10%	GRM188B11E103KA01#
				±20%	GRM188B11E103MA01#
			15000pF	±10%	GRM188B11E153KA01#
				±20%	GRM188B11E153MA01#
			22000pF	±10%	GRM188B11E223KA01#
				±20%	GRM188B11E223MA01#
			33000pF	±10%	GRM188B11E333KA01#
				±20%	GRM188B11E333MA01#
			47000pF	±10%	GRM188B11E473KA01#
				±20%	GRM188B11E473MA01#
			68000pF	±10%	GRM188B11E683KA01#
				±20%	GRM188B11E683MA01#
			0.1µF	±10%	GRM188B11E104KA01#
				±20%	GRM188B11E104MA01#
			0.15µF	±10%	GRM188B11E154KA01#
			0.22µF	±10%	GRM188B31E224KA87#
			0.47µF	±10%	GRM188B31E474KA75#
				±20%	GRM188B31E474MA75#
			0.68µF	±10%	GRM188B31E684KA75#
			- 100µ	±20%	GRM188B31E684MA75#
			1.0µF	±10%	GRM188B31E105KA75#
			1.5μ1	±20%	GRM188B31E105MA75#
			2.2µF		GRM188B31E225KA12#
			2.2µF	±10%	
	16//4-	VZD	0.15,.5	±20%	GRM188B31E225MA12#
	16Vdc	X7R	0.15µF	±10%	GRM188R71C154KA01#
			0.22µF	±10%	GRM188R71C224KA01#
			0.33µF	±10%	GRM188R71C334KA01#
			0.47µF	±10%	GRM188R71C474KA88#
			1.0µF	±10%	GRM188R71C105KA12#
				±10%	GRM188R71C105KE15#

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number
0.9mm	16Vdc	X7R	1.0µF	±20%	GRM188R71C105MA12#
				±20%	GRM188R71C105ME15#
		X7S	0.68µF	±10%	GRM188C71C684KA12#
		R	0.15µF	±10%	GRM188R11C154KA01#
			0.22µF	±10%	GRM188R11C224KA01#
			0.33µF	±10%	GRM188R11C334KA01#
			0.47µF	±10%	GRM188R11C474KA88#
		X6S	1.0µF	±10%	GRM188C81C105KA12#
				±20%	GRM188C81C105MA12#
			2.2µF	±10%	GRM188C81C225KA12#
				±20%	GRM188C81C225MA12#
		X5R	0.22µF	±10%	GRM188R61C224KA88#
			0.68µF	±10%	GRM188R61C684KA75#
				±20%	GRM188R61C684MA75#
			1.0µF	±10%	GRM188R61C105KA93#
			2.2µF	±10%	GRM188R61C225KE15#
		В	0.15µF	±10%	GRM188B11C154KA01#
			0.22µF	±10%	GRM188B11C224KA01#
			0.33µF	±10%	GRM188B11C334KA01#
				±20%	GRM188B11C334MA01#
			0.68µF	±10%	GRM188B31C684KA75#
				±20%	GRM188B31C684MA75#
			1.0µF	±10%	GRM188B31C105KA92#
				±20%	GRM188B31C105MA92#
			2.2µF	±10%	GRM188B31C225KE14#
	10Vdc	X7R	0.33µF	±10%	GRM188R71A334KA61#
				±20%	GRM188R71A334MA61#
			0.47µF	±10%	GRM188R71A474KA61#
			0.68µF	±10%	GRM188R71A684KA61#
				±20%	GRM188R71A684MA61#
			2.2µF	±10%	GRM188R71A225KE15#
				±20%	GRM188R71A225ME15#
		X7T	2.2µF	±10%	GRM188D71A225KE34#
				±20%	GRM188D71A225ME34#
		X6S	2.2µF	±10%	GRM188C81A225KE34#
				±20%	GRM188C81A225ME34#
		X5R	0.33µF	±10%	GRM188R61A334KA61#
				±20%	GRM188R61A334MA61#
			0.68µF	±10%	GRM188R61A684KA61#
				±20%	GRM188R61A684MA61#
			2.2µF	±10%	GRM188R61A225KE34#
				±20%	GRM188R61A225ME34#
		В	0.33µF	±10%	GRM188B11A334KA61#
				±20%	GRM188B11A334MA61#
			0.68µF	±10%	GRM188B11A684KA61#
				±20%	GRM188B11A684MA61#
			2.2µF	±10%	GRM188B31A225KE33#
	0.617.	\/==		±20%	GRM188B31A225ME33#
	6.3Vdc	X7R	1.0µF	±10%	GRM188R70J105KA01#
		V70	00.5	±20%	GRM188R70J105MA01#
		X7S	2.2µF	±10%	GRM188C70J225KE20#
		Vec	2 20.7	±20%	GRM188C70J225ME20#
		X6S	2.2µF	±10% ±20%	GRM188C80J225KE19# GRM188C80J225ME19#
			Part num		cates the package specification code.
			ı arı nun	π mult	atoo the package specification code.



(→ **■** 1.6×0.8mm)

T max.	Rated Voltage	TC Code	Сар.	Tol.	Part Number	
0.9mm	6.3Vdc	X6S	4.7µF	±10%	GRM188C80J475KE15#	Derating
				±20%	GRM188C80J475ME15#	Derating
		X5R	10µF	±20%	GRM188R60J106ME47#	
		В	10µF	±20%	GRM188B30J106ME47#	
	4Vdc	X6S	4.7µF	±10%	GRM188C80G475KE19#	
				±20%	GRM188C80G475ME19#	
			10µF	±20%	GRM188C80G106ME47#	Derating
		X5R	10µF	±20%	GRM188R60G106ME47#	
		В	10µF	±20%	GRM188B30G106ME46#	
	2.5Vdc	X6S	10µF	±20%	GRM188C80E106ME47#	
0.95mm	25Vdc	X5R	4.7µF	±10%	GRM188R61E475KE11#	
	16Vdc	X5R	4.7µF	±10%	GRM188R61C475KAAJ#	Derating
				±20%	GRM188R61C475MAAJ#	Derating
		В	4.7µF	±10%	GRM188B31C475KAAJ#	Derating
				±20%	GRM188B31C475MAAJ#	Derating
	10Vdc	В	10µF	±20%	GRM188B31A106ME69#	Derating
1mm	35Vdc	X5R	4.7µF	±10%	GRM188R6YA475KE15#	
				±20%	GRM188R6YA475ME15#	
	25Vdc	X5R	4.7µF	±10%	GRM188R61E475KE15#	
				±20%	GRM188R61E475ME15#	
			10µF	±20%	GRM188R61E106MA73#	
	16Vdc	X6S	10µF	±20%	GRM188C81C106MA73#	
		X5R	10µF	±20%	GRM188R61C106MA73#	
	10Vdc	X7T	10µF	±20%	GRM188D71A106MA73#	
		X6S	10µF	±20%	GRM188C81A106MA73#	
	6.3Vdc	X7T	10µF	±20%	GRM188D70J106MA73#	
		X5R	22µF	±20%	GRM188R60J226MEA0#	Derating
		В	22µF	±20%	GRM188B30J226MEA0#	Derating
	4Vdc	X6S	22µF	±20%	GRM188C80G226MEA0#	Derating
		X5R	22µF	±20%	GRM188R60G226MEA0#	
		В	22µF	±20%	GRM188B30G226MEA0#	

■ 2.0×1.25mm

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number
0.7mm	25Vdc	X5R	1.0µF	±10%	GRM216R61E105KA12#
	16Vdc	X6S	1.0µF	±10%	GRM216C81C105KA12#
0.95mm	100Vdc	X7R	6800pF	±10%	GRM219R72A682KA01#
			10000pF	±10%	GRM219R72A103KA01#
				±20%	GRM219R72A103MA01#
	50Vdc	X7R	10000pF	±10%	GRM219R71H103KA01#
				±20%	GRM219R71H103MA01#
			15000pF	±10%	GRM219R71H153KA01#
				±20%	GRM219R71H153MA01#
			33000pF	±10%	GRM219R71H333KA01#
		R	0.33µF	±10%	GRM219R71H334KA88#
			33000pF	±10%	GRM219R11H333KA01#
		X5R	1.0µF	±10%	GRM219R61H105KA73#
				±20%	GRM219R61H105MA73#
			2.2µF	±10%	GRM219R61H225KE15#
				±20%	GRM219R61H225ME15#
		В	33000pF	±10%	GRM219B11H333KA01#
			0.33µF	±10%	GRM219B31H334KA87#

T max.	Rated Voltage	TC Code	Сар.	Tol.	Part Number	
0.95mm	50Vdc	В	0.33µF	±20%	GRM219B31H334MA87#	
			1.0µF	±10%	GRM219B31H105KA73#	
				±20%	GRM219B31H105MA73#	
			2.2µF	±10%	GRM219B31H225KE15#	
				±20%	GRM219B31H225ME15#	
max.	35Vdc	X6S	2.2µF	±10%	GRM219C8YA225KE15#	
				±20%	GRM219C8YA225ME15#	
		X5R	4.7µF	±10%	GRM219R6YA475KA73#	Derating
				±20%	GRM219R6YA475MA73#	Derating
	25Vdc	X7R	68000pF	±10%	GRM219R71E683KA01#	
			0.1µF	±10%	GRM219R71E104KA01#	
				±20%	GRM219R71E104MA01#	
			0.68µF	±10%	GRM219R71E684KA88#	
			1.0µF	±10%	GRM219R71E105KA88#	
		R	68000pF	±10%	GRM219R11E683KA01#	
		X6S	2.2µF	±10%	GRM219C81E225KE15#	
				±20%	GRM219C81E225ME15#	
		X5R	2.2µF	±10%	GRM219R61E225KA12#	
				±20%	GRM219R61E225MA12#	
			4.7µF	±10%	GRM219R61E475KA73#	
				±20%	GRM219R61E475MA73#	
			10µF	±10%	GRM219R61E106KA12#	Derating
				±20%	GRM219R61E106MA12#	Derating
		В	0.47µF	±10%	GRM219B31E474KA88#	
			0.68µF	±10%	GRM219B31E684KA88#	
			1.0µF	±10%	GRM219B31E105KA88#	
			2.2µF	±10%	GRM219B31E225KA75#	_
				±20%	GRM219B31E225MA75#	_
			10µF	±10%	GRM219B31E106KA12#	Derating
				±20%	GRM219B31E106MA12#	Derating
	16Vdc	X7R	0.33µF	±10%	GRM219R71C334KA88#	
			0.68µF	±10%	GRM219R71C684KA01#	
			2.2µF	±10%	GRM219R71C225KE15#	
				±20%	GRM219R71C225ME15#	
		R	0.68µF	±10%	GRM219R11C684KA01#	
		X6S	4.7µF	±10%	GRM219C81C475KA73#	
				±20%	GRM219C81C475MA73#	
		X5R	4.7µF	±10%	GRM219R61C475KE15#	
			10µF	±10%	GRM219R61C106KA73#	
				±20%	GRM219R61C106MA73#	
		В	0.68µF	±10%	GRM219B11C684KA01#	_
			4.7µF	±10%	GRM219B31C475KE15#	\vdash
			10µF	±10%	GRM219B31C106KA73#	+
			. ор.	±20%	GRM219B31C106MA73#	_
	10Vdc	X7R	2.2µF	±10%	GRM219R71A225KE15#	\vdash
	.5.00	****	µ'	±20%	GRM219R71A225ME15#	+
		X7T	4.7μF	±10%	GRM219D71A475KE15#	Derating
		"	μι	±20%	GRM219D71A475KE15#	Derating
		X5R	22µF	±20%	GRM219B71A475ME13#	Derating
		В	22µF	±20%	GRM219B31A226MEA0#	Derating
	6.3Vdc	X6S	22μF 10μF	±10%	GRM219C80J106KE39#	Detailing
	0.5 VuC	703	ιυμΓ			\vdash
		VED	20.15	±20%	GRM219C80J106ME39#	Dozotina
		X5R B	22µF	±20%	GRM219R60J226ME47#	Derating
		_ D	22µF	±20%	GRM219B30J226ME47#	Derating



(→ **■** 2.0×1.25mm)

T max.	Rated Voltage	TC Code	Сар.	Tol.	Part Number	
0.95mm	4Vdc	X6S	10μF	±10%	GRM219C80G106KE19#	
				±20%	GRM219C80G106ME19#	
		X5R	47µF	±20%	GRM219R60G476ME44#	Derating
1mm	100Vdc	X7R	0.22µF	±10%	GRM21AR72A224KAC5#	
			0.33µF	±10%	GRM21AR72A334KAC5#	
	50Vdc	X7R	22000pF	±10%	GRM219R71H223KA17#	
				±20%	GRM219R71H223MA17#	
1.35mm	100Vdc	X7R	10000pF	±10%	GRM21BR72A103KA01#	
			15000pF	±10%	GRM21BR72A153KA01#	
			22000pF	±10%	GRM21BR72A223KA01#	
			33000pF	±10%	GRM21BR72A333KA01#	
			47000pF	±10%	GRM21BR72A473KA01#	
			68000pF	±10%	GRM21BR72A683KAC4#	
				±20%	GRM21BR72A683MAC4#	
			0.1µF	±10%	GRM21BR72A104KAC4#	
			·	±20%	GRM21BR72A104MAC4#	
	50Vdc	X7R	47000pF	±10%	GRM21BR71H473KA01#	
			68000pF	±10%	GRM21BR71H683KA01#	
			0.1µF	±10%	GRM21BR71H104KA01#	
			0	±20%	GRM21BR71H104MA01#	
			0.15µF	±10%	GRM21BR71H154KA01#	
			0.10µF	±10%	GRM21BR71H224KA01#	
			0.47µF	±10%	GRM21BR71H474KA88#	
			1.0µF	±10%	GRM21BR71H105KA12#	
		R	-		GRM21BR11H473KA01#	
		n	47000pF	±10%		
			68000pF	±10%	GRM21BR11H683KA01#	
			0.1µF	±10%	GRM21BR11H104KA01#	
		V=D		±20%	GRM21BR11H104MA01#	
		X5R	1.0µF	±10%	GRM21BR61H105KA12#	
		В	47000pF	±10%	GRM21BB11H473KA01#	
			68000pF	±10%	GRM21BB11H683KA01#	
			0.1µF	±10%	GRM21BB11H104KA01#	
				±20%	GRM21BB11H104MA01#	
			0.15µF	±10%	GRM21BB31H154KA88#	
				±20%	GRM21BB31H154MA88#	
			0.22µF	±10%	GRM21BB31H224KA88#	
				±20%	GRM21BB31H224MA88#	
			0.47µF	±10%	GRM21BB31H474KA87#	
				±20%	GRM21BB31H474MA87#	
			0.68µF	±10%	GRM21BB31H684KAC4#	
				±20%	GRM21BB31H684MAC4#	
			1.0µF	±10%	GRM21BB31H105KA12#	
				±20%	GRM21BB31H105MA12#	
	25Vdc	X7R	0.1µF	±10%	GRM21BR71E104KA01#	
			0.15µF	±10%	GRM21BR71E154KA01#	
		R	0.1µF	±10%	GRM21BR11E104KA01#	
			0.15µF	±10%	GRM21BR11E154KA01#	
				±20%	GRM21BR11E154MA01#	
			0.68µF	±10%	GRM21BR11E684KA88#	
		X6S	4.7µF	±10%	GRM21BC81E475KA12#	
			'	±20%	GRM21BC81E475MA12#	
		X5R	2.2µF	±10%	GRM21BR61E225KA12#	
			P.	±20%	GRM21BR61E225MA12#	
			4.7μF	±10%	GRM21BR61E475KA12#	_

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number	
1.35mm	25Vdc	X5R	4.7µF	±20%	GRM21BR61E475MA12#	
		В	0.15µF	±10%	GRM21BB11E154KA01#	
			0.22µF	±10%	GRM21BB11E224KA01#	
			0.33µF	±10%	GRM21BB11E334KA01#	
			2.2µF	±10%	GRM21BB31E225KA75#	
				±20%	GRM21BB31E225MA75#	
			4.7µF	±10%	GRM21BB31E475KA75#	
				±20%	GRM21BB31E475MA75#	
	16Vdc	X7R	2.2µF	±10%	GRM21BR71C225KA12#	
				±20%	GRM21BR71C225MA12#	
		X6S	4.7µF	±10%	GRM21BC81C475KA88#	
		X5R	2.2µF	±10%	GRM21BR61C225KA88#	
			4.7µF	±10%	GRM21BR61C475KA88#	
			10µF	±10%	GRM21BR61C106KE15#	
				±20%	GRM21BR61C106ME15#	
		В	2.2µF	±10%	GRM21BB31C225KA87#	
			4.7µF	±10%	GRM21BB31C475KA87#	
			10µF	±10%	GRM21BB31C106KE15#	
			ΙΟμι	±20%	GRM21BB31C106ME15#	
	10Vdc	X6S	10µF	±10%	GRM21BC81A106KE18#	
	10140	7.00	ΙΟμι	±20%	GRM21BC81A106ME18#	
	6.3Vdc	X6S	10µF	±10%	GRM21BC80J106KE19#	
	0.5 vuc	700	ιομι	±20%	GRM21BC80J106ME19#	
1.4mm	100Vdc	X7R	0.47µF	±10%	GRM21BR72A474KA73#	
1.411111		X5R				-
	50Vdc	VOU	2.2µF	±10%	GRM21BR61H225KA73#	
			4 7	±20%	GRM21BR61H225MA73#	
			4.7µF	±10%	GRM21BR61H475KE51#	
		В	0.005	±20%	GRM21BR61H475ME51#	
		В	2.2µF	±10%	GRM21BB31H225KA73#	
			4.7	±20%	GRM21BB31H225MA73#	
			4.7µF	±10%	GRM21BB31H475KE51#	
	05//	VZD	10	±20%	GRM21BB31H475ME51#	
	25Vdc	X7R	1.0µF	±10%	GRM21BR71E105KA99#	-
			2.2µF	±10%	GRM21BR71E225KA73#	_
		R	1.0µF	±10%	GRM21BR11E105KA99#	_
		X5R	10μF	±10%	GRM21BR61E106KA73#	_
				±20%	GRM21BR61E106MA73#	
		В	1.0µF	±10%	GRM21BB31E105KA98#	-
			10µF	±10%	GRM21BB31E106KA73#	-
				±20%	GRM21BB31E106MA73#	_
	16Vdc	X7R	4.7µF	±10%	GRM21BR71C475KA73#	
				±20%	GRM21BR71C475MA73#	_
		X6S	10µF	±10%	GRM21BC81C106KA73#	
				±20%	GRM21BC81C106MA73#	
	10Vdc	X7R	4.7µF	±10%	GRM21BR71A475KA73#	
				±20%	GRM21BR71A475MA73#	
			10μF	±10%	GRM21BR71A106KE51#	
				±20%	GRM21BR71A106ME51#	
		В	22µF	±20%	GRM21BB31A226ME51#	Derating
	6.3Vdc	X7R	10µF	±10%	GRM21BR70J106KE76#	
				±20%	GRM21BR70J106ME76#	
		X6S	22µF	±20%	GRM21BC80J226ME51#	Derating
		X5R	22µF	±20%	GRM21BR60J226ME39#	
		В	22µF	±20%	GRM21BB30J226ME38#	
			Part nun	mber # indio	cates the package specification	code.



(→ **■** 2.0×1.25mm)

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number	
1.4mm	4Vdc	X7U	22µF	±20%	GRM21BE70G226ME51#	
		X6S	22µF	±20%	GRM21BC80G226ME39#	
1.45mm	25Vdc	X5R	22µF	±20%	GRM21BR61E226ME44#	
	6.3Vdc	X5R	47µF	±20%	GRM21BR60J476ME15#	Derating
		В	47µF	±20%	GRM21BB30J476ME15#	Derating
	4Vdc	X6S	47µF	±20%	GRM21BC80G476ME15#	Derating
		X5R	47µF	±20%	GRM21BR60G476ME15#	
		В	47µF	±20%	GRM21BB30G476ME15#	

■ 3.2×1.6mm

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number	
0.7mm	25Vdc	X5R	2.2µF	±10%	GRM316R61E225KA12#	
		В	2.2µF	±10%	GRM316B31E225KA75#	
	16Vdc	X6S	2.2µF	±10%	GRM316C81C225KA12#	
0.95mm	100Vdc	X7R	15000pF	±10%	GRM319R72A153KA01#	
			0.1µF	±10%	GRM319R72A104KA01#	
	50Vdc	X7R	0.33µF	±10%	GRM319R71H334KA01#	
	35Vdc	X5R	10µF	±10%	GRM319R6YA106KA12#	Deratin
				±20%	GRM319R6YA106MA12#	Deratin
	25Vdc	X7R	0.33µF	±10%	GRM319R71E334KA01#	
		R	0.33µF	±10%	GRM319R11E334KA01#	
		В	0.33µF	±10%	GRM319B11E334KA01#	
			0.68µF	±10%	GRM319B11E684KA01#	
	16Vdc	X6S	4.7µF	±10%	GRM319C81C475KA12#	
		X5R	10µF	±10%	GRM319R61C106KE15#	
				±20%	GRM319R61C106ME15#	
		В	0.47µF	±10%	GRM319B11C474KA01#	
			10µF	±10%	GRM319B31C106KE15#	
				±20%	GRM319B31C106ME15#	
	10Vdc	X5R	22µF	±20%	GRM319R61A226ME15#	
		В	22µF	±20%	GRM319B31A226ME15#	
	6.3Vdc	X6S	22µF	±20%	GRM319C80J226ME15#	
		X5R	22µF	±20%	GRM319R60J226ME15#	
		В	22µF	±20%	GRM319B30J226ME15#	
1.25mm	100Vdc	X7R	22000pF	±10%	GRM31MR72A223KA01#	
			33000pF	±10%	GRM31MR72A333KA01#	
			47000pF	±10%	GRM31MR72A473KA01#	
			68000pF	±10%	GRM31MR72A683KA01#	
			0.15µF	±10%	GRM31MR72A154KA01#	
			0.22µF	±10%	GRM31MR72A224KA01#	
	50Vdc	X7R	0.15µF	±10%	GRM31MR71H154KA01#	
			0.22µF	±10%	GRM31MR71H224KA01#	
			0.47µF	±10%	GRM31MR71H474KA01#	
			0.68µF	±10%	GRM31MR71H684KA88#	
			1.0µF	±10%	GRM31MR71H105KA88#	
		R	0.15µF	±10%	GRM31MR11H154KA01#	
		-	0.22µF	±10%	GRM31MR11H224KA01#	
		В	0.15µF	±10%	GRM31MB11H154KA01#	
		_	0.22µF	±10%	GRM31MB11H224KA01#	
			1.0μF	±10%	GRM31MB31H105KA87#	
	25Vdc	X5R	10μF	±20%	GRM31MR61E106MA12#	
		В	0.22µF	±10%	GRM31MB11E224KA01#	

T max.	Rated Voltage	TC Code	Сар.	Tol.	Part Number	
1.25mm	16Vdc	X6S	10μF	±10%	GRM31MC81C106KA12#	
		В	0.68µF	±10%	GRM31MB11C684KA01#	
1.3mm	100Vdc	X7R	0.47µF	±10%	GRM31MR72A474KA35#	
				±20%	GRM31MR72A474MA35#	
			0.68µF	±10%	GRM31MR72A684KA35#	
	25Vdc	В	2.2µF	±10%	GRM31MB31E225KA92#	
1.8mm	100Vdc	X7R	1.0µF	±10%	GRM31CR72A105KA01#	
	50Vdc	X7R	2.2µF	±10%	GRM31CR71H225KA88#	
			4.7µF	±10%	GRM31CR71H475KA12#	
		X5R	2.2µF	±10%	GRM31CR61H225KA88#	
		В	2.2µF	±10%	GRM31CB31H225KA87#	
				±20%	GRM31CB31H225MA87#	
			4.7µF	±10%	GRM31CB31H475KA12#	
				±20%	GRM31CB31H475MA12#	
	25Vdc	X7R	4.7µF	±10%	GRM31CR71E475KA88#	
			10µF	±10%	GRM31CR71E106KA12#	
				±20%	GRM31CR71E106MA12#	
		X6S	10µF	±10%	GRM31CC81E106KE15#	
				±20%	GRM31CC81E106MA12#	
		X5R	10µF	±10%	GRM31CR61E106KA12#	
			22µF	±20%	GRM31CR61E226ME15#	
		В	10µF	±10%	GRM31CB31E106KA75#	
			22µF	±20%	GRM31CB31E226ME15#	
	16Vdc	X7R	4.7µF	±20%	GRM31CR71C475MA01#	
			10µF	±10%	GRM31CR71C106KAC7#	
				±20%	GRM31CR71C106MAC7#	
		R	4.7µF	±20%	GRM31CR11C475MA01#	
		X6S	22µF	±20%	GRM31CC81C226ME15#	
		X5R	10μF	±10%	GRM31CR61C106KA88#	
			22µF	±20%	GRM31CR61C226ME15#	
		В	10μF	±10%	GRM31CB31C106KA88#	
			22µF	±20%	GRM31CB31C226ME15#	
	10Vdc	X7R	22µF	±20%	GRM31CR71A226ME15#	
		X6S	22µF	±20%	GRM31CC81A226ME19#	
		X5R	22µF	±20%	GRM31CR61A226ME19#	
			47μF	±20%	GRM31CR61A476ME15#	
		В	22µF	±20%	GRM31CB31A226ME19#	
			47μF	±20%	GRM31CB31A476ME15#	
	6.3Vdc	X7R	22µF	±20%	GRM31CR70J226ME19#	
		X7U	47μF	±20%	GRM31CE70J476ME15#	Derating
		X6S	22µF	±20%	GRM31CC80J226ME19#	
			47µF	±20%	GRM31CC80J476ME18#	
		X5R	47μF	±20%	GRM31CR60J476ME19#	
		В	47μF	±20%	GRM31CB30J476ME18#	_
	4Vdc	X7U	47µF	±20%	GRM31CE70G476ME15#	
		X6S	47µF	±20%	GRM31CC80G476ME19#	
1.9mm	100Vdc	X7R	2.2µF	±10%	GRM31CR72A225KA73#	
				±20%	GRM31CR72A225MA73#	_
	6.3Vdc	X6T	100µF	±20%	GRM31CD80J107ME39#	Derating
		X5R	100µF	±20%	GRM31CR60J107ME39#	_
	4Vdc	X7U	100µF	±20%	GRM31CE70G107ME39#	Derating
		X6T	100µF	±20%	GRM31CD80G107ME39#	_
		X5R	100μF	±20%	GRM31CR60G107ME39#	

■ 3.2×2.5mm

T max.	Rated Voltage	TC Code	Сар.	Tol.	Part Number	
1mm	6.3Vdc	X5S	150µF	±20%	GRM32RC60J157ME15#	Derating
	4Vdc	X6T	150µF	±20%	GRM32RD80G157ME15#	Derating
		X5S	150µF	±20%	GRM32RC60G157ME15#	
	2.5Vdc	X6T	150µF	±20%	GRM32RD80E157ME15#	
1.5mm	50Vdc	X7R	0.68µF	±10%	GRM32NR71H684KA01#	
		В	0.68µF	±10%	GRM32NB11H684KA01#	
	10Vdc	X6S	22µF	±20%	GRM32NC81A226ME19#	
1.8mm	100Vdc	X7R	0.68µF	±10%	GRM32CR72A684KA01#	
			1.0µF	±10%	GRM32CR72A105KA35#	
2.2mm	25Vdc	X7R	10μF	±10%	GRM32DR71E106KA12#	
		X6S	10μF	±10%	GRM32DC81E106KA12#	
2.7mm	100Vdc	X7R	2.2µF	±10%	GRM32ER72A225KA35#	
				±20%	GRM32ER72A225MA35#	
	50Vdc	X7R	4.7µF	±10%	GRM32ER71H475KA88#	
			10μF	±10%	GRM32ER71H106KA12#	
		X5R	10μF	±10%	GRM32ER61H106KA12#	
				±20%	GRM32ER61H106MA12#	
		В	4.7µF	±10%	GRM32EB31H475KA87#	
			10μF	±10%	GRM32EB31H106KA12#	
				±20%	GRM32EB31H106MA12#	
	35Vdc	X7R	10μF	±10%	GRM32ER7YA106KA12#	
		X5R	10μF	±10%	GRM32ER6YA106KA12#	
		В	10μF	±10%	GRM32EB3YA106KA12#	
	25Vdc	X7R	22µF	±20%	GRM32ER71E226ME15#	
		X6S	22µF	±20%	GRM32EC81E226ME15#	
		X5R	22µF	±20%	GRM32ER61E226ME15#	
		В	22µF	±20%	GRM32EB31E226ME15#	
	16Vdc	X7R	22µF	±20%	GRM32ER71C226MEA8#	
		X6S	47µF	±20%	GRM32EC81C476ME15#	Derating
		X5R	47µF	±20%	GRM32ER61C476ME15#	
		В	22µF	±20%	GRM32EB31C226ME16#	
			47µF	±20%	GRM32EB31C476ME15#	
	10Vdc	X7R	47µF	±20%	GRM32ER71A476ME15#	
		X6S	47µF	±20%	GRM32EC81A476ME19#	
		X5R	47µF	±20%	GRM32ER61A476ME20#	
		В	47µF	±20%	GRM32EB31A476ME20#	
	6.3Vdc	X7R	47µF	±20%	GRM32ER70J476ME20#	
		X7U	100µF	±20%	GRM32EE70J107ME15#	Derating
		X6S	47µF	±20%	GRM32EC80J476ME64#	
			100µF	±20%	GRM32EC80J107ME20#	
		X5R	100µF	±20%	GRM32ER60J107ME20#	
		В	100µF	±20%	GRM32EB30J107ME16#	
	4Vdc	X7U	100µF	±20%	GRM32EE70G107ME19#	
		X6S	100µF	±20%	GRM32EC80G107ME20#	

Chip Monolithic Ceramic Capacitors

Capacitor Array GNM Series

Ideal for reducing the mounting area and mounting costs.



- 1 The number of parts can be reduced.
- 2 Also contributes to the low profile of the set.
- 3 Ideal for decoupling and smoothing.
- Accommodates 2 or 4 times the number of individual chips per reel.)

Rated

Voltage

16Vdc

max.

TC

Code

X5R

В

Cap.

47000pF

22000pF

Tol.

±20%

±20%

Part Number

GNM1M2R61C473MA01#

GNM1M2B11C223MA01#

GNM1M2B30J225ME18#

■ 2 Elements 0.9×0.6mm

Т	Rated	TC	Cap.	Tol.	Part Number	
max.	Voltage	Code	·			
0.5mm	16Vdc	X5R	10000pF	±20%	GNM0M2R61C103ME18#	
			22000pF	±20%	GNM0M2R61C223ME18#	
			47000pF	±20%	GNM0M2R61C473ME18#	
			0.1µF	±20%	GNM0M2R61C104ME18#	
		В	10000pF	±20%	GNM0M2B31C103ME18#	
			22000pF	±20%	GNM0M2B31C223ME18#	
			47000pF	±20%	GNM0M2B31C473ME18#	
			0.1µF	±20%	GNM0M2B31C104ME18#	
	10Vdc	X5R	10000pF	±20%	GNM0M2R61A103ME17#	
			22000pF	±20%	GNM0M2R61A223ME17#	
			47000pF	±20%	GNM0M2R61A473ME17#	
			0.1µF	±20%	GNM0M2R61A104ME17#	
		В	10000pF	±20%	GNM0M2B31A103ME17#	
			22000pF	±20%	GNM0M2B31A223ME17#	
			47000pF	±20%	GNM0M2B31A473ME17#	
			0.1µF	±20%	GNM0M2B31A104ME17#	
	4Vdc	X5R	1.0µF	±20%	GNM0M2R60G105ME17#	
		В	1.0µF	±20%	GNM0M2B30G105ME17#	

			47000pF	±20%	GNM1M2B11C473MA01#	
			0.1µF	±20%	GNM1M2B11C104MA01#	
	10Vdc	X7R	22000pF	±20%	GNM1M2R71A223MA01#	
			47000pF	±20%	GNM1M2R71A473MA01#	
		R	22000pF	±20%	GNM1M2R11A223MA01#	
			47000pF	±20%	GNM1M2R11A473MA01#	
		X5R	22000pF	±20%	GNM1M2R61A223MA01#	
			47000pF	±20%	GNM1M2R61A473MA01#	
			0.1µF	±20%	GNM1M2R61A104MA01#	
		В	22000pF	±20%	GNM1M2B11A223MA01#	
			47000pF	±20%	GNM1M2B11A473MA01#	
			0.1µF	±20%	GNM1M2B11A104MA01#	
0.8mm	16Vdc	X5R	0.22µF	±20%	GNM1M2R61C224ME18#	
			1.0µF	±20%	GNM1M2R61C105ME18#	
		В	1.0µF	±20%	GNM1M2B31C105ME18#	
	10Vdc	X5R	1.0µF	±20%	GNM1M2R61A105ME17#	
			2.2µF	±20%	GNM1M2R61A225ME18#	
		В	0.22µF	±20%	GNM1M2B31A224ME17#	
			0.47µF	±20%	GNM1M2B31A474ME17#	
			1.0µF	±20%	GNM1M2B31A105ME17#	
			2.2µF	±20%	GNM1M2B31A225ME18#	
	6.3Vdc	X5R	2.2uF	±20%	GNM1M2R60J225ME18#	

■ 2 Elements 1.37×1.0mm

T max.	Rated Voltage	TC Code	Сар.	Tol.	Part Number	
0.55mm	16Vdc	X7R	0.1µF	±20%	GNM1M2R71C104MAA1#	
		R	0.1µF	±20%	GNM1M2R11C104MAA1#	
		X5R	1.0µF	±20%	GNM1M2R61C105MEA2#	
		В	0.1µF	±20%	GNM1M2B11C104MAA1#	
	10Vdc	X5R	1.0µF	±20%	GNM1M2R61A105MEA4#	
		В	1.0µF	±20%	GNM1M2B31A105MEA4#	
0.7mm	50Vdc	X7R	1000pF	±20%	GNM1M2R71H102MA01#	
		R	1000pF	±20%	GNM1M2R11H102MA01#	
		X5R	1000pF	±20%	GNM1M2R61H102MA01#	
		В	1000pF	±20%	GNM1M2B11H102MA01#	
	25Vdc	X7R	2200pF	±20%	GNM1M2R71E222MA01#	
			4700pF	±20%	GNM1M2R71E472MA01#	
			10000pF	±20%	GNM1M2R71E103MA01#	
		R	2200pF	±20%	GNM1M2R11E222MA01#	
			4700pF	±20%	GNM1M2R11E472MA01#	
			10000pF	±20%	GNM1M2R11E103MA01#	
		X5R	2200pF	±20%	GNM1M2R61E222MA01#	
			4700pF	±20%	GNM1M2R61E472MA01#	
			10000pF	±20%	GNM1M2R61E103MA01#	
		В	2200pF	±20%	GNM1M2B11E222MA01#	
			4700pF	±20%	GNM1M2B11E472MA01#	
			10000pF	±20%	GNM1M2B11E103MA01#	
	16Vdc	X7R	22000pF	±20%	GNM1M2R71C223MA01#	
			47000pF	±20%	GNM1M2R71C473MA01#	
			0.1µF	±20%	GNM1M2R71C104MA01#	
		R	22000pF	±20%	GNM1M2R11C223MA01#	
			47000pF	±20%	GNM1M2R11C473MA01#	
			0.1µF	±20%	GNM1M2R11C104MA01#	
		X5R	22000pF	±20%	GNM1M2R61C223MA01#	

■ 4 Elements 2.0×1.25mm

В

2.2µF

±20%

T max.	Rated Voltage	TC Code	Сар.	Tol.	Part Number	
0.55mm	16Vdc	X7R	0.1µF	±20%	GNM214R71C104MAA1#	_
		R	0.1µF	±20%	GNM214R11C104MAA1#	
		В	0.1µF	±20%	GNM214B11C104MAA1#	
	10Vdc	X5R	0.22µF	±20%	GNM214R61A224MEA2#	
			1.0µF	±20%	GNM214R61A105MEA2#	
		В	0.22µF	±20%	GNM214B31A224MEA2#	
			1.0µF	±20%	GNM214B31A105MEA2#	
	6.3Vdc	X5R	0.22µF	±20%	GNM214R60J224MEA2#	
			1.0µF	±20%	GNM214R60J105MEA2#	
		В	0.22µF	±20%	GNM214B30J224MEA2#	
			1.0µF	±20%	GNM214B30J105MEA2#	
0.7mm	50Vdc	X7R	470pF	±20%	GNM214R71H471MA01#	
			1000pF	±20%	GNM214R71H102MA01#	
		R	1000pF	±20%	GNM214R11H102MA01#	
		В	470pF	±20%	GNM214B11H471MA01#	
			1000pF	±20%	GNM214B11H102MA01#	
	25Vdc	X7R	2200pF	±20%	GNM214R71E222MA01#	
			4700pF	±20%	GNM214R71E472MA01#	
			10000pF	±20%	GNM214R71E103MA01#	
		R	2200pF	±20%	GNM214R11E222MA01#	
			4700pF	±20%	GNM214R11E472MA01#	
			10000pF	±20%	GNM214R11E103MA01#	
		В	2200pF	±20%	GNM214B11E222MA01#	_
			4700pF	±20%	GNM214B11E472MA01#	_
			Part nun	nber # indic	cates the package specification cod	e.



(→ **■** 4 Elements 2.0×1.25mm)

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number
0.7mm	25Vdc	В	10000pF	±20%	GNM214B11E103MA01#
0.95mm	16Vdc	X7R	22000pF	±20%	GNM214R71C223MA01#
			47000pF	±20%	GNM214R71C473MA01#
			0.1µF	±20%	GNM214R71C104MA01#
		R	22000pF	±20%	GNM214R11C223MA01#
			47000pF	±20%	GNM214R11C473MA01#
			0.1µF	±20%	GNM214R11C104MA01#
		В	22000pF	±20%	GNM214B11C223MA01#
			47000pF	±20%	GNM214B11C473MA01#
			0.1µF	±20%	GNM214B11C104MA01#
	10Vdc	X5R	1.0µF	±20%	GNM214R61A105ME17#
		В	1.0µF	±20%	GNM214B31A105ME17#
	6.3Vdc	X5R	1.0µF	±20%	GNM214R60J105ME17#
		В	1.0µF	±20%	GNM214B30J105ME17#

Chip Monolithic Ceramic Capacitors

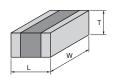
Low ESL LLL/LLR/LLA/LLM Series



LLL Series

Ideal decoupling solution for equipment having advanced features.



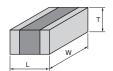


- 1 Ideal for IC decoupling of high-speed operating equipment, due to the low inductance value (ESL value).
- 2 LW reversed geometry type/multi-terminal type and a large lineup of capacitors are available according to performance requirements.

LLR Series

Low ESL capacitor that suppresses the anti-resonance in circuits.



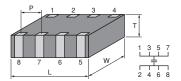


- 1 Reduces the anti-resonance generated in the high-frequency range.
- 2 An optimal ESR value can be selected from four types, according to the characteristics of the circuit.
- 3 The low ESL type, is also ideal as a decoupling component.

LLA Series

Ideal decoupling solution for equipment having advanced features.



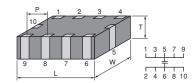


- 1 Ideal for IC decoupling of high-speed operating equipment, due to the low inductance value (ESL value).
- 2 LW reversed geometry type/multi-terminal type and a large lineup of capacitors are available according to performance requirements.

LLM Series

Ideal decoupling solution for equipment having advanced features.





- 1 Ideal for IC decoupling of high-speed operating equipment, due to the low inductance value (ESL value).
- 2 LW reversed geometry type/multi-terminal type and a large lineup of capacitors are available according to performance requirements.

■ 0.5×1.0mm

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number
0.35mm	6.3Vdc	X6S	0.1µF	±20%	LLL153C80J104ME01#
			0.22µF	±20%	LLL153C80J224ME14#
	4Vdc	X7S	0.47µF	±20%	LLL153C70G474ME17#

■ 0.8×1.6mm

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number
0.5mm	25Vdc	X7R	10000pF ±20%		LLL185R71E103MA11#
	16Vdc	X7R	22000pF	±20%	LLL185R71C223MA11#
			47000pF	±20%	LLL185R71C473MA11#
	10Vdc	X7R	0.1µF	±20%	LLL185R71A104MA11#
	4Vdc	X7S	0.22µF	±20%	LLL185C70G224MA11#
0.55mm	4Vdc	X7S	1.0µF	±20%	LLL185C70G105ME01#
			2.2µF	±20%	LLL185C70G225ME01#
0.6mm	50Vdc	X7R	2200pF	±20%	LLL185R71H222MA01#
			4700pF	±20%	LLL185R71H472MA01#
	25Vdc	X7R	10000pF	±20%	LLL185R71E103MA01#
			22000pF	±20%	LLL185R71E223MA01#
	16Vdc	X7R	47000pF	±20%	LLL185R71C473MA01#
	10Vdc	X7R	0.1µF	±20%	LLL185R71A104MA01#
			0.22µF	±20%	LLL185R71A224MA01#
	4Vdc	X7S	0.47µF	±20%	LLL185C70G474MA01#

■ 1.25×2.0mm

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number
0.5mm	50Vdc	X7R	10000pF	±20%	LLL215R71H103MA11#
	25Vdc	X7R	22000pF	±20%	LLL215R71E223MA11#
	16Vdc	X7R	47000pF	±20%	LLL215R71C473MA11#
			0.1µF	±20%	LLL215R71C104MA11#
	10Vdc	X7R	0.22µF	±20%	LLL215R71A224MA11#
	6.3Vdc	X7R	0.47µF	±20%	LLL215R70J474MA11#

T max.	Rated Voltage	TC Code	Сар.	Tol.	Part Number
0.5mm	4Vdc	X7S	1.0µF	±20%	LLL215C70G105MA11#
0.7mm	50Vdc	X7R	10000pF	±20%	LLL216R71H103MA01#
			22000pF	±20%	LLL216R71H223MA01#
	25Vdc	X7R	47000pF	±20%	LLL216R71E473MA01#
			0.1µF	±20%	LLL216R71E104MA01#
	10Vdc	X7R	0.22µF	±20%	LLL216R71A224MA01#
0.95mm	16Vdc	X7R	0.22µF	±20%	LLL219R71C224MA01#
	10Vdc	X7R	0.47µF	±20%	LLL219R71A474MA01#
			1.0µF	±20%	LLL219R71A105MA01#
	4Vdc	X7S	2.2µF	±20%	LLL219C70G225MA01#

■ 1.6×3.2mm

T max.	Rated Voltage	TC Code	Сар.	Tol.	Part Number
0.5mm	50Vdc	X7R	10000pF	±20%	LLL315R71H103MA11#
			22000pF	±20%	LLL315R71H223MA11#
	25Vdc	X7R	47000pF	±20%	LLL315R71E473MA11#
			0.1µF	±20%	LLL315R71E104MA11#
	16Vdc	X7R	0.22µF	±20%	LLL315R71C224MA11#
	10Vdc	X7R	0.47µF	±20%	LLL315R71A474MA11#
0.8mm	50Vdc	X7R	10000pF	±20%	LLL317R71H103MA01#
			22000pF	±20%	LLL317R71H223MA01#
			47000pF	±20%	LLL317R71H473MA01#
	25Vdc	X7R	0.1µF	±20%	LLL317R71E104MA01#
	16Vdc	X7R	0.22µF	±20%	LLL317R71C224MA01#
			0.47µF	±20%	LLL317R71C474MA01#
	10Vdc	X7R	1.0µF	±20%	LLL317R71A105MA01#
	6.3Vdc	X7R	2.2µF	±20%	LLL317R70J225MA01#
1.25mm	50Vdc	X7R	0.1µF	±20%	LLL31MR71H104MA01#
	25Vdc	X7R	0.22µF	±20%	LLL31MR71E224MA01#
			0.47µF	±20%	LLL31MR71E474MA01#
	16Vdc	X7R	1.0µF	±20%	LLL31MR71C105MA01#
	10Vdc	X7R	2.2µF	±20%	LLL31MR71A225MA01#
	6.3Vdc	X7R	4.7µF	±20%	LLL31MR70J475MA01#
		X5R	10µF	±20%	LLL31MR60J106ME01#

LLR Series High Dielectric Constant Type 🔛 Part Number List

■ 0.8×1.6mm

T max.	Rated Voltage	TC Code	Cap.	Tol.	ESR	Part Number
0.55mm	4Vdc	X7S	1.0µF	±20%	100m Ω	LLR185C70G105ME01#
				±20%	220mΩ	LLR185C70G105ME03#
				±20%	470mΩ	LLR185C70G105ME05#
				±20%	1000mΩ	LLR185C70G105ME07#



■ 1.6×0.8mm

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number	
0.55mm	4Vdc	X7S	0.1µF	±20%	LLA185C70G104MA01#	
			0.22µF	±20%	LLA185C70G224MA01#	
			0.47µF	±20%	LLA185C70G474MA01#	
			1.0µF	±20%	LLA185C70G105ME01#	
			2.2µF	±20%	LLA185C70G225ME16#	

T max.	Rated Voltage	TC Code	Сар.	Tol.	Part Number
0.95mm	25Vdc	X7R	22000pF	±20%	LLA219R71E223MA01#
			47000pF	±20%	LLA219R71E473MA01#
	16Vdc	X7R	0.1µF	±20%	LLA219R71C104MA01#
			0.22µF	±20%	LLA219R71C224MA01#
	10Vdc	X7R	0.47µF	±20%	LLA219R71A474MA01#
	6.3Vdc	X7R	1.0µF	±20%	LLA219R70J105MA01#
	4Vdc	X7S	2.2µF	±20%	LLA219C70G225MA01#
			4.7µF	±20%	LLA219C70G475ME01#

■ 2.0×1.25mm

T max.	Rated Voltage	TC Code	Сар.	Tol.	Part Number
0.55mm	25Vdc	X7R	10000pF	±20%	LLA215R71E103MA14#
			22000pF	±20%	LLA215R71E223MA14#
	16Vdc	X7R	47000pF	±20%	LLA215R71C473MA14#
			0.1µF	±20%	LLA215R71C104MA14#
	10Vdc	X7R	0.22µF	±20%	LLA215R71A224MA14#
	6.3Vdc	X7R	0.47µF	±20%	LLA215R70J474MA14#
	4Vdc	X7S	1.0µF	±20%	LLA215C70G105MA14#
			2.2µF	±20%	LLA215C70G225ME11#
			4.7µF	±20%	LLA215C70G475ME19#
0.95mm	25Vdc	X7R	10000pF	±20%	LLA219R71E103MA01#

■ 3.2×1.6mm

T max.	Rated Voltage	TC Code	Сар.	Tol.	Part Number	
0.55mm	16Vdc	X7R	0.22µF	±20%	LLA315R71C224MA14#	
	10Vdc	X7R	0.47µF	±20%	LLA315R71A474MA14#	
	6.3Vdc	X7R	1.0µF	±20%	LLA315R70J105MA14#	
			2.2µF	±20%	LLA315R70J225MA14#	
0.95mm	16Vdc	X7R	0.47µF	±20%	LLA319R71C474MA01#	
	10Vdc	X7R	1.0µF	±20%	LLA319R71A105MA01#	
1.25mm	16Vdc	X7R	1.0µF	±20%	LLA31MR71C105MA01#	
	10Vdc	X7R	2.2µF	±20%	LLA31MR71A225MA01#	

LLM Series High Dielectric Constant Type 🖭 Part Number List

■ 2.0×1.25mm

T max.	Rated Voltage	TC Code	Сар.	Tol.	Part Number
0.55mm	25Vdc	X7R	10000pF	±20%	LLM215R71E103MA11#
			22000pF	±20%	LLM215R71E223MA11#
	16Vdc	X7R	47000pF	±20%	LLM215R71C473MA11#
			0.1µF	±20%	LLM215R71C104MA11#
	6.3Vdc	X7R	0.22µF	±20%	LLM215R70J224MA11#
			0.47µF	±20%	LLM215R70J474MA11#
	4Vdc	X7S	1.0µF	±20%	LLM215C70G105MA11#
			2.2µF	±20%	LLM215C70G225ME11#

■ 3.2×1.6mm

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number	
0.55mm	16Vdc	X7R	0.1µF	±20%	LLM315R71C104MA11#	
			0.22µF	±20%	LLM315R71C224MA11#	
	10Vdc	X7R	0.47µF	±20%	LLM315R71A474MA11#	_
	6.3Vdc	X7R	2.2µF	±20%	LLM315R70J225MA11#	_

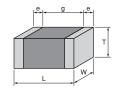
Chip Monolithic Ceramic Capacitors

High-Q Type GJM Series

HiQ

Contributes to improvements in the reduction of power consumption and processing yield by HiQ or low ESR.





- 1 Ideal for high-frequency decoupling applications.
- 2 HiQ and low ESR in VHF, UHF and microwave frequency bands.
- 3 Compatible to tight tolerances.



For General Purpose GRM Series

Capacitor Array GNM Series

GJM Series Temperature Compensating Type Hio Part Number List

0.4×0.2mm Compact

Т	Rated	тс			_
max.	Voltage		Cap.	Tol.	Part Number
0.22mm	16Vdc	COG	0.2pF	±0.05pF	GJM0225C1CR20WB01#
				±0.1pF	GJM0225C1CR20BB01#
			0.3pF	±0.05pF	GJM0225C1CR30WB01#
				±0.1pF	GJM0225C1CR30BB01#
			0.4pF	±0.05pF	GJM0225C1CR40WB01#
				±0.1pF	GJM0225C1CR40BB01#
			0.5pF	±0.05pF	GJM0225C1CR50WB01#
				±0.1pF	GJM0225C1CR50BB01#
			0.6pF	±0.05pF	GJM0225C1CR60WB01#
				±0.1pF	GJM0225C1CR60BB01#
			0.7pF	±0.05pF	GJM0225C1CR70WB01#
				±0.1pF	GJM0225C1CR70BB01#
			0.8pF	±0.05pF	GJM0225C1CR80WB01#
				±0.1pF	GJM0225C1CR80BB01#
			0.9pF	±0.05pF	GJM0225C1CR90WB01#
				±0.1pF	GJM0225C1CR90BB01#
			1.0pF	±0.05pF	GJM0225C1C1R0WB01#
				±0.1pF	GJM0225C1C1R0BB01#
				±0.25pF	GJM0225C1C1R0CB01#
			1.1pF	±0.05pF	GJM0225C1C1R1WB01#
				±0.1pF	GJM0225C1C1R1BB01#
				±0.25pF	GJM0225C1C1R1CB01#
			1.2pF	±0.05pF	GJM0225C1C1R2WB01#
				±0.1pF	GJM0225C1C1R2BB01#
				±0.25pF	GJM0225C1C1R2CB01#
			1.3pF	±0.05pF	GJM0225C1C1R3WB01#
				±0.1pF	GJM0225C1C1R3BB01#
				±0.25pF	GJM0225C1C1R3CB01#
			1.4pF	±0.05pF	GJM0225C1C1R4WB01#
				±0.1pF	GJM0225C1C1R4BB01#
				±0.25pF	GJM0225C1C1R4CB01#
			1.5pF	±0.05pF	GJM0225C1C1R5WB01#
			•	±0.1pF	GJM0225C1C1R5BB01#
				±0.25pF	GJM0225C1C1R5CB01#
			1.6pF	±0.05pF	GJM0225C1C1R6WB01#
			•	±0.1pF	GJM0225C1C1R6BB01#
				±0.25pF	GJM0225C1C1R6CB01#
			1.7pF	±0.05pF	GJM0225C1C1R7WB01#
			14.	±0.1pF	GJM0225C1C1R7BB01#
				±0.25pF	GJM0225C1C1R7CB01#
			1.8pF	±0.05pF	GJM0225C1C1R8WB01#
			- 14.	±0.1pF	GJM0225C1C1R8BB01#
				±0.25pF	GJM0225C1C1R8CB01#
			1.9pF	±0.05pF	GJM0225C1C1R9WB01#
				±0.1pF	GJM0225C1C1R9BB01#
				±0.25pF	GJM0225C1C1R9CB01#
			2.0pF	±0.05pF	GJM0225C1C2R0WB01#
			vpi	±0.05pi	GJM0225C1C2R0BB01#
				±0.1pF	GJM0225C1C2R0CB01#
			2.1pF	±0.25pF	GJM0225C1C2R1WB01#
			2. i þi	±0.05pF	GJM0225C1C2R1BB01#
				-	
				±0.25pF	GJM0225C1C2R1CB01#

T max.	Rated Voltage	TC Code	Сар.	Tol.	Part Number	
0.22mm	16Vdc	C0G	2.2pF	±0.05pF	GJM0225C1C2R2WB01#	
				±0.1pF	GJM0225C1C2R2BB01#	
				±0.25pF	GJM0225C1C2R2CB01#	
			2.3pF	±0.05pF	GJM0225C1C2R3WB01#	
				±0.1pF	GJM0225C1C2R3BB01#	
				±0.25pF	GJM0225C1C2R3CB01#	
			2.4pF	±0.05pF	GJM0225C1C2R4WB01#	
				±0.1pF	GJM0225C1C2R4BB01#	
				±0.25pF	GJM0225C1C2R4CB01#	
			2.5pF	±0.05pF	GJM0225C1C2R5WB01#	
				±0.1pF	GJM0225C1C2R5BB01#	
				±0.25pF	GJM0225C1C2R5CB01#	
			2.6pF	±0.05pF	GJM0225C1C2R6WB01#	
				±0.1pF	GJM0225C1C2R6BB01#	
				±0.25pF	GJM0225C1C2R6CB01#	
			2.7pF	±0.05pF	GJM0225C1C2R7WB01#	
				±0.1pF	GJM0225C1C2R7BB01#	
				±0.25pF	GJM0225C1C2R7CB01#	
			2.8pF	±0.05pF	GJM0225C1C2R8WB01#	
				±0.1pF	GJM0225C1C2R8BB01#	
				±0.25pF	GJM0225C1C2R8CB01#	
			2.9pF	±0.05pF	GJM0225C1C2R9WB01#	
				±0.1pF	GJM0225C1C2R9BB01#	
				±0.25pF	GJM0225C1C2R9CB01#	
			3.0pF	±0.05pF	GJM0225C1C3R0WB01#	
				±0.1pF	GJM0225C1C3R0BB01#	
				±0.25pF	GJM0225C1C3R0CB01#	
			3.1pF	±0.05pF	GJM0225C1C3R1WB01#	
				±0.1pF	GJM0225C1C3R1BB01#	
			2.05	±0.25pF	GJM0225C1C3R1CB01#	
			3.2pF	±0.05pF ±0.1pF	GJM0225C1C3R2WB01# GJM0225C1C3R2BB01#	
				±0.25pF	GJM0225C1C3R2CB01#	
			3.3pF	±0.25pi	GJM0225C1C3R3WB01#	
			0.0pi	±0.05pi	GJM0225C1C3R3BB01#	
				±0.25pF	GJM0225C1C3R3CB01#	
			3.4pF	±0.05pF		
			J. 191	±0.1pF	GJM0225C1C3R4BB01#	
				±0.25pF		
			3.5pF	±0.05pF		
			- 14.	±0.1pF	GJM0225C1C3R5BB01#	
				±0.25pF	GJM0225C1C3R5CB01#	
			3.6pF	±0.05pF		
				±0.1pF	GJM0225C1C3R6BB01#	
				±0.25pF		
			3.7pF	±0.05pF		
				±0.1pF	GJM0225C1C3R7BB01#	
				±0.25pF	GJM0225C1C3R7CB01#	
			3.8pF	±0.05pF	GJM0225C1C3R8WB01#	
				±0.1pF	GJM0225C1C3R8BB01#	
				±0.25pF	GJM0225C1C3R8CB01#	
			3.9pF	±0.05pF	GJM0225C1C3R9WB01#	
				±0.1pF	GJM0225C1C3R9BB01#	
				±0.25pF	GJM0225C1C3R9CB01#	



(→ **■** 0.4×0.2mm)

T max.	Rated Voltage	TC Code	Сар.	Tol.	Part Number
0.22mm	16Vdc	COG	4.0pF	±0.05pF	GJM0225C1C4R0WB01#
				±0.1pF	GJM0225C1C4R0BB01#
				±0.25pF	GJM0225C1C4R0CB01#
			4.1pF	±0.05pF	GJM0225C1C4R1WB01#
				±0.1pF	GJM0225C1C4R1BB01#
				±0.25pF	GJM0225C1C4R1CB01#
			4.2pF	±0.05pF	GJM0225C1C4R2WB01#
				±0.1pF	GJM0225C1C4R2BB01#
				±0.25pF	GJM0225C1C4R2CB01#
			4.3pF	±0.05pF	GJM0225C1C4R3WB01#
			4.5pr	-	
				±0.1pF	GJM0225C1C4R3BB01#
				±0.25pF	GJM0225C1C4R3CB01#
			4.4pF	±0.05pF	GJM0225C1C4R4WB01#
				±0.1pF	GJM0225C1C4R4BB01#
				±0.25pF	GJM0225C1C4R4CB01#
			4.5pF	±0.05pF	GJM0225C1C4R5WB01#
				±0.1pF	GJM0225C1C4R5BB01#
				±0.25pF	GJM0225C1C4R5CB01#
			4.6pF	±0.05pF	GJM0225C1C4R6WB01#
				±0.1pF	GJM0225C1C4R6BB01#
				±0.25pF	GJM0225C1C4R6CB01#
		4.7pF	±0.05pF	GJM0225C1C4R7WB01#	
				±0.1pF	GJM0225C1C4R7BB01#
				±0.25pF	GJM0225C1C4R7CB01#
			4.8pF	±0.05pF	GJM0225C1C4R8WB01#
				±0.1pF	GJM0225C1C4R8BB01#
				±0.25pF	GJM0225C1C4R8CB01#
			4.9pF	±0.05pF	GJM0225C1C4R9WB01#
				±0.1pF	GJM0225C1C4R9BB01#
				±0.25pF	GJM0225C1C4R9CB01#
			5.0pF	±0.05pF	GJM0225C1C5R0WB01#
			3.0pi	±0.05pi	
				· ·	GJM0225C1C5R0BB01#
				±0.25pF	GJM0225C1C5R0CB01#
			5.1pF	±0.05pF	
				±0.1pF	GJM0225C1C5R1BB01#
				±0.25pF	GJM0225C1C5R1CB01#
				±0.5pF	GJM0225C1C5R1DB01#
			5.2pF	±0.05pF	GJM0225C1C5R2WB01#
				±0.1pF	GJM0225C1C5R2BB01#
				±0.25pF	GJM0225C1C5R2CB01#
				±0.5pF	GJM0225C1C5R2DB01#
			5.3pF	±0.05pF	GJM0225C1C5R3WB01#
				±0.1pF	GJM0225C1C5R3BB01#
			±0.25pF	GJM0225C1C5R3CB01#	
			±0.5pF	GJM0225C1C5R3DB01#	
		5.4pF	±0.05pF	GJM0225C1C5R4WB01#	
			•	±0.1pF	GJM0225C1C5R4BB01#
				±0.25pF	GJM0225C1C5R4CB01#
				±0.5pF	GJM0225C1C5R4DB01#
			5.5pF	±0.05pF	GJM0225C1C5R5WB01#
			υ.υμι	-	GJM0225C1C5R5WB01#
				±0.1pF	
				±0.25pF	GJM0225C1C5R5CB01#
				±0.5pF	GJM0225C1C5R5DB01#
			5.6pF	±0.05pF	GJM0225C1C5R6WB01#

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number	
0.22mm	16Vdc	COG	5.6pF	±0.1pF	GJM0225C1C5R6BB01#	
				±0.25pF	GJM0225C1C5R6CB01#	
				±0.5pF	GJM0225C1C5R6DB01#	
			5.7pF	±0.05pF	GJM0225C1C5R7WB01#	
				±0.1pF	GJM0225C1C5R7BB01#	
				±0.25pF	GJM0225C1C5R7CB01#	
				±0.5pF	GJM0225C1C5R7DB01#	
			5.8pF	±0.05pF	GJM0225C1C5R8WB01#	
				±0.1pF	GJM0225C1C5R8BB01#	
				±0.25pF	GJM0225C1C5R8CB01#	
				±0.5pF	GJM0225C1C5R8DB01#	
			5.9pF	±0.05pF	GJM0225C1C5R9WB01#	
				±0.1pF	GJM0225C1C5R9BB01#	
				±0.25pF	GJM0225C1C5R9CB01#	
				±0.5pF	GJM0225C1C5R9DB01#	
			6.0pF	±0.05pF	GJM0225C1C6R0WB01#	
				±0.1pF	GJM0225C1C6R0BB01#	
				±0.25pF	GJM0225C1C6R0CB01#	
				±0.5pF	GJM0225C1C6R0DB01#	
			6.1pF	±0.05pF	GJM0225C1C6R1WB01#	
				±0.1pF	GJM0225C1C6R1BB01#	
				±0.25pF	GJM0225C1C6R1CB01#	
				±0.5pF	GJM0225C1C6R1DB01#	
			6.2pF	±0.05pF	GJM0225C1C6R2WB01#	
				±0.1pF	GJM0225C1C6R2BB01#	
				±0.25pF	GJM0225C1C6R2CB01#	
				±0.5pF	GJM0225C1C6R2DB01#	
			6.3pF	±0.05pF	GJM0225C1C6R3WB01#	
				±0.1pF	GJM0225C1C6R3BB01#	
				±0.25pF	GJM0225C1C6R3CB01#	
				±0.5pF	GJM0225C1C6R3DB01#	
			6.4pF	±0.05pF	GJM0225C1C6R4WB01#	
				±0.1pF	GJM0225C1C6R4BB01#	
				±0.25pF	GJM0225C1C6R4CB01#	
				±0.5pF	GJM0225C1C6R4DB01#	
			6.5pF	±0.05pF	GJM0225C1C6R5WB01#	
				±0.1pF	GJM0225C1C6R5BB01#	
				±0.25pF	GJM0225C1C6R5CB01#	
				±0.5pF	GJM0225C1C6R5DB01#	
			6.6pF	±0.05pF	GJM0225C1C6R6WB01#	
			·	±0.1pF	GJM0225C1C6R6BB01#	
				±0.25pF	GJM0225C1C6R6CB01#	
				±0.5pF	GJM0225C1C6R6DB01#	_
			6.7pF	±0.05pF	GJM0225C1C6R7WB01#	
			•	±0.1pF	GJM0225C1C6R7BB01#	
				±0.25pF		
				±0.5pF	GJM0225C1C6R7DB01#	_
			6.8pF	±0.05pF	GJM0225C1C6R8WB01#	
			p	±0.1pF	GJM0225C1C6R8BB01#	_
				±0.25pF	GJM0225C1C6R8CB01#	
			C 05 F	±0.5pF	GJM0225C1C6R8DB01#	_
				±0.5pi	3311102230 100110DB01#	
			6 an=	+0.0555	G.IM0225C1C6B0WB01#	
			6.9pF	±0.05pF ±0.1pF	GJM0225C1C6R9WB01# GJM0225C1C6R9BB01#	_

For General Purpose GRM Series

Capacitor Array GNM Series

> Low ESL LL□ Series

GJM Series Temperature Compensating Type High Part Number List

(→ **■** 0.4×0.2mm)

(→ ■ 0	.4×0.2ı	mm)			
T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number
0.22mm	16Vdc	COG	6.9pF	±0.5pF	GJM0225C1C6R9DB01#
			7.0pF	±0.05pF	GJM0225C1C7R0WB01#
				±0.1pF	GJM0225C1C7R0BB01#
				±0.25pF	GJM0225C1C7R0CB01#
				±0.5pF	GJM0225C1C7R0DB01#
			7.1pF	±0.05pF	GJM0225C1C7R1WB01#
				±0.1pF	GJM0225C1C7R1BB01#
				±0.25pF	GJM0225C1C7R1CB01#
				±0.5pF	GJM0225C1C7R1DB01#
			7.2pF	±0.05pF	GJM0225C1C7R2WB01#
				±0.1pF	GJM0225C1C7R2BB01#
				±0.25pF	GJM0225C1C7R2CB01#
				±0.5pF	GJM0225C1C7R2DB01#
			7.3pF	±0.05pF	GJM0225C1C7R3WB01#
				±0.1pF	GJM0225C1C7R3BB01#
				±0.25pF	GJM0225C1C7R3CB01#
				±0.5pF	GJM0225C1C7R3DB01#
			7.4pF	±0.05pF	GJM0225C1C7R4WB01#
			•	±0.1pF	GJM0225C1C7R4BB01#
				±0.25pF	GJM0225C1C7R4CB01#
				±0.5pF	GJM0225C1C7R4DB01#
			7.5pF	±0.05pF	GJM0225C1C7R5WB01#
				±0.1pF	GJM0225C1C7R5BB01#
				±0.25pF	GJM0225C1C7R5CB01#
				±0.5pF	GJM0225C1C7R5DB01#
			7.6pF	±0.05pF	GJM0225C1C7R6WB01#
			•	±0.1pF	GJM0225C1C7R6BB01#
				±0.25pF	GJM0225C1C7R6CB01#
				±0.5pF	GJM0225C1C7R6DB01#
			7.7pF	±0.05pF	GJM0225C1C7R7WB01#
			, p .	±0.1pF	GJM0225C1C7R7BB01#
				±0.25pF	GJM0225C1C7R7CB01#
				±0.5pF	GJM0225C1C7R7DB01#
			7.8pF	±0.05pF	GJM0225C1C7R8WB01#
			•	±0.1pF	GJM0225C1C7R8BB01#
				±0.25pF	GJM0225C1C7R8CB01#
				±0.5pF	GJM0225C1C7R8DB01#
			7.9pF	±0.05pF	
			•	±0.1pF	GJM0225C1C7R9BB01#
				±0.25pF	GJM0225C1C7R9CB01#
				±0.5pF	GJM0225C1C7R9DB01#
			8.0pF	±0.05pF	GJM0225C1C8R0WB01#
			•	±0.1pF	GJM0225C1C8R0BB01#
				±0.25pF	GJM0225C1C8R0CB01#
				±0.5pF	GJM0225C1C8R0DB01#
			8.1pF	±0.05pF	
			•	±0.1pF	GJM0225C1C8R1BB01#
				±0.25pF	GJM0225C1C8R1CB01#
				±0.5pF	GJM0225C1C8R1DB01#
			8.2pF	±0.05pF	GJM0225C1C8R2WB01#
			15.5	±0.1pF	GJM0225C1C8R2BB01#
				±0.25pF	
				±0.5pF	GJM0225C1C8R2DB01#
			8.3pF	±0.05pF	GJM0225C1C8R3WB01#
			J.0pi	_0.00pi	

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number	
.22mm	16Vdc	COG	8.3pF	±0.1pF	GJM0225C1C8R3BB01#	
				±0.25pF	GJM0225C1C8R3CB01#	
				±0.5pF	GJM0225C1C8R3DB01#	
			8.4pF	±0.05pF	GJM0225C1C8R4WB01#	
				±0.1pF	GJM0225C1C8R4BB01#	
				±0.25pF	GJM0225C1C8R4CB01#	
				±0.5pF	GJM0225C1C8R4DB01#	
			8.5pF	±0.05pF	GJM0225C1C8R5WB01#	
				±0.1pF	GJM0225C1C8R5BB01#	
				±0.25pF	GJM0225C1C8R5CB01#	
				±0.5pF	GJM0225C1C8R5DB01#	
			8.6pF	±0.05pF	GJM0225C1C8R6WB01#	
				±0.1pF	GJM0225C1C8R6BB01#	
				±0.25pF	GJM0225C1C8R6CB01#	
				±0.5pF	GJM0225C1C8R6DB01#	
			8.7pF	±0.05pF	GJM0225C1C8R7WB01#	
				±0.1pF	GJM0225C1C8R7BB01#	
				±0.25pF	GJM0225C1C8R7CB01#	
				±0.5pF	GJM0225C1C8R7DB01#	
			8.8pF	±0.05pF	GJM0225C1C8R8WB01#	
				±0.1pF	GJM0225C1C8R8BB01#	
				±0.25pF	GJM0225C1C8R8CB01#	
				±0.5pF	GJM0225C1C8R8DB01#	
			8.9pF	±0.05pF	GJM0225C1C8R9WB01#	
				±0.1pF	GJM0225C1C8R9BB01#	
				±0.25pF	GJM0225C1C8R9CB01#	
				±0.5pF	GJM0225C1C8R9DB01#	
			9.0pF	±0.05pF	GJM0225C1C9R0WB01#	
				±0.1pF	GJM0225C1C9R0BB01#	
				±0.25pF	GJM0225C1C9R0CB01#	
				±0.5pF	GJM0225C1C9R0DB01#	
			9.1pF	±0.05pF	GJM0225C1C9R1WB01#	
				±0.1pF	GJM0225C1C9R1BB01#	
				±0.25pF	GJM0225C1C9R1CB01#	
				±0.5pF	GJM0225C1C9R1DB01#	
			9.2pF	±0.05pF		
				±0.1pF	GJM0225C1C9R2BB01#	
				±0.25pF	GJM0225C1C9R2CB01#	
				±0.5pF	GJM0225C1C9R2DB01#	
			9.3pF	±0.05pF	GJM0225C1C9R3WB01#	
				±0.1pF	GJM0225C1C9R3BB01#	
				±0.25pF		
				±0.5pF	GJM0225C1C9R3DB01#	
			9.4pF	±0.05pF		
				±0.1pF	GJM0225C1C9R4BB01#	
				±0.25pF	GJM0225C1C9R4CB01#	
			0.5.5	±0.5pF	GJM0225C1C9R4DB01#	
			9.5pF	±0.05pF	GJM0225C1C9R5WB01#	
				±0.1pF	GJM0225C1C9R5BB01#	
				±0.25pF	GJM0225C1C9R5CB01#	
			0.655	±0.5pF	GJM0225C1C9R5DB01#	
			9.6pF	±0.05pF	GJM0225C1C9R6WB01#	
				±0.1pF	GJM0225C1C9R6BB01#	
				±0.25pF	GJM0225C1C9R6CB01#	_



(→ ■ 0.4×0.2mm)

T max.	Rated Voltage	TC Code	Сар.	Tol.	Part Number
).22mm	16Vdc	COG	9.6pF	±0.5pF	GJM0225C1C9R6DB01#
			9.7pF	±0.05pF	GJM0225C1C9R7WB01#
				±0.1pF	GJM0225C1C9R7BB01#
				±0.25pF	GJM0225C1C9R7CB01#
				±0.5pF	GJM0225C1C9R7DB01#
			9.8pF	±0.05pF	GJM0225C1C9R8WB01#
				±0.1pF	GJM0225C1C9R8BB01#
				±0.25pF	GJM0225C1C9R8CB01#
				±0.5pF	GJM0225C1C9R8DB01#
			9.9pF	±0.05pF	GJM0225C1C9R9WB01#
				±0.1pF	GJM0225C1C9R9BB01#
				±0.25pF	GJM0225C1C9R9CB01#
				±0.5pF	GJM0225C1C9R9DB01#
			10pF	±2%	GJM0225C1C100GB01#
			-1	±5%	GJM0225C1C100JB01#
		CK	0.2pF	±0.05pF	GJM0224C1CR20WB01#
		511	0.2pi	±0.05pi	GJM0224C1CR20BB01#
			0 3vE	-	GJM0224C1CR30WB01#
			0.3pF	±0.05pF	
			0.4=	±0.1pF	GJM0224C1CR30BB01#
			0.4pF	±0.05pF	GJM0224C1CR40WB01#
			0 = =	±0.1pF	GJM0224C1CR40BB01#
			0.5pF	±0.05pF	GJM0224C1CR50WB01#
				±0.1pF	GJM0224C1CR50BB01#
			0.6pF	±0.05pF	GJM0224C1CR60WB01#
				±0.1pF	GJM0224C1CR60BB01#
			0.7pF	±0.05pF	GJM0224C1CR70WB01#
				±0.1pF	GJM0224C1CR70BB01#
			0.8pF	±0.05pF	GJM0224C1CR80WB01#
				±0.1pF	GJM0224C1CR80BB01#
			0.9pF	±0.05pF	GJM0224C1CR90WB01#
				±0.1pF	GJM0224C1CR90BB01#
			1.0pF	±0.05pF	GJM0224C1C1R0WB01#
				±0.1pF	GJM0224C1C1R0BB01#
				±0.25pF	GJM0224C1C1R0CB01#
			1.1pF	±0.05pF	GJM0224C1C1R1WB01#
				±0.1pF	GJM0224C1C1R1BB01#
				±0.25pF	GJM0224C1C1R1CB01#
			1.2pF	±0.05pF	GJM0224C1C1R2WB01#
				±0.1pF	GJM0224C1C1R2BB01#
				±0.25pF	GJM0224C1C1R2CB01#
			1.3pF	±0.05pF	GJM0224C1C1R3WB01#
			1.001	±0.03pi	GJM0224C1C1R3BB01#
				· ·	
			1 45	±0.25pF	GJM0224C1C1R3CB01#
			1.4pF	±0.05pF	GJM0224C1C1R4WB01#
			±0.1pF	GJM0224C1C1R4BB01#	
			±0.25pF	GJM0224C1C1R4CB01#	
			1.5pF	±0.05pF	GJM0224C1C1R5WB01#
				±0.1pF	GJM0224C1C1R5BB01#
				±0.25pF	GJM0224C1C1R5CB01#
			1.6pF	±0.05pF	GJM0224C1C1R6WB01#
				±0.1pF	GJM0224C1C1R6BB01#
				±0.25pF	GJM0224C1C1R6CB01#
			1.7pF	±0.05pF	GJM0224C1C1R7WB01#
			±0.1pF	GJM0224C1C1R7BB01#	

T max.	Rated Voltage	TC Code	Сар.	Tol.	Part Number	
0.22mm	16Vdc	СК	1.7pF	±0.25pF	GJM0224C1C1R7CB01#	
			1.8pF	±0.05pF	GJM0224C1C1R8WB01#	
				±0.1pF	GJM0224C1C1R8BB01#	
				±0.25pF	GJM0224C1C1R8CB01#	
			1.9pF	±0.05pF	GJM0224C1C1R9WB01#	
				±0.1pF	GJM0224C1C1R9BB01#	
				±0.25pF	GJM0224C1C1R9CB01#	
			2.0pF	±0.05pF	GJM0224C1C2R0WB01#	
				±0.1pF	GJM0224C1C2R0BB01#	
				±0.25pF	GJM0224C1C2R0CB01#	
		CJ	2.1pF	±0.05pF	GJM0223C1C2R1WB01#	
				±0.1pF	GJM0223C1C2R1BB01#	
				±0.25pF	GJM0223C1C2R1CB01#	
			2.2pF	±0.05pF	GJM0223C1C2R2WB01#	
				±0.1pF	GJM0223C1C2R2BB01#	
				±0.25pF	GJM0223C1C2R2CB01#	
			2.3pF	±0.05pF	GJM0223C1C2R3WB01#	
				±0.1pF	GJM0223C1C2R3BB01#	
				±0.25pF	GJM0223C1C2R3CB01#	
			2.4pF	±0.05pF	GJM0223C1C2R4WB01#	
				±0.1pF	GJM0223C1C2R4BB01#	
				±0.25pF	GJM0223C1C2R4CB01#	
			2.5pF	±0.05pF	GJM0223C1C2R5WB01#	
				±0.1pF	GJM0223C1C2R5BB01#	
				±0.25pF	GJM0223C1C2R5CB01#	
			2.6pF	±0.05pF	GJM0223C1C2R6WB01#	
				±0.1pF	GJM0223C1C2R6BB01#	
				±0.25pF	GJM0223C1C2R6CB01#	
			2.7pF	±0.05pF	GJM0223C1C2R7WB01#	
				±0.1pF	GJM0223C1C2R7BB01#	
				±0.25pF	GJM0223C1C2R7CB01#	
			2.8pF	±0.05pF	GJM0223C1C2R8WB01#	
				±0.1pF	GJM0223C1C2R8BB01#	
				±0.25pF	GJM0223C1C2R8CB01#	
			2.9pF	±0.05pF	GJM0223C1C2R9WB01#	
				±0.1pF	GJM0223C1C2R9BB01#	
				±0.25pF	GJM0223C1C2R9CB01#	
			3.0pF	±0.05pF	GJM0223C1C3R0WB01#	
				±0.1pF	GJM0223C1C3R0BB01#	
				±0.25pF	GJM0223C1C3R0CB01#	
			3.1pF	±0.05pF	GJM0223C1C3R1WB01#	
				±0.1pF	GJM0223C1C3R1BB01#	
				±0.25pF	GJM0223C1C3R1CB01#	
			3.2pF	±0.05pF	GJM0223C1C3R2WB01#	
				±0.1pF	GJM0223C1C3R2BB01#	
			0	±0.25pF	GJM0223C1C3R2CB01#	
			3.3pF	±0.05pF	GJM0223C1C3R3WB01#	
				±0.1pF	GJM0223C1C3R3BB01#	
			2 45	±0.25pF	GJM0223C1C3R3CB01#	
			3.4pF	±0.05pF	GJM0223C1C3R4WB01#	
				±0.1pF	GJM0223C1C3R4BB01#	
			2 5nE	±0.25pF	GJM0223C1C3R4CB01# GJM0223C1C3R5WB01#	_
			3.5pF	±0.05pF		
				±0.1pF	GJM0223C1C3R5BB01#	

Part number # indicates the package specification code.



For General Purpose GRM Series

Capacitor Array GNM Series

GJM Series Temperature Compensating Type Hio **Part Number List**

(→ **■** 0.4×0.2mm)

<u> </u>	.4×0.2ı	,			
T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number
0.22mm	16Vdc	CJ	3.5pF	±0.25pF	GJM0223C1C3R5CB01#
			3.6pF	±0.05pF	GJM0223C1C3R6WB01#
				±0.1pF	GJM0223C1C3R6BB01#
				±0.25pF	GJM0223C1C3R6CB01#
			3.7pF	±0.05pF	GJM0223C1C3R7WB01#
				±0.1pF	GJM0223C1C3R7BB01#
				±0.25pF	GJM0223C1C3R7CB01#
			3.8pF	±0.05pF	GJM0223C1C3R8WB01#
				±0.1pF	GJM0223C1C3R8BB01#
				±0.25pF	GJM0223C1C3R8CB01#
			3.9pF	±0.05pF	GJM0223C1C3R9WB01#
				±0.1pF	GJM0223C1C3R9BB01#
				±0.25pF	GJM0223C1C3R9CB01#
		СН	4.0pF	±0.05pF	GJM0222C1C4R0WB01#
		011	4.0рі	±0.1pF	GJM0222C1C4R0BB01#
			1155	±0.25pF	GJM0222C1C4R0CB01#
			4.1pF	±0.05pF	GJM0222C1C4R1WB01#
				±0.1pF	GJM0222C1C4R1BB01#
				±0.25pF	GJM0222C1C4R1CB01#
			4.2pF	±0.05pF	GJM0222C1C4R2WB01#
				±0.1pF	GJM0222C1C4R2BB01#
				±0.25pF	GJM0222C1C4R2CB01#
			4.3pF	±0.05pF	GJM0222C1C4R3WB01#
				±0.1pF	GJM0222C1C4R3BB01#
				±0.25pF	GJM0222C1C4R3CB01#
			4.4pF	±0.05pF	GJM0222C1C4R4WB01#
				±0.1pF	GJM0222C1C4R4BB01#
				±0.25pF	GJM0222C1C4R4CB01#
			4.5pF	±0.05pF	GJM0222C1C4R5WB01#
				±0.1pF	GJM0222C1C4R5BB01#
				±0.25pF	GJM0222C1C4R5CB01#
			4.6pF	±0.05pF	GJM0222C1C4R6WB01#
				±0.1pF	GJM0222C1C4R6BB01#
				±0.25pF	GJM0222C1C4R6CB01#
			4.7pF	±0.05pF	GJM0222C1C4R7WB01#
			•	±0.1pF	GJM0222C1C4R7BB01#
				±0.25pF	GJM0222C1C4R7CB01#
			4.8pF	±0.05pF	GJM0222C1C4R8WB01#
				±0.1pF	GJM0222C1C4R8BB01#
				±0.25pF	GJM0222C1C4R8CB01#
			4.9pF	±0.05pF	GJM0222C1C4R9WB01#
			4.5pi		GJM0222C1C4R9BB01#
				±0.1pF	
			F 0-F	±0.25pF	GJM0222C1C4R9CB01#
			5.0pF	±0.05pF	GJM0222C1C5R0WB01#
				±0.1pF	GJM0222C1C5R0BB01#
				±0.25pF	GJM0222C1C5R0CB01#
			5.1pF	±0.05pF	GJM0222C1C5R1WB01#
				±0.1pF	GJM0222C1C5R1BB01#
				±0.25pF	GJM0222C1C5R1CB01#
				±0.5pF	GJM0222C1C5R1DB01#
			5.2pF	±0.05pF	GJM0222C1C5R2WB01#
				±0.1pF	GJM0222C1C5R2BB01#
				±0.25pF	GJM0222C1C5R2CB01#
		1		±0.5pF	GJM0222C1C5R2DB01#

T max.	Rated Voltage	TC Code	Сар.	Tol.	Part Number
0.22mm	16Vdc	СН	5.3pF	±0.05pF	GJM0222C1C5R3WB01#
				±0.1pF	GJM0222C1C5R3BB01#
				±0.25pF	GJM0222C1C5R3CB01#
				±0.5pF	GJM0222C1C5R3DB01#
			5.4pF	±0.05pF	GJM0222C1C5R4WB01#
				±0.1pF	GJM0222C1C5R4BB01#
				±0.25pF	GJM0222C1C5R4CB01#
				±0.5pF	GJM0222C1C5R4DB01#
			5.5pF	±0.05pF	GJM0222C1C5R5WB01#
				±0.1pF	GJM0222C1C5R5BB01#
				±0.25pF	GJM0222C1C5R5CB01#
				±0.5pF	GJM0222C1C5R5DB01#
			5.6pF	±0.05pF	GJM0222C1C5R6WB01#
				±0.1pF	GJM0222C1C5R6BB01#
				±0.25pF	GJM0222C1C5R6CB01#
				±0.5pF	GJM0222C1C5R6DB01#
			5.7pF	±0.05pF	GJM0222C1C5R7WB01#
				±0.1pF	GJM0222C1C5R7BB01#
				±0.25pF	GJM0222C1C5R7CB01#
				±0.5pF	GJM0222C1C5R7DB01#
			5.8pF	±0.05pF	GJM0222C1C5R8WB01#
				±0.1pF	GJM0222C1C5R8BB01#
				±0.25pF	GJM0222C1C5R8CB01#
				±0.5pF	GJM0222C1C5R8DB01#
			5.9pF	±0.05pF	GJM0222C1C5R9WB01#
				±0.1pF	GJM0222C1C5R9BB01#
				±0.25pF	GJM0222C1C5R9CB01#
				±0.5pF	GJM0222C1C5R9DB01#
			6.0pF	±0.05pF	GJM0222C1C6R0WB01#
				±0.1pF	GJM0222C1C6R0BB01#
				±0.25pF	GJM0222C1C6R0CB01#
				±0.5pF	GJM0222C1C6R0DB01#
			6.1pF	±0.05pF	GJM0222C1C6R1WB01#
				±0.1pF	GJM0222C1C6R1BB01#
				±0.25pF	GJM0222C1C6R1CB01#
				±0.5pF	GJM0222C1C6R1DB01#
			6.2pF	±0.05pF	GJM0222C1C6R2WB01#
				±0.1pF	GJM0222C1C6R2BB01#
				±0.25pF	GJM0222C1C6R2CB01#
				±0.5pF	GJM0222C1C6R2DB01#
			6.3pF	±0.05pF	GJM0222C1C6R3WB01#
				±0.1pF	GJM0222C1C6R3BB01#
				±0.25pF	GJM0222C1C6R3CB01#
				±0.5pF	GJM0222C1C6R3DB01#
			6.4pF	±0.05pF	GJM0222C1C6R4WB01#
				±0.1pF	GJM0222C1C6R4BB01#
				±0.25pF	
				±0.5pF	GJM0222C1C6R4DB01#
			6.5pF	±0.05pF	
				±0.1pF	GJM0222C1C6R5BB01#
				±0.25pF	
				±0.5pF	GJM0222C1C6R5DB01#
			6.6pF	±0.05pF	GJM0222C1C6R6WB01#
				±0.1pF	GJM0222C1C6R6BB01#



(→ **■** 0.4×0.2mm)

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number
0.22mm	16Vdc	СН	6.6pF	±0.25pF	GJM0222C1C6R6CB01#
				±0.5pF	GJM0222C1C6R6DB01#
			6.7pF	±0.05pF	GJM0222C1C6R7WB01#
				±0.1pF	GJM0222C1C6R7BB01#
				±0.25pF	GJM0222C1C6R7CB01#
				±0.5pF	GJM0222C1C6R7DB01#
			6.8pF	±0.05pF	GJM0222C1C6R8WB01#
				±0.1pF	GJM0222C1C6R8BB01#
					GJM0222C1C6R8CB01#
				±0.5pF	GJM0222C1C6R8DB01#
			6.9pF	-	GJM0222C1C6R9WB01#
			0.9pi	•	
				±0.1pF	GJM0222C1C6R9BB01#
				±0.25pF	GJM0222C1C6R9CB01#
				±0.5pF	GJM0222C1C6R9DB01#
			7.0pF	±0.05pF	GJM0222C1C7R0WB01#
				±0.1pF	GJM0222C1C7R0BB01#
				±0.25pF	GJM0222C1C7R0CB01#
				±0.5pF	GJM0222C1C7R0DB01#
			7.1pF	±0.05pF	GJM0222C1C7R1WB01#
				±0.1pF	GJM0222C1C7R1BB01#
				±0.25pF	GJM0222C1C7R1CB01#
				±0.5pF	GJM0222C1C7R1DB01#
			7.2pF	±0.05pF	GJM0222C1C7R2WB01#
				±0.1pF	GJM0222C1C7R2BB01#
				±0.25pF	GJM0222C1C7R2CB01#
				±0.5pF	GJM0222C1C7R2DB01#
			7.3pF	±0.05pF	GJM0222C1C7R3WB01#
				±0.1pF	GJM0222C1C7R3BB01#
				±0.25pF	GJM0222C1C7R3CB01#
				±0.5pF	GJM0222C1C7R3DB01#
			7.4pF	±0.05pF	GJM0222C1C7R4WB01#
			•	±0.1pF	GJM0222C1C7R4BB01#
				±0.25pF	GJM0222C1C7R4CB01#
				±0.5pF	GJM0222C1C7R4DB01#
			7.5pF	-	GJM0222C1C7R5WB01#
			7.0pi	±0.1pF	GJM0222C1C7R5BB01#
				±0.1pi	GJM0222C1C7R5CB01#
				-	GJM0222C1C7R5DB01#
			7 6 n E	±0.5pF	GJM0222C1C7R5DB01#
			7.6pF	±0.05pF	
				±0.1pF	GJM0222C1C7R6BB01#
				±0.25pF	GJM0222C1C7R6CB01#
			777	±0.5pF	GJM0222C1C7R6DB01#
			7.7pF	±0.05pF	GJM0222C1C7R7WB01#
				±0.1pF	GJM0222C1C7R7BB01#
				±0.25pF	GJM0222C1C7R7CB01#
				±0.5pF	GJM0222C1C7R7DB01#
			7.8pF	±0.05pF	GJM0222C1C7R8WB01#
				±0.1pF	GJM0222C1C7R8BB01#
				±0.25pF	GJM0222C1C7R8CB01#
				±0.5pF	GJM0222C1C7R8DB01#
			7.9pF	±0.05pF	GJM0222C1C7R9WB01#
				±0.1pF	GJM0222C1C7R9BB01#
				±0.25pF	GJM0222C1C7R9CB01#
		ı		±0.5pF	

0.22mm 16Vdc CH 8.0pF ±0.05pF GJM0222C1C8R0WB01 ±0.1pF GJM0222C1C8R0BB01: ±0.25pF GJM0222C1C8R0CB01: ±0.5pF GJM0222C1C8R0DB01: 8.1pF ±0.05pF GJM0222C1C8R1WB01: ±0.1pF GJM0222C1C8R1BB01:	
±0.25pF	
±0.5pF	
8.1pF ±0.05pF GJM0222C1C8R1WB01	
±0.1pF GJM0222C1C8R1BB01	ŧ
±0.25pF GJM0222C1C8R1CB01	
±0.5pF GJM0222C1C8R1DB01	
8.2pF ±0.05pF GJM0222C1C8R2WB01	ŧ
±0.1pF GJM0222C1C8R2BB01	
±0.25pF GJM0222C1C8R2CB01	
±0.5pF GJM0222C1C8R2DB01	
8.3pF ±0.05pF GJM0222C1C8R3WB01	ŧ
±0.1pF GJM0222C1C8R3BB01	
±0.25pF GJM0222C1C8R3CB01	
±0.5pF GJM0222C1C8R3DB01	
8.4pF ±0.05pF GJM0222C1C8R4WB01	ŧ
±0.1pF	
±0.25pF GJM0222C1C8R4CB01	
±0.5pF GJM0222C1C8R4DB01	
8.5pF ±0.05pF GJM0222C1C8R5WB01	ŧ
±0.1pF GJM0222C1C8R5BB01	
±0.25pF GJM0222C1C8R5CB01	
±0.5pF GJM0222C1C8R5DB01	
8.6pF ±0.05pF GJM0222C1C8R6WB01	ŧ
±0.1pF	
±0.25pF GJM0222C1C8R6CB01	
±0.5pF GJM0222C1C8R6DB01	
8.7pF ±0.05pF GJM0222C1C8R7WB01	ŧ
±0.1pF GJM0222C1C8R7BB01	
±0.25pF GJM0222C1C8R7CB01	
±0.5pF GJM0222C1C8R7DB01	
8.8pF ±0.05pF GJM0222C1C8R8WB01	ŧ
±0.1pF GJM0222C1C8R8BB01	
±0.25pF GJM0222C1C8R8CB01	
±0.5pF GJM0222C1C8R8DB01	
8.9pF ±0.05pF GJM0222C1C8R9WB01	ŧ
±0.1pF GJM0222C1C8R9BB01	
±0.25pF GJM0222C1C8R9CB01	
±0.5pF GJM0222C1C8R9DB01	
9.0pF ±0.05pF GJM0222C1C9R0WB01	ŧ
±0.1pF GJM0222C1C9R0BB01	
±0.25pF GJM0222C1C9R0CB01	
±0.5pF GJM0222C1C9R0DB01	
9.1pF ±0.05pF GJM0222C1C9R1WB01	ŧ
±0.1pF GJM0222C1C9R1BB01	
±0.25pF GJM0222C1C9R1CB01	
±0.5pF GJM0222C1C9R1DB01	
9.2pF ±0.05pF GJM0222C1C9R2WB01	ŧ
±0.1pF GJM0222C1C9R2BB01	
±0.25pF GJM0222C1C9R2CB01	
±0.5pF GJM0222C1C9R2DB01	
9.3pF ±0.05pF GJM0222C1C9R3WB01	ŧ
±0.1pF GJM0222C1C9R3BB01	

For General Purpose GRM Series

Capacitor Array GNM Series

Low ESL LL□ Series

GJM Series Temperature Compensating Type Hio Part Number List

Т

max. 0.33mm

Rated

Voltage

25Vdc

TC

Code

COG

Cap.

1.1pF

1.2pF

1.4pF

Tol.

±0.25pF

±0.05pF

±0.1pF ±0.25pF

±0.05pF

±0.1pF ±0.25pF

±0.05pF

±0.1pF

±0.25pF

Part Number

GJM0335C1E1R1CB01#

GJM0335C1E1R2WB01#

GJM0335C1E1R2BB01#

GJM0335C1E1R2CB01#

GJM0335C1E1R3WB01# GJM0335C1E1R3BB01#

GJM0335C1E1R3CB01# GJM0335C1E1R4WB01#

GJM0335C1E1R4BB01# GJM0335C1E1R4CB01#

(→ ■ 0.4×0.2mm)

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number
.22mm	16Vdc	СН	9.3pF	±0.25pF	GJM0222C1C9R3CB01#
				±0.5pF	GJM0222C1C9R3DB01#
			9.4pF	±0.05pF	GJM0222C1C9R4WB01#
				±0.1pF	GJM0222C1C9R4BB01#
				±0.25pF	GJM0222C1C9R4CB01#
				±0.5pF	GJM0222C1C9R4DB01#
			9.5pF	±0.05pF	GJM0222C1C9R5WB01#
				±0.1pF	GJM0222C1C9R5BB01#
				±0.25pF	GJM0222C1C9R5CB01#
				±0.5pF	GJM0222C1C9R5DB01#
			9.6pF	±0.05pF	GJM0222C1C9R6WB01#
				±0.1pF	GJM0222C1C9R6BB01#
				±0.25pF	GJM0222C1C9R6CB01#
				±0.5pF	GJM0222C1C9R6DB01#
			9.7pF	±0.05pF	GJM0222C1C9R7WB01#
				±0.1pF	GJM0222C1C9R7BB01#
				±0.25pF	GJM0222C1C9R7CB01#
				±0.5pF	GJM0222C1C9R7DB01#
			9.8pF	±0.05pF	GJM0222C1C9R8WB01#
				±0.1pF	GJM0222C1C9R8BB01#
					±0.25pF
				±0.5pF	GJM0222C1C9R8DB01#
			9.9pF	±0.05pF	GJM0222C1C9R9WB01#
				±0.1pF	GJM0222C1C9R9BB01#
				±0.25pF	GJM0222C1C9R9CB01#
				±0.5pF	GJM0222C1C9R9DB01#
			10pF	±2%	GJM0222C1C100GB01#
				±5%	GJM0222C1C100JB01#

0.6×0.3mm	Ultra- compac

T max.	Rated Voltage	TC Code	Сар.	Tol.	Part Number							
.33mm	25Vdc	COG	0.2pF	±0.05pF	GJM0335C1ER20WB01#							
				±0.1pF	GJM0335C1ER20BB01#							
			0.3pF	±0.05pF	GJM0335C1ER30WB01#							
				±0.1pF	GJM0335C1ER30BB01#							
			0.4pF	±0.05pF	GJM0335C1ER40WB01#							
				±0.1pF	GJM0335C1ER40BB01#							
			0.5pF	±0.05pF	GJM0335C1ER50WB01#							
				±0.1pF	GJM0335C1ER50BB01#							
			0.6pF	±0.05pF	GJM0335C1ER60WB01#							
							±0.1pF	GJM0335C1ER60BB01#				
			0.7pF	±0.05pF	GJM0335C1ER70WB01#							
				±0.1pF	GJM0335C1ER70BB01#							
			0.8pF	±0.05pF	GJM0335C1ER80WB01#							
											±0.1pF	GJM0335C1ER80BB01#
			0.9pF	±0.05pF	GJM0335C1ER90WB01#							
				±0.1pF	GJM0335C1ER90BB01#							
			1.0pF			1.0pF	±0.05pF	GJM0335C1E1R0WB01#				
				±0.1pF	GJM0335C1E1R0BB01#							
				±0.25pF	GJM0335C1E1R0CB01#							
			1.1pF	±0.05pF	GJM0335C1E1R1WB01#							
				±0.1pF	GJM0335C1E1R1BB01#							

1.5pF	±0.05pF	GJM0335C1E1R5WB01#	
	±0.1pF	GJM0335C1E1R5BB01#	
	±0.25pF	GJM0335C1E1R5CB01#	
1.6pF	±0.05pF	GJM0335C1E1R6WB01#	
	±0.1pF	GJM0335C1E1R6BB01#	
	±0.25pF	GJM0335C1E1R6CB01#	
1.7pF	±0.05pF	GJM0335C1E1R7WB01#	
	±0.1pF	GJM0335C1E1R7BB01#	
	±0.25pF	GJM0335C1E1R7CB01#	
1.8pF	±0.05pF	GJM0335C1E1R8WB01#	
	±0.1pF	GJM0335C1E1R8BB01#	
	±0.25pF	GJM0335C1E1R8CB01#	
1.9pF	±0.05pF	GJM0335C1E1R9WB01#	
	±0.1pF	GJM0335C1E1R9BB01#	
	±0.25pF	GJM0335C1E1R9CB01#	
2.0pF	±0.05pF	GJM0335C1E2R0WB01#	
	±0.1pF	GJM0335C1E2R0BB01#	
	±0.25pF	GJM0335C1E2R0CB01#	
2.1pF	±0.05pF	GJM0335C1E2R1WB01#	
	±0.1pF	GJM0335C1E2R1BB01#	
	±0.25pF	GJM0335C1E2R1CB01#	
2.2pF	±0.05pF	GJM0335C1E2R2WB01#	
	±0.1pF	GJM0335C1E2R2BB01#	
	±0.25pF	GJM0335C1E2R2CB01#	
2.3pF	±0.05pF	GJM0335C1E2R3WB01#	
	±0.1pF	GJM0335C1E2R3BB01#	
	±0.25pF	GJM0335C1E2R3CB01#	
2.4pF	±0.05pF	GJM0335C1E2R4WB01#	
	±0.1pF	GJM0335C1E2R4BB01#	
	±0.25pF	GJM0335C1E2R4CB01#	
2.5pF	±0.05pF	GJM0335C1E2R5WB01#	
	±0.1pF	GJM0335C1E2R5BB01#	
	±0.25pF	GJM0335C1E2R5CB01#	
2.6pF	±0.05pF	GJM0335C1E2R6WB01#	
	±0.1pF	GJM0335C1E2R6BB01#	
	±0.25pF	GJM0335C1E2R6CB01#	
2.7pF	±0.05pF	GJM0335C1E2R7WB01#	
	±0.1pF	GJM0335C1E2R7BB01#	
	±0.25pF	GJM0335C1E2R7CB01#	
2.8pF	±0.05pF	GJM0335C1E2R8WB01#	
	±0.1pF	GJM0335C1E2R8BB01#	
	±0.25pF	GJM0335C1E2R8CB01#	
2.9pF	±0.05pF	GJM0335C1E2R9WB01#	
	±0.1pF	GJM0335C1E2R9BB01#	
 Part nur	nber#indio	ates the package specification	code

Part number # indicates the package specification code.

(→ **■** 0.6×0.3mm)

T	Rated	TC	Cap.	Tol.	Part Number
max.	Voltage				
0.33mm	25Vdc	COG	2.9pF	±0.25pF	GJM0335C1E2R9CB01#
			3.0pF	±0.05pF	GJM0335C1E3R0WB01#
				±0.1pF	GJM0335C1E3R0BB01#
			0.4-5	±0.25pF	GJM0335C1E3R0CB01#
			3.1pF	±0.05pF	GJM0335C1E3R1WB01#
				±0.1pF	GJM0335C1E3R1BB01#
				±0.25pF	GJM0335C1E3R1CB01#
			3.2pF	±0.05pF	GJM0335C1E3R2WB01#
				±0.1pF	GJM0335C1E3R2BB01#
				±0.25pF	GJM0335C1E3R2CB01#
			3.3pF	±0.05pF	GJM0335C1E3R3WB01#
				±0.1pF	GJM0335C1E3R3BB01#
				±0.25pF	GJM0335C1E3R3CB01#
			3.4pF	±0.05pF	GJM0335C1E3R4WB01#
				±0.1pF	GJM0335C1E3R4BB01#
				±0.25pF	GJM0335C1E3R4CB01#
			3.5pF	±0.05pF	GJM0335C1E3R5WB01#
				±0.1pF	GJM0335C1E3R5BB01#
				±0.25pF	GJM0335C1E3R5CB01#
			3.6pF	±0.05pF	GJM0335C1E3R6WB01#
				±0.1pF	GJM0335C1E3R6BB01#
				±0.25pF	GJM0335C1E3R6CB01#
			3.7pF	±0.05pF	GJM0335C1E3R7WB01#
				±0.1pF	GJM0335C1E3R7BB01#
				±0.25pF	GJM0335C1E3R7CB01#
			3.8pF	±0.05pF	GJM0335C1E3R8WB01#
				±0.1pF	GJM0335C1E3R8BB01#
				±0.25pF	GJM0335C1E3R8CB01#
			3.9pF	±0.05pF	GJM0335C1E3R9WB01#
				±0.1pF	GJM0335C1E3R9BB01#
				±0.25pF	GJM0335C1E3R9CB01#
			4.0pF	±0.05pF	GJM0335C1E4R0WB01#
			•	±0.1pF	GJM0335C1E4R0BB01#
				±0.25pF	GJM0335C1E4R0CB01#
			4.1pF	±0.05pF	GJM0335C1E4R1WB01#
			•	±0.1pF	GJM0335C1E4R1BB01#
				±0.25pF	GJM0335C1E4R1CB01#
			4.2pF	±0.05pF	GJM0335C1E4R2WB01#
			p.	±0.1pF	GJM0335C1E4R2BB01#
				±0.25pF	GJM0335C1E4R2CB01#
			4.3pF	±0.05pF	GJM0335C1E4R3WB01#
			4.0рі	-	GJM0335C1E4R3BB01#
				±0.1pF ±0.25pF	GJM0335C1E4R3CB01#
			1 1nE		
			4.4pF	±0.05pF	GJM0335C1E4R4WB01#
				±0.1pF	GJM0335C1E4R4BB01#
			45-5	±0.25pF	GJM0335C1E4R4CB01#
			4.5pF	±0.05pF	GJM0335C1E4R5WB01#
				±0.1pF	GJM0335C1E4R5BB01#
				±0.25pF	GJM0335C1E4R5CB01#
			4.6pF	±0.05pF	GJM0335C1E4R6WB01#
				±0.1pF	GJM0335C1E4R6BB01#
				±0.25pF	GJM0335C1E4R6CB01#
			4.7pF	±0.05pF	GJM0335C1E4R7WB01#
				±0.1pF	GJM0335C1E4R7BB01#

	art Number
0.33mm 25Vdc C0G 4.7pF ±0.25pF GJM033	5C1E4R7CB01#
4.8pF ±0.05pF GJM033	5C1E4R8WB01#
±0.1pF GJM033	5C1E4R8BB01#
±0.25pF GJM033	5C1E4R8CB01#
4.9pF ±0.05pF GJM033	5C1E4R9WB01#
±0.1pF GJM033	5C1E4R9BB01#
±0.25pF GJM033	5C1E4R9CB01#
5.0pF ±0.05pF GJM033	5C1E5R0WB01#
±0.1pF GJM033	5C1E5R0BB01#
±0.25pF GJM033	5C1E5R0CB01#
5.1pF ±0.05pF GJM033	5C1E5R1WB01#
±0.1pF GJM033	5C1E5R1BB01#
±0.25pF GJM033	5C1E5R1CB01#
±0.5pF GJM033	5C1E5R1DB01#
5.2pF ±0.05pF GJM033	5C1E5R2WB01#
±0.1pF GJM033	5C1E5R2BB01#
±0.25pF GJM033	5C1E5R2CB01#
±0.5pF GJM033	5C1E5R2DB01#
5.3pF ±0.05pF GJM033	5C1E5R3WB01#
±0.1pF GJM033	5C1E5R3BB01#
±0.25pF GJM033	5C1E5R3CB01#
±0.5pF GJM033	5C1E5R3DB01#
5.4pF ±0.05pF GJM033	5C1E5R4WB01#
±0.1pF GJM033	5C1E5R4BB01#
±0.25pF GJM033	5C1E5R4CB01#
±0.5pF GJM033	5C1E5R4DB01#
5.5pF ±0.05pF GJM033	5C1E5R5WB01#
±0.1pF GJM033	5C1E5R5BB01#
±0.25pF GJM033	5C1E5R5CB01#
±0.5pF GJM033	5C1E5R5DB01#
5.6pF ±0.05pF GJM033 5	5C1E5R6WB01#
±0.1pF GJM033 5	5C1E5R6BB01#
±0.25pF GJM033 5	5C1E5R6CB01#
±0.5pF GJM033 5	5C1E5R6DB01#
5.7pF ±0.05pF GJM033 5	5C1E5R7WB01#
±0.1pF GJM033 5	5C1E5R7BB01#
±0.25pF GJM033 5	5C1E5R7CB01#
±0.5pF GJM033 5	5C1E5R7DB01#
5.8pF ±0.05pF GJM033 5	5C1E5R8WB01#
±0.1pF GJM033	5C1E5R8BB01#
±0.25pF GJM033	5C1E5R8CB01#
±0.5pF GJM033 5	5C1E5R8DB01#
5.9pF ±0.05pF GJM033 8	5C1E5R9WB01#
±0.1pF GJM033 5	5C1E5R9BB01#
±0.25pF GJM033	5C1E5R9CB01#
±0.5pF GJM033 5	5C1E5R9DB01#
6.0pF ±0.05pF GJM033 5	5C1E6R0WB01#
±0.1pF GJM033 8	5C1E6R0BB01#
±0.25pF GJM033 5	5C1E6R0CB01#
±0.5pF GJM033 5	5C1E6R0DB01#
6.1pF ±0.05pF GJM033 5	5C1E6R1WB01#
±0.1pF GJM033 5	5C1E6R1BB01#
±0.25pF GJM033 5	5C1E6R1CB01#
±0.5pF GJM033 5	5C1E6R1DB01#

For General Purpose GRM Series

Capacitor Array GNM Series

Low ESL LL□ Series

GJM Series Temperature Compensating Type Hio Part Number List

Т

max. 0.33mm

Rated Voltage

25Vdc

(→ **■** 0.6×0.3mm)

Т	Rated	TC	Сар.	Tol.	Part Number
max.	Voltage			10.05-5	O IMPONENTE CONVIDENT
0.33mm	25Vdc	COG	6.2pF	±0.05pF	GJM0335C1E6R2WB01#
				±0.1pF	GJM0335C1E6R2BB01#
				±0.25pF	GJM0335C1E6R2CB01#
			C 25F	±0.5pF	GJM0335C1E6R2DB01#
			6.3pF	±0.05pF	GJM0335C1E6R3WB01#
				±0.1pF	GJM0335C1E6R3BB01#
				±0.25pF	GJM0335C1E6R3CB01#
			6.4nE	±0.5pF	GJM0335C1E6R3DB01# GJM0335C1E6R4WB01#
			6.4pF	±0.05pF	
				±0.1pF	GJM0335C1E6R4BB01#
				±0.25pF	GJM0335C1E6R4CB01#
			0.5-5	±0.5pF	GJM0335C1E6R4DB01#
			6.5pF	±0.05pF	GJM0335C1E6R5WB01#
				±0.1pF	GJM0335C1E6R5BB01#
				±0.25pF	GJM0335C1E6R5CB01#
			00.5	±0.5pF	GJM0335C1E6R5DB01#
			6.6pF	±0.05pF	GJM0335C1E6R6WB01#
				±0.1pF	GJM0335C1E6R6BB01#
				±0.25pF	GJM0335C1E6R6CB01#
				±0.5pF	GJM0335C1E6R6DB01#
			6.7pF	±0.05pF	GJM0335C1E6R7WB01#
				±0.1pF	GJM0335C1E6R7BB01#
				±0.25pF	GJM0335C1E6R7CB01#
			C 0 = F	±0.5pF	GJM0335C1E6R7DB01#
			6.8pF	±0.05pF	GJM0335C1E6R8WB01#
				±0.1pF	GJM0335C1E6R8BB01#
				±0.25pF	GJM0335C1E6R8CB01#
		COLL	:0H 6.9nF	±0.5pF	GJM0335C1E6R8DB01#
		СОП	C0H 6.9pF	±0.05pF	GJM0336C1E6R9WB01#
		_		±0.1pF	GJM0336C1E6R9BB01#
				±0.25pF ±0.5pF	GJM0336C1E6R9CB01# GJM0336C1E6R9DB01#
			7.0pF	±0.05pF	GJM0336C1E7R0WB01#
			7.1pF	±0.05pi	GJM0336C1E7R0BB01#
				±0.1pi	GJM0336C1E7R0CB01#
				±0.5pF	GJM0336C1E7R0DB01#
				±0.05pF	GJM0336C1E7R1WB01#
			7.1pi	-	GJM0336C1E7R1BB01#
				±0.1pF ±0.25pF	GJM0336C1E7R1CB01#
				±0.25pF	GJM0336C1E7R1DB01#
			7.2pF	±0.05pF	GJM0336C1E7R2WB01#
			ι. ∠ μΓ	±0.05pF	GJM0336C1E7R2BB01#
				±0.1pF ±0.25pF	GJM0336C1E7R2CB01#
				-	
			7.2nE	±0.5pF	GJM0336C1E7R2DB01#
			7.3pF	±0.05pF ±0.1pF	GJM0336C1E7R3WB01# GJM0336C1E7R3BB01#
				±0.1pF ±0.25pF	GJM0336C1E7R3CB01#
				±0.25pF	GJM0336C1E7R3DB01#
			7.4pF	±0.05pF	GJM0336C1E7R4WB01#
			, . + μΓ	±0.05pF	GJM0336C1E7R4BB01#
				±0.1pr ±0.25pF	GJM0336C1E7R4CB01#
				±0.25pF	GJM0336C1E7R4CB01#
			7.5pF	±0.05pF	GJM0336C1E7R5WB01#
			ı.Jµ⊏	•	
				±0.1pF	GJM0336C1E7R5BB01#

TC Code	Сар.	Tol.	Part Number	
C0H	7.5pF	±0.25pF	GJM0336C1E7R5CB01#	
		±0.5pF	GJM0336C1E7R5DB01#	
	7.6pF	±0.05pF	GJM0336C1E7R6WB01#	
		±0.1pF	GJM0336C1E7R6BB01#	
		±0.25pF	GJM0336C1E7R6CB01#	
		±0.5pF	GJM0336C1E7R6DB01#	
	7.7pF	±0.05pF	GJM0336C1E7R7WB01#	
		±0.1pF	GJM0336C1E7R7BB01#	
		±0.25pF	GJM0336C1E7R7CB01#	
		±0.5pF	GJM0336C1E7R7DB01#	
	7.8pF	±0.05pF	GJM0336C1E7R8WB01#	
		±0.1pF	GJM0336C1E7R8BB01#	
		±0.25pF	GJM0336C1E7R8CB01#	
		±0.5pF	GJM0336C1E7R8DB01#	
	7.9pF	±0.05pF	GJM0336C1E7R9WB01#	
		±0.1pF	GJM0336C1E7R9BB01#	
		±0.25pF	GJM0336C1E7R9CB01#	
		±0.5pF	GJM0336C1E7R9DB01#	
	8.0pF	±0.05pF	GJM0336C1E8R0WB01#	
		±0.1pF	GJM0336C1E8R0BB01#	
		±0.25pF	GJM0336C1E8R0CB01#	
	- · -	±0.5pF	GJM0336C1E8R0DB01#	
	8.1pF	±0.05pF	GJM0336C1E8R1WB01#	
		±0.1pF	GJM0336C1E8R1BB01#	
		±0.25pF	GJM0336C1E8R1CB01#	
	0.0.5	±0.5pF	GJM0336C1E8R1DB01#	
	8.2pF	±0.05pF	GJM0336C1E8R2WB01#	
		±0.1pF	GJM0336C1E8R2BB01#	
		±0.25pF ±0.5pF	GJM0336C1E8R2CB01#	
	8.3pF	<u> </u>	GJM0336C1E8R2DB01# GJM0336C1E8R3WB01#	
	o.spr	±0.05pF ±0.1pF	GJM0336C1E8R3BB01#	
		±0.1pi	GJM0336C1E8R3CB01#	
		±0.5pF	GJM0336C1E8R3DB01#	
	8.4pF	±0.05pF	GJM0336C1E8R4WB01#	
	0рі	±0.1pF	GJM0336C1E8R4BB01#	
		±0.25pF	GJM0336C1E8R4CB01#	
		±0.5pF	GJM0336C1E8R4DB01#	
	8.5pF	±0.05pF	GJM0336C1E8R5WB01#	
	о.ор.	±0.1pF	GJM0336C1E8R5BB01#	
		±0.25pF	GJM0336C1E8R5CB01#	
		±0.5pF	GJM0336C1E8R5DB01#	
	8.6pF	±0.05pF	GJM0336C1E8R6WB01#	
		±0.1pF	GJM0336C1E8R6BB01#	
		±0.25pF	GJM0336C1E8R6CB01#	
		±0.5pF	GJM0336C1E8R6DB01#	
	8.7pF	±0.05pF	GJM0336C1E8R7WB01#	
		±0.1pF	GJM0336C1E8R7BB01#	
		±0.25pF	GJM0336C1E8R7CB01#	
		±0.5pF	GJM0336C1E8R7DB01#	
	8.8pF	±0.05pF	GJM0336C1E8R8WB01#	
	•	±0.1pF	GJM0336C1E8R8BB01#	
		±0.25pF	GJM0336C1E8R8CB01#	
		±0.5pF	GJM0336C1E8R8DB01#	
	Part nur	nber # indic	cates the package specification	code

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Product Information

GJM Series Temperature Compensating Type Fig Part Number List

, ,	.6×0.3r	11111)			
T max.	Rated Voltage	TC Code	Сар.	Tol.	Part Number
0.33mm	25Vdc	COH	8.9pF	±0.05pF	GJM0336C1E8R9WB01#
				±0.1pF	GJM0336C1E8R9BB01#
				±0.25pF	GJM0336C1E8R9CB01#
				±0.5pF	GJM0336C1E8R9DB01#
			9.0pF	±0.05pF	GJM0336C1E9R0WB01#
				±0.1pF	GJM0336C1E9R0BB01#
				±0.25pF	GJM0336C1E9R0CB01#
				±0.5pF	GJM0336C1E9R0DB01#
			9.1pF	±0.05pF	GJM0336C1E9R1WB01#
				±0.1pF	GJM0336C1E9R1BB01#
				±0.25pF	GJM0336C1E9R1CB01#
				±0.5pF	GJM0336C1E9R1DB01#
			9.2pF	±0.05pF	GJM0336C1E9R2WB01#
				±0.1pF	GJM0336C1E9R2BB01#
				±0.25pF	GJM0336C1E9R2CB01#
				±0.5pF	GJM0336C1E9R2DB01#
			9.3pF	±0.05pF	GJM0336C1E9R3WB01#
			3.5pi	±0.05pi	GJM0336C1E9R3BB01#
				-	GJM0336C1E9R3CB01#
				±0.25pF	GJM0336C1E9R3DB01#
			0.455	±0.5pF	
			9.4pF	±0.05pF	GJM0336C1E9R4WB01#
				±0.1pF	GJM0336C1E9R4BB01#
				±0.25pF	GJM0336C1E9R4CB01#
			0.5.5	±0.5pF	GJM0336C1E9R4DB01#
			9.5pF	±0.05pF	GJM0336C1E9R5WB01#
				±0.1pF	GJM0336C1E9R5BB01#
				±0.25pF	GJM0336C1E9R5CB01#
				±0.5pF	GJM0336C1E9R5DB01#
			9.6pF	±0.05pF	GJM0336C1E9R6WB01#
				±0.1pF	GJM0336C1E9R6BB01#
				±0.25pF	GJM0336C1E9R6CB01#
				±0.5pF	GJM0336C1E9R6DB01#
			9.7pF	±0.05pF	GJM0336C1E9R7WB01#
				±0.1pF	GJM0336C1E9R7BB01#
				±0.25pF	GJM0336C1E9R7CB01#
				±0.5pF	GJM0336C1E9R7DB01#
			9.8pF	±0.05pF	GJM0336C1E9R8WB01#
				±0.1pF	GJM0336C1E9R8BB01#
				±0.25pF	GJM0336C1E9R8CB01#
				±0.5pF	GJM0336C1E9R8DB01#
			9.9pF	±0.05pF	GJM0336C1E9R9WB01#
			•	±0.1pF	GJM0336C1E9R9BB01#
				±0.25pF	GJM0336C1E9R9CB01#
				±0.5pF	GJM0336C1E9R9DB01#
			10pF	±2%	GJM0336C1E100GB01#
			. 001	±5%	GJM0336C1E100JB01#
			11pF	±2%	GJM0336C1E110GB01#
			iiμr		GJM0336C1E110JB01#
			10-5	±5%	
			12pF	±2%	GJM0336C1E120GB01#
			10.5	±5%	GJM0336C1E120JB01#
			13pF	±2%	GJM0336C1E130GB01#
				±5%	GJM0336C1E130JB01#
			15nE	1.00/	C 1M0226C1E160CD01#
			15pF	±2%	GJM0336C1E150GB01#

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number	
0.33mm	25Vdc	COH	16pF	±2%	GJM0336C1E160GB01#	
			·	±5%	GJM0336C1E160JB01#	
			18pF	±2%	GJM0336C1E180GB01#	
				±5%	GJM0336C1E180JB01#	
			20pF	±2%	GJM0336C1E200GB01#	
				±5%	GJM0336C1E200JB01#	
		СК	0.2pF	±0.05pF	GJM0334C1ER20WB01#	
				±0.1pF	GJM0334C1ER20BB01#	
			0.3pF	±0.05pF	GJM0334C1ER30WB01#	
				±0.1pF	GJM0334C1ER30BB01#	
			0.4pF	±0.05pF	GJM0334C1ER40WB01#	
				±0.1pF	GJM0334C1ER40BB01#	
			0.5pF	±0.05pF	GJM0334C1ER50WB01#	
				±0.1pF	GJM0334C1ER50BB01#	
			0.6pF	±0.05pF	GJM0334C1ER60WB01#	
				±0.1pF	GJM0334C1ER60BB01#	
			0.7pF	±0.05pF	GJM0334C1ER70WB01#	
				±0.1pF	GJM0334C1ER70BB01#	
			0.8pF	±0.05pF	GJM0334C1ER80WB01#	
				±0.1pF	GJM0334C1ER80BB01#	
			0.9pF	±0.05pF	GJM0334C1ER90WB01#	
			10-5	±0.1pF	GJM0334C1ER90BB01#	
			1.0pF	±0.05pF	GJM0334C1E1R0WB01#	
				±0.1pF	GJM0334C1E1R0BB01#	
			1.1pF	±0.25pF ±0.05pF	GJM0334C1E1R0CB01# GJM0334C1E1R1WB01#	
			1.101	±0.05pi	GJM0334C1E1R1BB01#	
				±0.25pF	GJM0334C1E1R1CB01#	
			1.2pF	±0.05pF	GJM0334C1E1R2WB01#	
			p.	±0.1pF	GJM0334C1E1R2BB01#	
				±0.25pF	GJM0334C1E1R2CB01#	
			1.3pF	±0.05pF	GJM0334C1E1R3WB01#	
			·	±0.1pF	GJM0334C1E1R3BB01#	
				±0.25pF	GJM0334C1E1R3CB01#	
			1.4pF	±0.05pF	GJM0334C1E1R4WB01#	
				±0.1pF	GJM0334C1E1R4BB01#	
				±0.25pF	GJM0334C1E1R4CB01#	
			1.5pF	±0.05pF	GJM0334C1E1R5WB01#	
				±0.1pF	GJM0334C1E1R5BB01#	
				±0.25pF	GJM0334C1E1R5CB01#	
			1.6pF	±0.05pF	GJM0334C1E1R6WB01#	
				±0.1pF	GJM0334C1E1R6BB01#	
				±0.25pF	GJM0334C1E1R6CB01#	
			1.7pF	±0.05pF	GJM0334C1E1R7WB01#	
				±0.1pF	GJM0334C1E1R7BB01#	
				±0.25pF	GJM0334C1E1R7CB01#	
			1.8pF	±0.05pF	GJM0334C1E1R8WB01#	
				±0.1pF	GJM0334C1E1R8BB01#	
				±0.25pF	GJM0334C1E1R8CB01#	
			1.9pF	±0.05pF	GJM0334C1E1R9WB01#	
				±0.1pF	GJM0334C1E1R9BB01#	
			00.5	±0.25pF	GJM0334C1E1R9CB01#	
			2.0pF	±0.05pF	GJM0334C1E2R0WB01#	
			D1	±0.1pF	GJM0334C1E2R0BB01#	

T max. 0.33mm

(→ **■** 0.6×0.3mm)

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number
0.33mm		CK	2.0pF	±0.25pF	GJM0334C1E2R0CB01#
		CJ	2.1pF	±0.05pF	
			•	±0.1pF	GJM0333C1E2R1BB01#
				±0.25pF	
			2.2pF	±0.05pF	
			•	±0.1pF	GJM0333C1E2R2BB01#
				±0.25pF	GJM0333C1E2R2CB01#
			2.3pF	±0.05pF	
			•	±0.1pF	GJM0333C1E2R3BB01#
				±0.25pF	
			2.4pF	±0.05pF	GJM0333C1E2R4WB01#
				±0.1pF	GJM0333C1E2R4BB01#
				±0.25pF	GJM0333C1E2R4CB01#
			2.5pF	±0.05pF	
			-1-	±0.1pF	GJM0333C1E2R5BB01#
				±0.25pF	
			2.6pF	±0.05pF	
			- 14.5	±0.1pF	GJM0333C1E2R6BB01#
				±0.25pF	
			2.7pF	±0.05pF	
			•	±0.1pF	GJM0333C1E2R7BB01#
				±0.25pF	GJM0333C1E2R7CB01#
			2.8pF	±0.05pF	
			•	±0.1pF	GJM0333C1E2R8BB01#
				±0.25pF	GJM0333C1E2R8CB01#
			2.9pF	±0.05pF	GJM0333C1E2R9WB01#
			•	±0.1pF	GJM0333C1E2R9BB01#
				±0.25pF	GJM0333C1E2R9CB01#
			3.0pF	±0.05pF	GJM0333C1E3R0WB01#
			•	±0.1pF	GJM0333C1E3R0BB01#
				±0.25pF	GJM0333C1E3R0CB01#
			3.1pF	±0.05pF	GJM0333C1E3R1WB01#
			•	±0.1pF	GJM0333C1E3R1BB01#
				±0.25pF	GJM0333C1E3R1CB01#
			3.2pF	±0.05pF	
				±0.1pF	GJM0333C1E3R2BB01#
				±0.25pF	GJM0333C1E3R2CB01#
			3.3pF	±0.05pF	GJM0333C1E3R3WB01#
			•	±0.1pF	GJM0333C1E3R3BB01#
				±0.25pF	GJM0333C1E3R3CB01#
			3.4pF	±0.05pF	
			•	±0.1pF	GJM0333C1E3R4BB01#
				±0.25pF	GJM0333C1E3R4CB01#
			3.5pF	±0.05pF	GJM0333C1E3R5WB01#
				±0.1pF	GJM0333C1E3R5BB01#
				±0.25pF	GJM0333C1E3R5CB01#
			3.6pF	±0.05pF	
				±0.1pF	GJM0333C1E3R6BB01#
				±0.25pF	
			3.7pF	±0.05pF	
			•	±0.1pF	GJM0333C1E3R7BB01#
				±0.25pF	GJM0333C1E3R7CB01#
			3.8pF	±0.05pF	GJM0333C1E3R8WB01#
			•	±0.1pF	GJM0333C1E3R8BB01#
				<u> </u>	

Rated	тс	Cap.	Tol.	Part Number	
Voltage					
25Vdc	CJ	3.8pF	±0.25pF	GJM0333C1E3R8CB01#	
		3.9pF	±0.05pF	GJM0333C1E3R9WB01#	
			±0.1pF	GJM0333C1E3R9BB01#	
			±0.25pF	GJM0333C1E3R9CB01#	
	CH	4.0pF	±0.05pF	GJM0332C1E4R0WB01#	
			±0.1pF	GJM0332C1E4R0BB01#	
			±0.25pF	GJM0332C1E4R0CB01#	
		4.1pF	±0.05pF	GJM0332C1E4R1WB01#	
			±0.1pF	GJM0332C1E4R1BB01#	
			±0.25pF	GJM0332C1E4R1CB01#	
		4.2pF	±0.05pF	GJM0332C1E4R2WB01#	
			±0.1pF	GJM0332C1E4R2BB01#	
			±0.25pF	GJM0332C1E4R2CB01#	
		4.3pF	±0.05pF	GJM0332C1E4R3WB01#	
			±0.1pF	GJM0332C1E4R3BB01#	
			±0.25pF	GJM0332C1E4R3CB01#	
		4.4pF	±0.05pF	GJM0332C1E4R4WB01#	
		יידףיי	±0.03pi	GJM0332C1E4R4BB01#	_
			±0.25pF	GJM0332C1E4R4CB01#	
		1 F n F			
		4.5pF	±0.05pF	GJM0332C1E4R5WB01#	
			±0.1pF	GJM0332C1E4R5BB01#	
			±0.25pF	GJM0332C1E4R5CB01#	
		4.6pF	±0.05pF	GJM0332C1E4R6WB01#	
			±0.1pF	GJM0332C1E4R6BB01#	
			±0.25pF	GJM0332C1E4R6CB01#	
		4.7pF	±0.05pF	GJM0332C1E4R7WB01#	
			±0.1pF	GJM0332C1E4R7BB01#	
			±0.25pF	GJM0332C1E4R7CB01#	
		4.8pF	±0.05pF	GJM0332C1E4R8WB01#	
			±0.1pF	GJM0332C1E4R8BB01#	
			±0.25pF	GJM0332C1E4R8CB01#	
		4.9pF	±0.05pF	GJM0332C1E4R9WB01#	
			±0.1pF	GJM0332C1E4R9BB01#	
			±0.25pF	GJM0332C1E4R9CB01#	
		5.0pF	±0.05pF	GJM0332C1E5R0WB01#	
			±0.1pF	GJM0332C1E5R0BB01#	
			±0.25pF	GJM0332C1E5R0CB01#	
		5.1pF	±0.05pF	GJM0332C1E5R1WB01#	
			±0.1pF	GJM0332C1E5R1BB01#	
			±0.25pF	GJM0332C1E5R1CB01#	
			±0.5pF	GJM0332C1E5R1DB01#	
		5.2pF	±0.05pF	GJM0332C1E5R2WB01#	
		υ.ΖμΓ	· '		
			±0.1pF	GJM0332C1E5R2BB01#	
			±0.25pF	GJM0332C1E5R2CB01#	
			±0.5pF	GJM0332C1E5R2DB01#	
		5.3pF	±0.05pF	GJM0332C1E5R3WB01#	
			±0.1pF	GJM0332C1E5R3BB01#	
			±0.25pF	GJM0332C1E5R3CB01#	
			±0.5pF	GJM0332C1E5R3DB01#	
		5.4pF	±0.05pF	GJM0332C1E5R4WB01#	
			±0.1pF	GJM0332C1E5R4BB01#	
			±0.25pF	GJM0332C1E5R4CB01#	
			±0.5pF	GJM0332C1E5R4DB01#	
		5.5pF	±0.05pF	GJM0332C1E5R5WB01#	
		Part nur	nber # indic	cates the package specification	code.

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(→ **■** 0.6×0.3mm)

T max.	Rated Voltage	TC Code	Сар.	Tol.	Part Number	
0.33mm	25Vdc	СН	6.8pF	±0.5pF	GJM0332C1E6R8DB01#	
			6.9pF	±0.05pF	GJM0332C1E6R9WB01#	
				±0.1pF	GJM0332C1E6R9BB01#	
				±0.25pF	GJM0332C1E6R9CB01#	
				±0.5pF	GJM0332C1E6R9DB01#	
			7.0pF	±0.05pF	GJM0332C1E7R0WB01#	
				±0.1pF	GJM0332C1E7R0BB01#	
				±0.25pF	GJM0332C1E7R0CB01#	
				±0.5pF	GJM0332C1E7R0DB01#	
			7.1pF	±0.05pF	GJM0332C1E7R1WB01#	
				±0.1pF	GJM0332C1E7R1BB01#	
				±0.25pF	GJM0332C1E7R1CB01#	
				±0.5pF	GJM0332C1E7R1DB01#	
			7.2pF	±0.05pF	GJM0332C1E7R2WB01#	
				±0.1pF	GJM0332C1E7R2BB01#	
				±0.25pF	GJM0332C1E7R2CB01#	
				±0.5pF	GJM0332C1E7R2DB01#	
			7.3pF	±0.05pF	GJM0332C1E7R3WB01#	
				±0.1pF	GJM0332C1E7R3BB01#	
				±0.25pF	GJM0332C1E7R3CB01#	
				±0.5pF	GJM0332C1E7R3DB01#	
			7.4pF	±0.05pF	GJM0332C1E7R4WB01#	
				±0.1pF	GJM0332C1E7R4BB01#	
				±0.25pF	GJM0332C1E7R4CB01#	
				±0.5pF	GJM0332C1E7R4DB01#	
			7.5pF	±0.05pF	GJM0332C1E7R5WB01#	
				±0.1pF	GJM0332C1E7R5BB01#	
				±0.25pF	GJM0332C1E7R5CB01#	
				±0.5pF	GJM0332C1E7R5DB01#	
			7.6pF	±0.05pF	GJM0332C1E7R6WB01#	
				±0.1pF	GJM0332C1E7R6BB01#	
				±0.25pF		
				±0.5pF	GJM0332C1E7R6DB01#	
			7.7pF	±0.05pF	GJM0332C1E7R7WB01#	
				±0.1pF	GJM0332C1E7R7BB01#	
				±0.25pF	GJM0332C1E7R7CB01#	
				±0.5pF	GJM0332C1E7R7DB01#	
			7.8pF	±0.05pF		
				±0.1pF	GJM0332C1E7R8BB01#	
				±0.25pF	GJM0332C1E7R8CB01#	
			70.5	±0.5pF	GJM0332C1E7R8DB01#	
			7.9pF	±0.05pF	GJM0332C1E7R9WB01#	
				±0.1pF	GJM0332C1E7R9BB01#	
				±0.25pF	GJM0332C1E7R9CB01#	
			0.0	±0.5pF	GJM0332C1E7R9DB01#	
			8.0pF	±0.05pF	GJM0332C1E8R0WB01#	
				±0.1pF	GJM0332C1E8R0BB01#	
				±0.25pF	GJM0332C1E8R0CB01#	
			0.1	±0.5pF	GJM0332C1E8R0DB01#	
			8.1pF	±0.05pF	GJM0332C1E8R1WB01#	
				±0.1pF	GJM0332C1E8R1BB01#	
				±0.25pF	GJM0332C1E8R1CB01#	
			0 0	±0.5pF	GJM0332C1E8R1DB01#	
			8.2pF	±0.05pF	GJM0332C1E8R2WB01#	

(→ **■** 0.6×0.3mm)

(→ ■ 0	.6×0.3ı	mm)			
T max.	Rated Voltage	TC Code	Сар.	Tol.	Part Number
0.33mm	25Vdc	СН	8.2pF	±0.1pF	GJM0332C1E8R2BB01#
				±0.25pF	GJM0332C1E8R2CB01#
				±0.5pF	GJM0332C1E8R2DB01#
			8.3pF	±0.05pF	GJM0332C1E8R3WB01#
				±0.1pF	GJM0332C1E8R3BB01#
				±0.25pF	GJM0332C1E8R3CB01#
				±0.5pF	GJM0332C1E8R3DB01#
			8.4pF	±0.05pF	GJM0332C1E8R4WB01#
				±0.1pF	GJM0332C1E8R4BB01#
				±0.25pF	GJM0332C1E8R4CB01#
				±0.5pF	GJM0332C1E8R4DB01#
			8.5pF	±0.05pF	GJM0332C1E8R5WB01#
				±0.1pF	GJM0332C1E8R5BB01#
				±0.25pF	GJM0332C1E8R5CB01#
				±0.5pF	GJM0332C1E8R5DB01#
			8.6pF	±0.05pF	GJM0332C1E8R6WB01#
			•	±0.1pF	GJM0332C1E8R6BB01#
				±0.25pF	GJM0332C1E8R6CB01#
				±0.5pF	GJM0332C1E8R6DB01#
			8.7pF	±0.05pF	GJM0332C1E8R7WB01#
			- 1	±0.1pF	GJM0332C1E8R7BB01#
				±0.25pF	GJM0332C1E8R7CB01#
				±0.5pF	GJM0332C1E8R7DB01#
			8.8pF	±0.05pF	GJM0332C1E8R8WB01#
				±0.1pF	GJM0332C1E8R8BB01#
				±0.25pF	GJM0332C1E8R8CB01#
				±0.5pF	GJM0332C1E8R8DB01#
			8.9pF	±0.05pF	GJM0332C1E8R9WB01#
				±0.1pF	GJM0332C1E8R9BB01#
				±0.25pF	GJM0332C1E8R9CB01#
				±0.5pF	GJM0332C1E8R9DB01#
			9.0pF	±0.05pF	GJM0332C1E9R0WB01#
				±0.1pF	GJM0332C1E9R0BB01#
				±0.25pF	GJM0332C1E9R0CB01#
				-	GJM0332C1E9R0DB01#
			9.1pF	±0.5pF	
			9.1pr	±0.05pF	GJM0332C1E9R1WB01#
				±0.1pF	GJM0332C1E9R1BB01#
				±0.25pF	GJM0332C1E9R1CB01#
			0.0.5	±0.5pF	GJM0332C1E9R1DB01#
			9.2pF	±0.05pF	GJM0332C1E9R2WB01#
				±0.1pF	GJM0332C1E9R2BB01#
				±0.25pF	GJM0332C1E9R2CB01#
				±0.5pF	GJM0332C1E9R2DB01#
			9.3pF	±0.05pF	GJM0332C1E9R3WB01#
				±0.1pF	GJM0332C1E9R3BB01#
				±0.25pF	GJM0332C1E9R3CB01#
				±0.5pF	GJM0332C1E9R3DB01#
			9.4pF	±0.05pF	GJM0332C1E9R4WB01#
				±0.1pF	GJM0332C1E9R4BB01#
				±0.25pF	GJM0332C1E9R4CB01#
				±0.5pF	GJM0332C1E9R4DB01#
			9.5pF	±0.05pF	GJM0332C1E9R5WB01#
				±0.1pF	GJM0332C1E9R5BB01#
				±0.25pF	GJM0332C1E9R5CB01#

T max.	Rated Voltage	TC Code	Сар.	Tol.	Part Number
.33mm	25Vdc	СН	9.5pF	±0.5pF	GJM0332C1E9R5DB01#
			9.6pF	±0.05pF	GJM0332C1E9R6WB01#
				±0.1pF	GJM0332C1E9R6BB01#
				±0.25pF	GJM0332C1E9R6CB01#
				±0.5pF	GJM0332C1E9R6DB01#
			9.7pF	±0.05pF	GJM0332C1E9R7WB01#
				±0.1pF	GJM0332C1E9R7BB01#
				±0.25pF	GJM0332C1E9R7CB01#
				±0.5pF	GJM0332C1E9R7DB01#
			9.8pF	±0.05pF	
			0.00	±0.1pF	GJM0332C1E9R8BB01#
				±0.25pF	GJM0332C1E9R8CB01#
				±0.5pF	GJM0332C1E9R8DB01#
			9.9pF	±0.05pF	GJM0332C1E9R9WB01#
			3.3pi	±0.05pi	GJM0332C1E9R9BB01#
				· ·	
				±0.25pF	GJM0332C1E9R9CB01#
			10	±0.5pF	GJM0332C1E9R9DB01#
			10pF	±2%	GJM0332C1E100GB01#
				±5%	GJM0332C1E100JB01#
			11pF	±2%	GJM0332C1E110GB01#
				±5%	GJM0332C1E110JB01#
			12pF	±2%	GJM0332C1E120GB01#
				±5%	GJM0332C1E120JB01#
			13pF	±2%	GJM0332C1E130GB01#
				±5%	GJM0332C1E130JB01#
			15pF	±2%	GJM0332C1E150GB01#
				±5%	GJM0332C1E150JB01#
			16pF	±2%	GJM0332C1E160GB01#
				±5%	GJM0332C1E160JB01#
			18pF	±2%	GJM0332C1E180GB01#
				±5%	GJM0332C1E180JB01#
			20pF	±2%	GJM0332C1E200GB01#
				±5%	GJM0332C1E200JB01#
	6.3Vdc	COG	22pF	±2%	GJM0335C0J220GB01#
				±5%	GJM0335C0J220JB01#
			24pF	±2%	GJM0335C0J240GB01#
			·F*	±5%	GJM0335C0J240JB01#
			27pF	±2%	GJM0335C0J270GB01#
			- i Pi	±5%	GJM0335C0J270JB01#
			30n⊑		GJM0335C0J270JB01#
			30pF	±2%	
			20-5	±5%	GJM0335C0J300JB01#
			33pF	±2%	GJM0335C0J330GB01#
		61.	00 -	±5%	GJM0335C0J330JB01#
		CH	22pF	±2%	GJM0332C0J220GB01#
				±5%	GJM0332C0J220JB01#
			24pF	±2%	GJM0332C0J240GB01#
				±5%	GJM0332C0J240JB01#
			27pF	±2%	GJM0332C0J270GB01#
				±5%	GJM0332C0J270JB01#
			30pF	±2%	GJM0332C0J300GB01#
				±5%	GJM0332C0J300JB01#
			33pF	±2%	GJM0332C0J330GB01#
			-	±5%	GJM0332C0J330JB01#

■ 1.0×0.5mm Т Rated TC Part Number Cap. Tol Code max. Voltage 0.55mm 50Vdc COG 0.1pF ±0.05pF GJM1555C1HR10WB01# GJM1555C1HR10BB01# ±0.1pF ±0.05pF GJM1555C1HR20WB01# 0.2pF ±0.1pF GJM1555C1HR20BB01# 0.3pF ±0.05pF GJM1555C1HR30WB01# GJM1555C1HR30BB01# ±0.1pF GJM1555C1HR40WB01# 0.4pF ±0.05pF ±0.1pF GJM1555C1HR40BB01# GJM1555C1HR50WB01# 0.5pF ±0.05pF ±0.1pF GJM1555C1HR50BB01# ±0.05pF GJM1555C1HR60WB01# 0.6pF ±0.1pF GJM1555C1HR60BB01# GJM1555C1HR70WB01# 0.7pF ±0.05pF GJM1555C1HR70BB01# ±0.1pF ±0.05pF GJM1555C1HR80WB01# 0.8pF GJM1555C1HR80BB01# ±0.1pF GJM1555C1HR90WB01# 0.9pF ±0.05pF GJM1555C1HR90BB01# ±0.1pF GJM1555C1H1R0WB01# 1.0pF ±0.05pF ±0.1pF GJM1555C1H1R0BB01# GJM1555C1H1R0CB01# ±0.25pF 1.1pF ±0.05pF GJM1555C1H1R1WB01# ±0.1pF GJM1555C1H1R1BB01# GJM1555C1H1R1CB01# ±0.25pF 1.2pF ±0.05pF GJM1555C1H1R2WB01# ±0.1pF GJM1555C1H1R2BB01# ±0.25pF GJM1555C1H1R2CB01# GJM1555C1H1R3WB01# 1.3pF ±0.05pF GJM1555C1H1R3BB01# ±0.1pF GJM1555C1H1R3CB01# ±0.25pF GJM1555C1H1R4WB01# 1.4pF ±0.05pF ±0.1pF GJM1555C1H1R4BB01# ±0.25pF GJM1555C1H1R4CB01# 1.5pF ±0.05pF GJM1555C1H1R5WB01# ±0.1pF GJM1555C1H1R5BB01# ±0.25pF GJM1555C1H1R5CB01# GJM1555C1H1R6WB01# 1.6pF ±0.05pF GJM1555C1H1R6BB01# ±0.1pF GJM1555C1H1R6CB01# ±0.25pF GJM1555C1H1R7WB01# 1.7pF ±0.05pF ±0.1pF GJM1555C1H1R7BB01# ±0.25pF GJM1555C1H1R7CB01# 1.8pF ±0.05pF GJM1555C1H1R8WB01# ±0.1pF GJM1555C1H1R8BB01# ±0.25pF GJM1555C1H1R8CB01# 1.9pF ±0.05pF GJM1555C1H1R9WB01# ±0.1pF GJM1555C1H1R9BB01# GJM1555C1H1R9CB01# ±0.25pF GJM1555C1H2R0WB01# 2.0pF ±0.05pF GJM1555C1H2R0BB01# ±0.1pF ±0.25pF GJM1555C1H2R0CB01#

T max.	Rated Voltage	TC Code	Сар.	Tol.	Part Number	
0.55mm	50Vdc	COG	2.1pF	±0.1pF	GJM1555C1H2R1BB01#	
				±0.25pF	GJM1555C1H2R1CB01#	
			2.2pF	±0.05pF	GJM1555C1H2R2WB01#	
				±0.1pF	GJM1555C1H2R2BB01#	
				±0.25pF	GJM1555C1H2R2CB01#	
			2.3pF	±0.05pF	GJM1555C1H2R3WB01#	
				±0.1pF	GJM1555C1H2R3BB01#	
				±0.25pF	GJM1555C1H2R3CB01#	
			2.4pF	±0.05pF	GJM1555C1H2R4WB01#	
				±0.1pF	GJM1555C1H2R4BB01#	
				±0.25pF	GJM1555C1H2R4CB01#	
			2.5pF	±0.05pF	GJM1555C1H2R5WB01#	
				±0.1pF	GJM1555C1H2R5BB01#	
				±0.25pF	GJM1555C1H2R5CB01#	
			2.6pF	±0.05pF	GJM1555C1H2R6WB01#	
				±0.1pF	GJM1555C1H2R6BB01#	
				±0.25pF	GJM1555C1H2R6CB01#	
			2.7pF	±0.05pF	GJM1555C1H2R7WB01#	
				±0.1pF	GJM1555C1H2R7BB01#	
				±0.25pF	GJM1555C1H2R7CB01#	
			2.8pF	±0.05pF	GJM1555C1H2R8WB01#	
				±0.1pF	GJM1555C1H2R8BB01#	
				±0.25pF	GJM1555C1H2R8CB01#	
			2.9pF	±0.05pF	GJM1555C1H2R9WB01#	
				±0.1pF	GJM1555C1H2R9BB01#	
			00.5	±0.25pF	GJM1555C1H2R9CB01#	
			3.0pF	±0.05pF	GJM1555C1H3R0WB01#	
				±0.1pF	GJM1555C1H3R0BB01#	
			2.1nE	±0.25pF	GJM1555C1H3R0CB01#	
			3.1pF	±0.05pF ±0.1pF	GJM1555C1H3R1WB01# GJM1555C1H3R1BB01#	
				±0.1pi		
			3.2pF		GJM1555C1H3R2WB01#	
			о.др.	±0.1pF	GJM1555C1H3R2BB01#	
				±0.25pF	GJM1555C1H3R2CB01#	
			3.3pF	±0.05pF	GJM1555C1H3R3WB01#	
				±0.1pF	GJM1555C1H3R3BB01#	
				±0.25pF	GJM1555C1H3R3CB01#	
			3.4pF	±0.05pF	GJM1555C1H3R4WB01#	
				±0.1pF	GJM1555C1H3R4BB01#	
				±0.25pF	GJM1555C1H3R4CB01#	
			3.5pF	±0.05pF	GJM1555C1H3R5WB01#	
				±0.1pF	GJM1555C1H3R5BB01#	
				±0.25pF	GJM1555C1H3R5CB01#	
			3.6pF	±0.05pF	GJM1555C1H3R6WB01#	
				±0.1pF	GJM1555C1H3R6BB01#	
				±0.25pF	GJM1555C1H3R6CB01#	
			3.7pF	±0.05pF	GJM1555C1H3R7WB01#	
				±0.1pF	GJM1555C1H3R7BB01#	
				±0.25pF	GJM1555C1H3R7CB01#	
			3.8pF	±0.05pF	GJM1555C1H3R8WB01#	
				±0.1pF	GJM1555C1H3R8BB01#	
				±0.25pF	GJM1555C1H3R8CB01#	
			3.9pF	±0.05pF	GJM1555C1H3R9WB01#	

Part number # indicates the package specification code.

2.1pF

±0.05pF

GJM1555C1H2R1WB01#

For General Purpose GRM Series

Capacitor Array GNM Series

GJM Series Temperature Compensating Type Hio **Part Number List**

Т

max.

0.55mm

1.0×0.5mm)

(→ ■ 1	.0×0.5ı	mm)			
T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number
0.55mm	50Vdc	C0G	3.9pF	±0.1pF	GJM1555C1H3R9BB01#
				±0.25pF	GJM1555C1H3R9CB01#
			4.0pF	±0.05pF	GJM1555C1H4R0WB01#
				±0.1pF	GJM1555C1H4R0BB01#
				±0.25pF	GJM1555C1H4R0CB01#
			4.1pF	±0.05pF	GJM1555C1H4R1WB01#
				±0.1pF	GJM1555C1H4R1BB01#
				±0.25pF	GJM1555C1H4R1CB01#
			4.2pF	±0.05pF	GJM1555C1H4R2WB01#
				±0.1pF	GJM1555C1H4R2BB01#
				±0.25pF	GJM1555C1H4R2CB01#
			4.3pF	±0.05pF	GJM1555C1H4R3WB01#
				±0.1pF	GJM1555C1H4R3BB01#
				±0.25pF	GJM1555C1H4R3CB01#
			4.4pF	±0.05pF	GJM1555C1H4R4WB01#
			·	±0.1pF	GJM1555C1H4R4BB01#
				±0.25pF	GJM1555C1H4R4CB01#
			4.5pF	±0.05pF	GJM1555C1H4R5WB01#
				±0.1pF	GJM1555C1H4R5BB01#
				±0.25pF	GJM1555C1H4R5CB01#
			4.6pF	±0.05pF	GJM1555C1H4R6WB01#
				±0.1pF	GJM1555C1H4R6BB01#
				±0.25pF	GJM1555C1H4R6CB01#
			4.7pF	±0.05pF	GJM1555C1H4R7WB01#
				±0.1pF	GJM1555C1H4R7BB01#
				±0.25pF	GJM1555C1H4R7CB01#
			4.8pF	±0.05pF	GJM1555C1H4R8WB01#
			1.001	±0.1pF	GJM1555C1H4R8BB01#
				±0.25pF	GJM1555C1H4R8CB01#
			4.9pF	±0.05pF	GJM1555C1H4R9WB01#
			1.001	±0.1pF	GJM1555C1H4R9BB01#
				±0.25pF	GJM1555C1H4R9CB01#
			5.0pF	±0.05pF	GJM1555C1H5R0WB01#
			0.0рі	±0.1pF	GJM1555C1H5R0BB01#
				±0.25pF	GJM1555C1H5R0CB01#
			5.1pF	±0.05pF	GJM1555C1H5R1WB01#
			5.1pi	±0.1pF	GJM1555C1H5R1BB01#
				±0.1pi	GJM1555C1H5R1CB01#
				±0.25pF	GJM1555C1H5R1DB01#
			5.2pF	±0.05pF	GJM1555C1H5R2WB01#
			J.2pi	±0.05pF	GJM1555C1H5R2BB01#
				±0.1pi	GJM1555C1H5R2CB01#
				-	GJM1555C1H5R2DB01#
			E 2nE	±0.5pF	
			5.3pF	±0.05pF	GJM1555C1H5R3WB01#
				±0.1pF	GJM1555C1H5R3BB01#
				±0.25pF	GJM1555C1H5R3CB01#
			5.4nE	±0.5pF	GJM1555C1H5R3DB01#
			5.4pF	±0.05pF	GJM1555C1H5R4WB01#
				±0.1pF	GJM1555C1H5R4BB01#
				±0.25pF	GJM1555C1H5R4CB01#
				±0.5pF	GJM1555C1H5R4DB01#
			5.5pF	±0.05pF	GJM1555C1H5R5WB01#
				±0.1pF	GJM1555C1H5R5BB01#
				±0.25pF	GJM1555C1H5R5CB01#

SOVID S.5.PF 10.5PF GJM1555C1H5R5DB01# 10.05PF GJM1555C1H5R6WB01# 10.5PF GJM1555C1H5R6WB01# 10.5PF GJM1555C1H5R6WB01# 10.5PF GJM1555C1H5R6WB01# 10.5PF GJM1555C1H5R7WB01# 10.5PF GJM1555C1H5R7CB01# 10.5PF GJM1555C1H5R7CB01# 10.5PF GJM1555C1H5R7CB01# 10.5PF GJM1555C1H5R7CB01# 10.5PF GJM1555C1H5R7CB01# 10.5PF GJM1555C1H5R7CB01# 10.5PF GJM1555C1H5R8WB01# 10.5PF GJM1555C1H5R8WB01# 10.5PF GJM1555C1H5R8WB01# 10.5PF GJM1555C1H5R8WB01# 10.5PF GJM1555C1H5R8WB01# 10.5PF GJM1555C1H5R9WB01# 10.5PF GJM1555C1H5R9WB01# 10.5PF GJM1555C1H5R9WB01# 10.5PF GJM1555C1H5R9WB01# 10.5PF GJM1555C1H6R0WB01# 10.5PF GJM1555C1H6R0B01# 10.5PF GJM1555C1H6R0B001#	Rated Voltage	TC Code	Сар.	Tol.	Part Number	
5.6pF ±0.05pF GJM1555C1H5R6WB01# ±0.25pF GJM1555C1H5R6B01# ±0.5pF GJM1555C1H5R6B01# ±0.5pF GJM1555C1H5R6WB01# ±0.25pF GJM1555C1H5R7WB01# ±0.25pF GJM1555C1H5R7WB01# ±0.25pF GJM1555C1H5R7WB01# ±0.25pF GJM1555C1H5R7WB01# ±0.25pF GJM1555C1H5R8WB01# ±0.25pF GJM1555C1H5R8WB01# ±0.25pF GJM1555C1H5R8WB01# ±0.5pF GJM1555C1H5R8WB01# ±0.5pF GJM1555C1H5R9WB01# ±0.5pF GJM1555C1H6R0WB01# ±0.5pF GJM1555C1H6R0WB01# ±0.5pF GJM1555C1H6R0WB01# ±0.5pF GJM1555C1H6R0WB01# ±0.5pF GJM1555C1H6R0WB01# ±0.5pF GJM1555C1H6R1WB01# ±0.5pF GJM1555C1H6R1WB01# ±0.5pF GJM1555C1H6R1BB01# ±0.5pF GJM1555C1H6R1BB01# ±0.5pF GJM1555C1H6R2WB01# ±0.5pF GJM1555C1H6R2WB01# ±0.5pF GJM1555C1H6R3WB01# ±0.5pF GJM1555C1H6R5DB01# ±0.5p	50Vdc	COG	5.5pF	±0.5pF	GJM1555C1H5R5DB01#	
#0.1pF GJM1555C1H5R6BB01# #0.25pF GJM1555C1H5R6CB01# #0.5pF GJM1555C1H5R7BB01# #0.25pF GJM1555C1H5R7BB01# #0.25pF GJM1555C1H5R7BB01# #0.25pF GJM1555C1H5R7BB01# #0.25pF GJM1555C1H5R7BB01# #0.25pF GJM1555C1H5R7BB01# #0.25pF GJM1555C1H5R8WB01# #0.25pF GJM1555C1H5R8WB01# #0.1pF GJM1555C1H5R8BB01# #0.1pF GJM1555C1H5R8BB01# #0.1pF GJM1555C1H5R9BB01# #0.25pF GJM1555C1H6R0B01# #0.25pF GJM1555C1H6R0B01# #0.5pF GJM1555C1H6R0B01# #0.5pF GJM1555C1H6R1BB01# #0.25pF GJM1555C1H6R1BB01# #0.25pF GJM1555C1H6R1BB01# #0.25pF GJM1555C1H6R1BB01# #0.25pF GJM1555C1H6R1BB01# #0.25pF GJM1555C1H6R1BB01# #0.25pF GJM1555C1H6R2B01# #0.5pF GJM1555C1H6R3BB01# #0.5pF GJM1555C1H6R5BB01#					GJM1555C1H5R6WB01#	
#0.5pF				<u> </u>	GJM1555C1H5R6BB01#	
5.7pF				±0.25pF	GJM1555C1H5R6CB01#	
#0.1pF GJM1555C1H5R7BB01# #0.25pF GJM1555C1H5R7CB01# #0.5pF GJM1555C1H5R8WB01# #0.1pF GJM155SC1H5R8WB01# #0.25pF GJM155SC1H5R8WB01# #0.25pF GJM155SC1H5R8WB01# #0.5pF GJM155SC1H5R8WB01# #0.5pF GJM155SC1H5R9WB01# #0.1pF GJM155SC1H5R9BB01# #0.5pF GJM155SC1H5R9BB01# #0.5pF GJM155SC1H5R9BB01# #0.5pF GJM155SC1H5R9BB01# #0.5pF GJM155SC1H5R9BB01# #0.5pF GJM155SC1H5R9BB01# #0.5pF GJM155SC1H6R0WB01# #0.5pF GJM155SC1H6R0B01# #0.5pF GJM155SC1H6R0B01# #0.5pF GJM155SC1H6R0B01# #0.5pF GJM155SC1H6R0B01# #0.5pF GJM155SC1H6R0B01# #0.5pF GJM155SC1H6R1BB01# #0.5pF GJM155SC1H6R1BB01# #0.5pF GJM155SC1H6R2BB01# #0.5pF GJM155SC1H6R2BB01# #0.5pF GJM155SC1H6R2BB01# #0.5pF GJM155SC1H6R3BB01# #0.5pF GJM155SC1H6R4BB01# #0.5pF GJM155SC1H6R4BB01# #0.5pF GJM155SC1H6R4BB01# #0.5pF GJM155SC1H6R3BB01# #0.5pF GJM155SC1H6R4BB01# #0.5pF GJM155SC1H6R4BB01# #0.5pF GJM155SC1H6R4BB01# #0.5pF GJM155SC1H6R4BB01# #0.5pF GJM155SC1H6R3BB01# #0.5pF GJM155SC1H6R8BB01# #0.5pF GJM155SC1H6R8BB01# #0.5pF GJM155SC1H6R6BB01# #0.5pF GJM155SC1H6R7BB01# #0.5pF GJM155SC1H6R7BB01# #0.5pF GJM155SC1H6R8BB01#				±0.5pF	GJM1555C1H5R6DB01#	
#0.25pF GJM1555C1H5R7CB01# #0.5pF GJM155SC1H5R8WB01# #0.1pF GJM155SC1H5R8WB01# #0.25pF GJM155SC1H5R8WB01# #0.25pF GJM155SC1H5R8WB01# #0.25pF GJM155SC1H5R8WB01# #0.1pF GJM155SC1H5R8WB01# #0.1pF GJM155SC1H5R8WB01# #0.1pF GJM155SC1H5R9BB01# #0.25pF GJM155SC1H5R9BB01# #0.25pF GJM155SC1H5R9BB01# #0.25pF GJM155SC1H5R9BB01# #0.25pF GJM155SC1H5R9BB01# #0.1pF GJM155SC1H6R0WB01# #0.1pF GJM155SC1H6R0B01# #0.5pF GJM155SC1H6R0B01# #0.5pF GJM155SC1H6R0B01# #0.5pF GJM155SC1H6R0B01# #0.5pF GJM155SC1H6R1BB01# #0.25pF GJM155SC1H6R1BB01# #0.25pF GJM155SC1H6R2WB01# #0.5pF GJM155SC1H6R2WB01# #0.25pF GJM155SC1H6R2BB01# #0.25pF GJM155SC1H6R3WB01# #0.25pF GJM155SC1H6R3WB01# #0.25pF GJM155SC1H6R3WB01# #0.25pF GJM155SC1H6R3WB01# #0.1pF GJM155SC1H6R3WB01# #0.25pF GJM155SC1H6R3DB01# #0.25pF GJM155SC1H6R3DB01# #0.25pF GJM155SC1H6R3DB01# #0.25pF GJM155SC1H6R3DB01# #0.25pF GJM155SC1H6R3DB01# #0.5pF GJM155SC1H6R4WB01# #0.25pF GJM155SC1H6R4WB01# #0.25pF GJM155SC1H6R4DB01# #0.5pF GJM155SC1H6R4DB01# #0.5pF GJM155SC1H6R4DB01# #0.5pF GJM155SC1H6R6BB01# #0.5pF GJM155SC1H6R7BB01# #0.5pF GJM155SC1H6R7BB01# #0.5pF GJM155SC1H6R7BB01# #0.5pF GJM155SC1H6R8B00# #0.5pF GJM155SC1H6R8B00# #0.5pF GJM155SC1H6R8B00# #0.5pF GJM155SC1H6R8B00# #0.5pF GJM155SC1H6R8B00# #0.5pF GJM155SC1H6R8B00# #0.5pF GJM155SC1H6R8B00# #0.5pF GJM155SC1H6R8B00# #0.5pF GJM155SC1H6R8B00# #0.5pF GJM155SC1H6R8B00# #0.5pF GJM155SC1H6R8B00# #0.5pF GJM155SC1H6R8B00# #0.5pF GJM155SC1H6R8B00# #0.5pF GJM155SC1H6R8B00# #0.5pF GJM155SC1H6R8B00# #0.5pF GJM155SC1H6R8B00# #0.5pF GJM155SC1H6R8B00#			5.7pF	±0.05pF	GJM1555C1H5R7WB01#	
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5.8pF ±0.05pF GJM1555C1H5R8WB01# ±0.1pF GJM1555C1H5R8BB01# ±0.5pF GJM1555C1H5R8BB01# ±0.5pF GJM1555C1H5R9WB01# ±0.25pF GJM1555C1H5R9WB01# ±0.25pF GJM1555C1H5R9WB01# ±0.25pF GJM1555C1H5R9WB01# ±0.5pF GJM1555C1H5R9WB01# ±0.5pF GJM1555C1H6R0WB01# ±0.25pF GJM1555C1H6R0WB01# ±0.25pF GJM1555C1H6R0WB01# ±0.25pF GJM1555C1H6R0WB01# ±0.25pF GJM1555C1H6R1WB01# ±0.25pF GJM1555C1H6R1WB01# ±0.5pF GJM1555C1H6R1WB01# ±0.5pF GJM1555C1H6R1WB01# ±0.5pF GJM155C1H6R1WB01# ±0.5pF GJM1555C1H6R2WB01# ±0.5pF GJM1555C1H6R2WB01# ±0.5pF GJM1555C1H6R2WB01# ±0.5pF GJM1555C1H6R2WB01# ±0.5pF GJM1555C1H6R3WB01# ±0.5pF GJM1555C1H6R3WB01# ±0.5pF GJM1555C1H6R3WB01# ±0.5pF GJM1555C1H6R3WB01# ±0.5pF GJM1555C1H6R3WB01# ±0.5pF GJM1555C1H6R4WB01# ±0.5pF GJM1555C1H6R6BB01# ±0.5pF GJM1555C1H6R8BB01# ±0.				±0.25pF	GJM1555C1H5R7CB01#	
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6.0pF				±0.25pF	GJM1555C1H5R9CB01#	
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### 10.5pF GJM1555C1H6R1WB01# ### 10.1pF GJM1555C1H6R1BB01# ### 10.25pF GJM1555C1H6R1BB01# ### 10.5pF GJM1555C1H6R1DB01# ### 10.5pF GJM1555C1H6R1DB01# ### 10.5pF GJM1555C1H6R2WB01# ### 10.5pF GJM1555C1H6R2WB01# ### 10.5pF GJM1555C1H6R2BB01# ### 10.5pF GJM1555C1H6R2BB01# ### 10.5pF GJM1555C1H6R3WB01# ### 10.5pF GJM1555C1H6R3WB01# ### 10.5pF GJM1555C1H6R3BB01# ### 10.5pF GJM1555C1H6R3BB01# ### 10.5pF GJM1555C1H6R3BB01# ### 10.5pF GJM1555C1H6R4WB01# ### 10.5pF GJM1555C1H6R4WB01# ### 10.5pF GJM1555C1H6R4BB01# ### 10.5pF GJM1555C1H6R5BB01# ### 10.5pF GJM1555C1H6R5BB01# ### 10.5pF GJM1555C1H6R5BB01# ### 10.5pF GJM1555C1H6R5BB01# ### 10.5pF GJM1555C1H6R6BB01# ### 10.5pF GJM1555C1H6R6BB01# ### 10.5pF GJM1555C1H6R6BB01# ### 10.5pF GJM1555C1H6R6BB01# ### 10.5pF GJM1555C1H6R7BB01# ### 10.5pF GJM1555C1H6R8BB01# #### 10.5pF GJM1555C1H6R8BB01# #### 10.5pF GJM1555C1H6R8BB01# #### 10.5pF GJM1555C1H6R8BB01# ##				±0.1pF	GJM1555C1H6R0BB01#	
6.1pF ±0.05pF GJM1555C1H6R1WB01# ±0.25pF GJM1555C1H6R1BB01# ±0.25pF GJM1555C1H6R1DB01# ±0.05pF GJM1555C1H6R2WB01# ±0.05pF GJM1555C1H6R2WB01# ±0.05pF GJM1555C1H6R2BB01# ±0.05pF GJM1555C1H6R2BB01# ±0.05pF GJM1555C1H6R2BB01# ±0.05pF GJM1555C1H6R3WB01# ±0.05pF GJM1555C1H6R3WB01# ±0.05pF GJM1555C1H6R3DB01# ±0.05pF GJM1555C1H6R3DB01# ±0.05pF GJM1555C1H6R3DB01# ±0.05pF GJM1555C1H6R4WB01# ±0.05pF GJM1555C1H6R4BB01# ±0.05pF GJM1555C1H6R4DB01# ±0.05pF GJM1555C1H6R4DB01# ±0.05pF GJM1555C1H6R5DB01# ±0.05pF GJM1555C1H6R5DB01# ±0.05pF GJM1555C1H6R5DB01# ±0.05pF GJM1555C1H6R6DB01# ±0.05pF GJM1555C1H6R7DB01# ±0.05pF GJM1555C1H6R7DB01# ±0.05pF GJM1555C1H6R7DB01# ±0.05pF GJM1555C1H6R7DB01# ±0.05pF GJM1555C1H6R7DB01# ±0.05pF GJM1555C1H6R8WB01# ±0.05pF GJM1555C1H6R8BB01#				±0.25pF	GJM1555C1H6R0CB01#	
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# ±0.25pF GJM1555C1H6R1CB01# ±0.5pF GJM1555C1H6R2WB01# ±0.1pF GJM1555C1H6R2BB01# ±0.25pF GJM1555C1H6R2BB01# ±0.5pF GJM1555C1H6R2BB01# ±0.5pF GJM1555C1H6R2BB01# ±0.5pF GJM1555C1H6R3WB01# ±0.1pF GJM1555C1H6R3WB01# ±0.25pF GJM1555C1H6R3BB01# ±0.25pF GJM1555C1H6R3DB01# ±0.5pF GJM1555C1H6R3DB01# ±0.5pF GJM1555C1H6R4WB01# ±0.5pF GJM1555C1H6R4DB01# ±0.5pF GJM1555C1H6R4DB01# ±0.5pF GJM1555C1H6R5DB01# ±0.5pF GJM1555C1H6R5DB01# ±0.25pF GJM1555C1H6R5DB01# ±0.25pF GJM1555C1H6R6DB01# ±0.25pF GJM1555C1H6R6DB01# ±0.25pF GJM1555C1H6R6DB01# ±0.5pF GJM1555C1H6R6DB01# ±0.5pF GJM1555C1H6R6DB01# ±0.25pF GJM1555C1H6R6DB01# ±0.5pF GJM1555C1H6R6DB01# ±0.5pF GJM1555C1H6R6DB01# ±0.25pF GJM1555C1H6R7DB01# ±0.25pF GJM1555C1H6R7DB01# ±0.25pF GJM1555C1H6R7DB01# ±0.25pF GJM1555C1H6R8WB01# ±0.25pF GJM1555C1H6R8BB01# ±0.25pF GJM1555C1H6R8BB01# ±0.25pF GJM1555C1H6R8BB01# ±0.25pF GJM1555C1H6R8BB01# ±0.25pF GJM1555C1H6R8BB001# ±0.			6.1pF	±0.05pF	GJM1555C1H6R1WB01#	
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6.2pF ±0.05pF GJM1555C1H6R2WB01# ±0.25pF GJM1555C1H6R2BB01# ±0.5pF GJM1555C1H6R2CB01# ±0.5pF GJM1555C1H6R3WB01# ±0.25pF GJM1555C1H6R3BB01# ±0.25pF GJM1555C1H6R3BB01# ±0.5pF GJM1555C1H6R3DB01# ±0.5pF GJM1555C1H6R3DB01# ±0.5pF GJM1555C1H6R3DB01# ±0.5pF GJM1555C1H6R4DB01# ±0.25pF GJM1555C1H6R4DB01# ±0.5pF GJM1555C1H6R4DB01# ±0.5pF GJM1555C1H6R5DB01# ±0.5pF GJM1555C1H6R5DB01# ±0.5pF GJM1555C1H6R5DB01# ±0.5pF GJM1555C1H6R6DB01# ±0.5pF GJM1555C1H6R7WB01# ±0.5pF GJM1555C1H6R7WB01# ±0.5pF GJM1555C1H6R7DB01# ±0.5pF GJM1555C1H6R7DB01# ±0.5pF GJM1555C1H6R7DB01# ±0.5pF GJM1555C1H6R7DB01# ±0.5pF GJM1555C1H6R8DB01#				±0.25pF	GJM1555C1H6R1CB01#	
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# ±0.25pF GJM1555C1H6R2CB01# ±0.5pF GJM1555C1H6R3WB01# ±0.1pF GJM1555C1H6R3WB01# ±0.25pF GJM1555C1H6R3CB01# ±0.5pF GJM1555C1H6R3CB01# ±0.5pF GJM1555C1H6R3CB01# ±0.1pF GJM1555C1H6R4WB01# ±0.25pF GJM1555C1H6R4CB01# ±0.5pF GJM1555C1H6R4CB01# ±0.5pF GJM1555C1H6R4CB01# ±0.5pF GJM1555C1H6R5CB01# ±0.25pF GJM1555C1H6R5CB01# ±0.5pF GJM1555C1H6R5CB01# ±0.5pF GJM1555C1H6R6CB01# ±0.5pF GJM1555C1H6R6CB01# ±0.5pF GJM1555C1H6R6CB01# ±0.5pF GJM1555C1H6R6CB01# ±0.5pF GJM1555C1H6R6CB01# ±0.5pF GJM1555C1H6R6CB01# ±0.5pF GJM1555C1H6R7CB01# ±0.5pF GJM1555C1H6R7CB01# ±0.5pF GJM1555C1H6R7CB01# ±0.5pF GJM1555C1H6R7CB01# ±0.5pF GJM1555C1H6R7CB01# ±0.5pF GJM1555C1H6R8CB01#			6.2pF	±0.05pF	GJM1555C1H6R2WB01#	
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6.3pF				±0.25pF	GJM1555C1H6R2CB01#	
#0.1pF GJM1555C1H6R3BB01# #0.25pF GJM1555C1H6R3CB01# #0.5pF GJM1555C1H6R3DB01# #0.1pF GJM1555C1H6R4WB01# #0.1pF GJM1555C1H6R4BB01# #0.25pF GJM1555C1H6R4DB01# #0.5pF GJM1555C1H6R4DB01# #0.5pF GJM1555C1H6R5DB01# #0.1pF GJM1555C1H6R5DB01# #0.25pF GJM1555C1H6R5DB01# #0.5pF GJM1555C1H6R5DB01# #0.1pF GJM1555C1H6R6DB01# #0.1pF GJM1555C1H6R6DB01# #0.1pF GJM1555C1H6R6DB01# #0.25pF GJM1555C1H6R6DB01# #0.5pF GJM1555C1H6R6DB01# #0.5pF GJM1555C1H6R6DB01# #0.5pF GJM1555C1H6R6DB01# #0.5pF GJM1555C1H6R7DB01# #0.5pF GJM1555C1H6R7DB01# #0.5pF GJM1555C1H6R7DB01# #0.5pF GJM1555C1H6R7DB01# #0.5pF GJM1555C1H6R7DB01# #0.5pF GJM1555C1H6R8DB01# #0.5pF GJM1555C1H6R8DB01# #0.5pF GJM1555C1H6R8DB01# #0.5pF GJM1555C1H6R8DB01# #0.5pF GJM1555C1H6R8DB01#				±0.5pF	GJM1555C1H6R2DB01#	
#0.25pF GJM1555C1H6R3CB01# #0.5pF GJM1555C1H6R3DB01# #0.1pF GJM1555C1H6R4WB01# #0.25pF GJM1555C1H6R4CB01# #0.5pF GJM1555C1H6R4CB01# #0.5pF GJM1555C1H6R4CB01# #0.1pF GJM1555C1H6R5WB01# #0.1pF GJM1555C1H6R5CB01# #0.5pF GJM1555C1H6R5CB01# #0.5pF GJM1555C1H6R6CB01# #0.1pF GJM1555C1H6R6CB01# #0.25pF GJM1555C1H6R6CB01# #0.25pF GJM1555C1H6R6CB01# #0.5pF GJM1555C1H6R6CB01# #0.5pF GJM1555C1H6R6CB01# #0.5pF GJM1555C1H6R7CB01# #0.5pF GJM1555C1H6R8CB01# #0.5pF GJM1555C1H6R8CB01# #0.5pF GJM1555C1H6R8CB01# #0.5pF GJM1555C1H6R8CB01# #0.5pF GJM1555C1H6R8CB01# #0.5pF GJM1555C1H6R8CB01#			6.3pF	±0.05pF	GJM1555C1H6R3WB01#	
#0.5pF GJM1555C1H6R3DB01# #0.1pF GJM1555C1H6R4WB01# #0.25pF GJM1555C1H6R4CB01# #0.5pF GJM1555C1H6R4CB01# #0.5pF GJM1555C1H6R4CB01# #0.1pF GJM1555C1H6R5WB01# #0.1pF GJM1555C1H6R5BB01# #0.25pF GJM1555C1H6R5CB01# #0.5pF GJM1555C1H6R6CB01# #0.1pF GJM1555C1H6R6CB01# #0.25pF GJM1555C1H6R6CB01# #0.5pF GJM1555C1H6R6CB01# #0.5pF GJM1555C1H6R6CB01# #0.5pF GJM1555C1H6R6CB01# #0.5pF GJM1555C1H6R7CB01# #0.1pF GJM1555C1H6R7CB01# #0.25pF GJM1555C1H6R7CB01# #0.25pF GJM1555C1H6R7CB01# #0.5pF GJM1555C1H6R7CB01# #0.5pF GJM1555C1H6R7CB01# #0.5pF GJM1555C1H6R8CB01#				±0.1pF	GJM1555C1H6R3BB01#	
6.4pF ±0.05pF GJM1555C1H6R4WB01# ±0.25pF GJM1555C1H6R4WB01# ±0.25pF GJM1555C1H6R4CB01# ±0.5pF GJM1555C1H6R4CB01# ±0.05pF GJM1555C1H6R5WB01# ±0.25pF GJM1555C1H6R5CB01# ±0.05pF GJM1555C1H6R5CB01# ±0.05pF GJM1555C1H6R6CB01# ±0.1pF GJM1555C1H6R6CB01# ±0.25pF GJM1555C1H6R6CB01# ±0.5pF GJM1555C1H6R6CB01# ±0.5pF GJM1555C1H6R6CB01# ±0.5pF GJM1555C1H6R6CB01# ±0.1pF GJM1555C1H6R7CB01# ±0.25pF GJM1555C1H6R7CB01# ±0.5pF GJM1555C1H6R7CB01# ±0.5pF GJM1555C1H6R7CB01# ±0.5pF GJM1555C1H6R7CB01# ±0.5pF GJM1555C1H6R7CB01# ±0.5pF GJM1555C1H6R7CB01# ±0.5pF GJM1555C1H6R8CB01# ±0.5pF GJM1555C1H6R8CB01# ±0.5pF GJM1555C1H6R8CB01# ±0.5pF GJM1555C1H6R8CB01# ±0.5pF GJM1555C1H6R8CB01#				±0.25pF	GJM1555C1H6R3CB01#	
#0.1pF GJM1555C1H6R4BB01# #0.25pF GJM1555C1H6R4CB01# #0.5pF GJM1555C1H6R4DB01# #0.1pF GJM1555C1H6R5WB01# #0.25pF GJM1555C1H6R5BB01# #0.25pF GJM1555C1H6R5DB01# #0.5pF GJM1555C1H6R5DB01# #0.1pF GJM1555C1H6R6BB01# #0.1pF GJM1555C1H6R6BB01# #0.25pF GJM1555C1H6R6DB01# #0.5pF GJM1555C1H6R6DB01# #0.5pF GJM1555C1H6R6DB01# #0.5pF GJM1555C1H6R7BB01# #0.1pF GJM1555C1H6R7BB01# #0.25pF GJM1555C1H6R7DB01# #0.5pF GJM1555C1H6R7DB01# #0.5pF GJM1555C1H6R7DB01# #0.5pF GJM1555C1H6R8BB01# #0.5pF GJM1555C1H6R8BB01# #0.5pF GJM1555C1H6R8BB01# #0.5pF GJM1555C1H6R8BB01# #0.5pF GJM1555C1H6R8BB01# #0.5pF GJM1555C1H6R8BB01#				±0.5pF	GJM1555C1H6R3DB01#	
#0.25pF GJM1555C1H6R4CB01# #0.5pF GJM1555C1H6R4DB01# #0.5pF GJM1555C1H6R5WB01# #0.1pF GJM1555C1H6R5BB01# #0.25pF GJM1555C1H6R5DB01# #0.5pF GJM1555C1H6R5DB01# #0.1pF GJM1555C1H6R6BB01# #0.1pF GJM1555C1H6R6BB01# #0.25pF GJM1555C1H6R6CB01# #0.5pF GJM1555C1H6R6CB01# #0.5pF GJM1555C1H6R7DB01# #0.1pF GJM1555C1H6R7DB01# #0.25pF GJM1555C1H6R7DB01# #0.25pF GJM1555C1H6R7DB01# #0.5pF GJM1555C1H6R7DB01# #0.5pF GJM1555C1H6R8DB01# #0.5pF GJM1555C1H6R8DB01# #0.5pF GJM1555C1H6R8DB01# #0.5pF GJM1555C1H6R8DB01# #0.25pF GJM1555C1H6R8DB01# #0.25pF GJM1555C1H6R8DB01#			6.4pF	±0.05pF	GJM1555C1H6R4WB01#	
#0.5pF GJM1555C1H6R4DB01# #0.05pF GJM1555C1H6R5WB01# #0.1pF GJM1555C1H6R5BB01# #0.25pF GJM1555C1H6R5CB01# #0.5pF GJM1555C1H6R5CB01# #0.1pF GJM1555C1H6R6WB01# #0.1pF GJM1555C1H6R6BB01# #0.25pF GJM1555C1H6R6CB01# #0.5pF GJM1555C1H6R6CB01# #0.5pF GJM1555C1H6R7WB01# #0.1pF GJM1555C1H6R7WB01# #0.25pF GJM1555C1H6R7CB01# #0.5pF GJM1555C1H6R7CB01# #0.5pF GJM1555C1H6R7DB01# #0.5pF GJM1555C1H6R8WB01# #0.5pF GJM1555C1H6R8WB01# #0.5pF GJM1555C1H6R8WB01# #0.5pF GJM1555C1H6R8BB01# #0.5pF GJM1555C1H6R8BB01# #0.5pF GJM1555C1H6R8CB01#				±0.1pF	GJM1555C1H6R4BB01#	
6.5pF ±0.05pF GJM1555C1H6R5WB01# ±0.1pF GJM1555C1H6R5BB01# ±0.25pF GJM1555C1H6R5DB01# ±0.5pF GJM1555C1H6R5DB01# ±0.05pF GJM1555C1H6R6BB01# ±0.1pF GJM1555C1H6R6BB01# ±0.25pF GJM1555C1H6R6DB01# ±0.5pF GJM1555C1H6R6DB01# ±0.05pF GJM1555C1H6R7WB01# ±0.1pF GJM1555C1H6R7BB01# ±0.25pF GJM1555C1H6R7DB01# ±0.5pF GJM1555C1H6R7DB01# ±0.5pF GJM1555C1H6R8DB01# ±0.5pF GJM1555C1H6R8DB01# ±0.5pF GJM1555C1H6R8DB01# ±0.5pF GJM1555C1H6R8DB01# ±0.5pF GJM1555C1H6R8DB01#				±0.25pF	GJM1555C1H6R4CB01#	
#0.1pF GJM1555C1H6R5BB01# #0.25pF GJM1555C1H6R5DB01# #0.5pF GJM1555C1H6R5DB01# #0.1pF GJM1555C1H6R6WB01# #0.1pF GJM1555C1H6R6BB01# #0.25pF GJM1555C1H6R6DB01# #0.5pF GJM1555C1H6R6DB01# #0.1pF GJM1555C1H6R7WB01# #0.1pF GJM1555C1H6R7BB01# #0.25pF GJM1555C1H6R7CB01# #0.5pF GJM1555C1H6R7DB01# #0.5pF GJM1555C1H6R7DB01# #0.5pF GJM1555C1H6R8WB01# #0.1pF GJM1555C1H6R8WB01# #0.25pF GJM1555C1H6R8BB01# #0.25pF GJM1555C1H6R8CB01# #0.25pF GJM1555C1H6R8CB01#				±0.5pF	GJM1555C1H6R4DB01#	
±0.25pF GJM1555C1H6R5CB01# ±0.5pF GJM1555C1H6R5DB01# ±0.05pF GJM1555C1H6R6WB01# ±0.1pF GJM1555C1H6R6BB01# ±0.25pF GJM1555C1H6R6CB01# ±0.5pF GJM1555C1H6R6DB01# ±0.5pF GJM1555C1H6R7WB01# ±0.1pF GJM1555C1H6R7B01# ±0.25pF GJM1555C1H6R7CB01# ±0.5pF GJM1555C1H6R7DB01# ±0.5pF GJM1555C1H6R8WB01# ±0.5pF GJM1555C1H6R8WB01# ±0.5pF GJM1555C1H6R8BB01# ±0.25pF GJM1555C1H6R8CB01# ±0.5pF GJM1555C1H6R8CB01#			6.5pF	<u> </u>	GJM1555C1H6R5WB01#	
#0.5pF GJM1555C1H6R5DB01# 6.6pF #0.05pF GJM1555C1H6R6WB01# #0.1pF GJM1555C1H6R6BB01# #0.25pF GJM1555C1H6R6CB01# #0.5pF GJM1555C1H6R6DB01# #0.1pF GJM1555C1H6R7WB01# #0.1pF GJM1555C1H6R7B01# #0.25pF GJM1555C1H6R7CB01# #0.5pF GJM1555C1H6R7DB01# #0.5pF GJM1555C1H6R8WB01# #0.1pF GJM1555C1H6R8WB01# #0.25pF GJM1555C1H6R8BB01# #0.25pF GJM1555C1H6R8CB01# #0.5pF GJM1555C1H6R8CB01#						
6.6pF ±0.05pF GJM1555C1H6R6WB01# ±0.1pF GJM1555C1H6R6BB01# ±0.25pF GJM1555C1H6R6CB01# ±0.5pF GJM1555C1H6R6DB01# ±0.05pF GJM1555C1H6R7WB01# ±0.1pF GJM1555C1H6R7BB01# ±0.25pF GJM1555C1H6R7CB01# ±0.5pF GJM1555C1H6R7DB01# ±0.05pF GJM1555C1H6R8WB01# ±0.1pF GJM1555C1H6R8BB01# ±0.25pF GJM1555C1H6R8CB01# ±0.5pF GJM1555C1H6R8CB01# ±0.5pF GJM1555C1H6R8CB01#				<u> </u>		
±0.1pF GJM1555C1H6R6BB01# ±0.25pF GJM1555C1H6R6CB01# ±0.5pF GJM1555C1H6R6DB01# ±0.05pF GJM1555C1H6R7WB01# ±0.1pF GJM1555C1H6R7BB01# ±0.25pF GJM1555C1H6R7CB01# ±0.5pF GJM1555C1H6R7DB01# ±0.5pF GJM1555C1H6R8WB01# ±0.1pF GJM1555C1H6R8WB01# ±0.25pF GJM1555C1H6R8CB01# ±0.25pF GJM1555C1H6R8CB01#						
±0.25pF GJM1555C1H6R6CB01# ±0.5pF GJM1555C1H6R6DB01# ±0.05pF GJM1555C1H6R7WB01# ±0.1pF GJM1555C1H6R7CB01# ±0.25pF GJM1555C1H6R7CB01# ±0.5pF GJM1555C1H6R7DB01# ±0.5pF GJM1555C1H6R8WB01# ±0.1pF GJM1555C1H6R8BB01# ±0.25pF GJM1555C1H6R8CB01# ±0.5pF GJM1555C1H6R8CB01#			6.6pF	<u> </u>		
### ##################################				<u> </u>		
6.7pF ±0.05pF GJM1555C1H6R7WB01# ±0.1pF GJM1555C1H6R7BB01# ±0.25pF GJM1555C1H6R7CB01# ±0.5pF GJM1555C1H6R7DB01# 6.8pF ±0.05pF GJM1555C1H6R8WB01# ±0.1pF GJM1555C1H6R8BB01# ±0.25pF GJM1555C1H6R8CB01# ±0.5pF GJM1555C1H6R8CB01#				<u> </u>		
±0.1pF GJM1555C1H6R7BB01# ±0.25pF GJM1555C1H6R7CB01# ±0.5pF GJM1555C1H6R7DB01# 6.8pF ±0.05pF GJM1555C1H6R8WB01# ±0.1pF GJM1555C1H6R8BB01# ±0.25pF GJM1555C1H6R8CB01# ±0.5pF GJM1555C1H6R8DB01#						
±0.25pF GJM1555C1H6R7CB01# ±0.5pF GJM1555C1H6R7DB01# 6.8pF ±0.05pF GJM1555C1H6R8WB01# ±0.1pF GJM1555C1H6R8BB01# ±0.25pF GJM1555C1H6R8CB01# ±0.5pF GJM1555C1H6R8DB01#			6.7pF	· ·		
±0.5pF GJM1555C1H6R7DB01# 6.8pF ±0.05pF GJM1555C1H6R8WB01# ±0.1pF GJM1555C1H6R8BB01# ±0.25pF GJM1555C1H6R8CB01# ±0.5pF GJM1555C1H6R8DB01#						
6.8pF ±0.05pF GJM1555C1H6R8WB01# ±0.1pF GJM1555C1H6R8BB01# ±0.25pF GJM1555C1H6R8CB01# ±0.5pF GJM1555C1H6R8DB01#				<u> </u>		
±0.1pF GJM1555C1H6R8BB01# ±0.25pF GJM1555C1H6R8CB01# ±0.5pF GJM1555C1H6R8DB01#						
±0.25pF GJM1555C1H6R8CB01# ±0.5pF GJM1555C1H6R8DB01#			6.8pF			
±0.5pF GJM1555C1H6R8DB01#				-		
6.9pr ±0.05pr GJM1555C1H6H9WB01#			60-5			
Part number # indicates the package specification code.						



(1	.0×0.5r	mm)			
T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number
0.55mm	50Vdc	COG	6.9pF	±0.1pF	GJM1555C1H6R9BB01#
				±0.25pF	GJM1555C1H6R9CB01#
				±0.5pF	GJM1555C1H6R9DB01#
			7.0pF	±0.05pF	GJM1555C1H7R0WB01#
				±0.1pF	GJM1555C1H7R0BB01#
				±0.25pF	GJM1555C1H7R0CB01#
				±0.5pF	GJM1555C1H7R0DB01#
			7.1pF	±0.05pF	GJM1555C1H7R1WB01#
				±0.1pF	GJM1555C1H7R1BB01#
				±0.25pF	GJM1555C1H7R1CB01#
				±0.5pF	GJM1555C1H7R1DB01#
			7.2pF	±0.05pF	GJM1555C1H7R2WB01#
				±0.1pF	GJM1555C1H7R2BB01#
				±0.25pF	GJM1555C1H7R2CB01#
				±0.5pF	GJM1555C1H7R2DB01#
			7.3pF	±0.05pF	GJM1555C1H7R3WB01#
				±0.1pF	GJM1555C1H7R3BB01#
				±0.25pF	GJM1555C1H7R3CB01#
				±0.5pF	GJM1555C1H7R3DB01#
			7.4pF	±0.05pF	GJM1555C1H7R4WB01#
				±0.1pF	GJM1555C1H7R4BB01#
				±0.25pF	GJM1555C1H7R4CB01#
				±0.5pF	GJM1555C1H7R4DB01#
			7.5pF	±0.05pF	GJM1555C1H7R5WB01#
				±0.1pF	GJM1555C1H7R5BB01#
				±0.25pF	GJM1555C1H7R5CB01#
				±0.5pF	GJM1555C1H7R5DB01#
			7.6pF	±0.05pF	GJM1555C1H7R6WB01#
				±0.1pF	GJM1555C1H7R6BB01#
				±0.25pF	GJM1555C1H7R6CB01#
				±0.5pF	GJM1555C1H7R6DB01#
			7.7pF	±0.05pF	GJM1555C1H7R7WB01#
				±0.1pF	GJM1555C1H7R7BB01#
				±0.25pF	GJM1555C1H7R7CB01#
				±0.5pF	GJM1555C1H7R7DB01#
			7.8pF	±0.05pF	GJM1555C1H7R8WB01#
				±0.1pF	GJM1555C1H7R8BB01#
				±0.25pF	GJM1555C1H7R8CB01#
				±0.5pF	GJM1555C1H7R8DB01#
			7.9pF	±0.05pF	GJM1555C1H7R9WB01#
				±0.1pF	GJM1555C1H7R9BB01#
				±0.25pF	GJM1555C1H7R9CB01#
				±0.5pF	GJM1555C1H7R9DB01#
			8.0pF	±0.05pF	GJM1555C1H8R0WB01#
				±0.1pF	GJM1555C1H8R0BB01#
				±0.25pF	GJM1555C1H8R0CB01#
				±0.5pF	GJM1555C1H8R0DB01#
			8.1pF	±0.05pF	GJM1555C1H8R1WB01#
				±0.1pF	GJM1555C1H8R1BB01#
				±0.25pF	GJM1555C1H8R1CB01#
				±0.5pF	GJM1555C1H8R1DB01#
			8.2pF	±0.05pF	GJM1555C1H8R2WB01#
				±0.1pF	GJM1555C1H8R2BB01#
				±0.25pF	GJM1555C1H8R2CB01#

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number	
0.55mm	50Vdc	COG	8.2pF	±0.5pF	GJM1555C1H8R2DB01#	
			8.3pF	±0.05pF	GJM1555C1H8R3WB01#	
				±0.1pF	GJM1555C1H8R3BB01#	
				±0.25pF	GJM1555C1H8R3CB01#	
				±0.5pF	GJM1555C1H8R3DB01#	
			8.4pF	±0.05pF	GJM1555C1H8R4WB01#	
				±0.1pF	GJM1555C1H8R4BB01#	
				±0.25pF	GJM1555C1H8R4CB01#	
				±0.5pF	GJM1555C1H8R4DB01#	
			8.5pF	±0.05pF	GJM1555C1H8R5WB01#	
				±0.1pF	GJM1555C1H8R5BB01#	
				±0.25pF	GJM1555C1H8R5CB01#	
				±0.5pF	GJM1555C1H8R5DB01#	
			8.6pF	±0.05pF	GJM1555C1H8R6WB01#	
				±0.1pF	GJM1555C1H8R6BB01#	
				±0.25pF	GJM1555C1H8R6CB01#	
				±0.5pF	GJM1555C1H8R6DB01#	
			8.7pF	±0.05pF	GJM1555C1H8R7WB01#	
				±0.1pF	GJM1555C1H8R7BB01#	
				±0.25pF	GJM1555C1H8R7CB01#	
				±0.5pF	GJM1555C1H8R7DB01#	
			8.8pF	±0.05pF	GJM1555C1H8R8WB01#	
				±0.1pF	GJM1555C1H8R8BB01#	
				±0.25pF	GJM1555C1H8R8CB01#	
				±0.5pF	GJM1555C1H8R8DB01#	
			8.9pF	±0.05pF	GJM1555C1H8R9WB01#	
				±0.1pF	GJM1555C1H8R9BB01#	
				±0.25pF	GJM1555C1H8R9CB01#	
				±0.5pF	GJM1555C1H8R9DB01#	
			9.0pF	±0.05pF	GJM1555C1H9R0WB01#	
				±0.1pF	GJM1555C1H9R0BB01#	
				±0.25pF	GJM1555C1H9R0CB01#	
				±0.5pF	GJM1555C1H9R0DB01#	
			9.1pF	±0.05pF	GJM1555C1H9R1WB01#	
				±0.1pF	GJM1555C1H9R1BB01#	
				±0.25pF	GJM1555C1H9R1CB01#	
				±0.5pF	GJM1555C1H9R1DB01#	
			9.2pF	±0.05pF	GJM1555C1H9R2WB01#	
				±0.1pF	GJM1555C1H9R2BB01#	
				±0.25pF	GJM1555C1H9R2CB01#	
			0	±0.5pF	GJM1555C1H9R2DB01#	
			9.3pF	±0.05pF	GJM1555C1H9R3WB01#	
				±0.1pF	GJM1555C1H9R3BB01#	
				±0.25pF	GJM1555C1H9R3CB01#	
				±0.5pF	GJM1555C1H9R3DB01#	
			9.4pF	±0.05pF	GJM1555C1H9R4WB01#	
				±0.1pF	GJM1555C1H9R4BB01#	
				±0.25pF	GJM1555C1H9R4CB01#	
				±0.5pF	GJM1555C1H9R4DB01#	
			9.5pF	±0.05pF	GJM1555C1H9R5WB01#	
				±0.1pF	GJM1555C1H9R5BB01#	
				±0.25pF	GJM1555C1H9R5CB01#	
				±0.5pF	GJM1555C1H9R5DB01#	
			9.6pF	±0.05pF	GJM1555C1H9R6WB01#	

Т max. 0.55mm

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number
.55mm	50Vdc	COG	9.6pF	±0.1pF	GJM1555C1H9R6BB01#
				±0.25pF	GJM1555C1H9R6CB01#
				±0.5pF	GJM1555C1H9R6DB01#
			9.7pF	±0.05pF	GJM1555C1H9R7WB01#
				±0.1pF	GJM1555C1H9R7BB01#
				±0.25pF	GJM1555C1H9R7CB01#
				±0.5pF	GJM1555C1H9R7DB01#
			9.8pF	±0.05pF	GJM1555C1H9R8WB01#
				±0.1pF	GJM1555C1H9R8BB01#
				±0.25pF	GJM1555C1H9R8CB01#
				±0.5pF	GJM1555C1H9R8DB01#
			9.9pF	±0.05pF	GJM1555C1H9R9WB01#
				±0.1pF	GJM1555C1H9R9BB01#
				±0.25pF	GJM1555C1H9R9CB01#
				±0.5pF	GJM1555C1H9R9DB01#
			10pF	±2%	GJM1555C1H100GB01#
			ιυρι	±5%	GJM1555C1H100GB01#
			11nE		
			11pF	±2%	GJM1555C1H110GB01#
			10.5	±5%	GJM1555C1H110JB01#
			12pF	±2%	GJM1555C1H120GB01#
				±5%	GJM1555C1H120JB01#
			13pF	±2%	GJM1555C1H130GB01#
				±5%	GJM1555C1H130JB01#
			15pF	±2%	GJM1555C1H150GB01#
			10-5	±5%	GJM1555C1H150JB01#
			16pF	±2%	GJM1555C1H160GB01#
				±5%	GJM1555C1H160JB01#
			18pF	±2%	GJM1555C1H180GB01#
				±5%	GJM1555C1H180JB01#
			20pF	±2%	GJM1555C1H200GB01#
				±5%	GJM1555C1H200JB01#
			22pF	±1%	GJM1555C1H220FB01#
				±2%	GJM1555C1H220GB01#
				±5%	GJM1555C1H220JB01#
			24pF	±1%	GJM1555C1H240FB01#
				±2%	GJM1555C1H240GB01#
				±5%	GJM1555C1H240JB01#
			27pF	±1%	GJM1555C1H270FB01#
			· F.	±2%	GJM1555C1H270GB01#
				±5%	GJM1555C1H270JB01#
			30pF	±1%	GJM1555C1H300FB01#
			σορι		GJM1555C1H300GB01#
				±2%	
			00.5	±5%	GJM1555C1H300JB01#
			33pF	±1%	GJM1555C1H330FB01#
				±2%	GJM1555C1H330GB01#
				±5%	GJM1555C1H330JB01#
			36pF	±1%	GJM1555C1H360FB01#
				±2%	GJM1555C1H360GB01#
				±5%	GJM1555C1H360JB01#
			39pF	±1%	GJM1555C1H390FB01#
				±2%	GJM1555C1H390GB01#
				±5%	GJM1555C1H390JB01#
			43pF	±1%	GJM1555C1H430FB01#

Datad	TC			
Rated Voltage	TC Code	Сар.	Tol.	Part Number
50Vdc	COG	43pF	±5%	GJM1555C1H430JB01#
		47pF	±1%	GJM1555C1H470FB01#
			±2%	GJM1555C1H470GB01#
			±5%	GJM1555C1H470JB01#
	CK	0.1pF	±0.05pF	GJM1554C1HR10WB01#
			±0.1pF	GJM1554C1HR10BB01#
		0.2pF	±0.05pF	GJM1554C1HR20WB01#
			±0.1pF	GJM1554C1HR20BB01#
		0.3pF	±0.05pF	GJM1554C1HR30WB01#
			±0.1pF	GJM1554C1HR30BB01#
		0.4pF	±0.05pF	GJM1554C1HR40WB01#
			±0.1pF	GJM1554C1HR40BB01#
		0.5pF	±0.05pF	GJM1554C1HR50WB01#
			±0.1pF	GJM1554C1HR50BB01#
		0.6pF	±0.05pF	GJM1554C1HR60WB01#
			±0.1pF	GJM1554C1HR60BB01#
		0.7pF	±0.05pF	GJM1554C1HR70WB01#
			±0.1pF	GJM1554C1HR70BB01#
		0.8pF	±0.05pF	GJM1554C1HR80WB01#
			±0.1pF	GJM1554C1HR80BB01#
		0.9pF	±0.05pF	GJM1554C1HR90WB01#
			±0.1pF	GJM1554C1HR90BB01#
	1.0pF	1.0pF	±0.05pF	GJM1554C1H1R0WB01#
			±0.1pF	GJM1554C1H1R0BB01#
			±0.25pF	GJM1554C1H1R0CB01#
		1.1pF	±0.05pF	GJM1554C1H1R1WB01#
			±0.1pF	GJM1554C1H1R1BB01#
			±0.25pF	GJM1554C1H1R1CB01#
		1.2pF	±0.05pF	GJM1554C1H1R2WB01#
			±0.1pF	GJM1554C1H1R2BB01#
			±0.25pF	GJM1554C1H1R2CB01#
		1.3pF	±0.05pF	GJM1554C1H1R3WB01#
			±0.1pF	GJM1554C1H1R3BB01#
			±0.25pF	GJM1554C1H1R3CB01#
		1.4pF	±0.05pF	GJM1554C1H1R4WB01#
			±0.1pF	GJM1554C1H1R4BB01#
			±0.25pF	GJM1554C1H1R4CB01#
		1.5pF	±0.05pF	GJM1554C1H1R5WB01#
			±0.1pF	GJM1554C1H1R5BB01#
			±0.25pF	GJM1554C1H1R5CB01#
		1.6pF	±0.05pF	GJM1554C1H1R6WB01#
			±0.1pF	GJM1554C1H1R6BB01#
		. –	±0.25pF	GJM1554C1H1R6CB01#
		1.7pF	±0.05pF	GJM1554C1H1R7WB01#
			±0.1pF	GJM1554C1H1R7BB01#
		10.5	±0.25pF	GJM1554C1H1R7CB01#
		1.8pF	±0.05pF	GJM1554C1H1R8WB01#
			±0.1pF	GJM1554C1H1R8BB01#
		1.9pF	±0.25pF ±0.05pF	GJM1554C1H1R8CB01# GJM1554C1H1R9WB01#
		1.3pF	±0.05pF	GJM1554C1H1R9WB01#
			±0.1pr	GJM1554C1H1R9CB01#
		2.0pF	±0.05pF	GJM1554C1H2R0WB01#
			±0.1pF	GJM1554C1H2R0BB01#



GJM Series Temperature Compensating Type Hio Part Number List

T max.	Rated Voltage	TC Code	Сар.	Tol.	Part Number
0.55mm	50Vdc	СК	2.0pF	±0.25pF	GJM1554C1H2R0CB01#
		CJ	2.1pF	±0.05pF	GJM1553C1H2R1WB01#
				±0.1pF	GJM1553C1H2R1BB01#
				±0.25pF	GJM1553C1H2R1CB01#
			2.2pF	±0.05pF	GJM1553C1H2R2WB01#
				±0.1pF	GJM1553C1H2R2BB01#
				±0.25pF	GJM1553C1H2R2CB01#
			2.3pF	±0.05pF	GJM1553C1H2R3WB01#
				±0.1pF	GJM1553C1H2R3BB01#
				±0.25pF	GJM1553C1H2R3CB01#
			2.4pF	±0.05pF	GJM1553C1H2R4WB01#
				±0.1pF	GJM1553C1H2R4BB01#
				±0.25pF	GJM1553C1H2R4CB01#
			2.5pF	±0.05pF	GJM1553C1H2R5WB01#
			•	±0.1pF	GJM1553C1H2R5BB01#
				±0.25pF	GJM1553C1H2R5CB01#
			2.6pF	±0.05pF	GJM1553C1H2R6WB01#
				±0.1pF	GJM1553C1H2R6BB01#
				±0.25pF	GJM1553C1H2R6CB01#
			2.7pF	±0.05pF	GJM1553C1H2R7WB01#
			z., p.	±0.1pF	GJM1553C1H2R7BB01#
				±0.25pF	GJM1553C1H2R7CB01#
			2.8pF	±0.05pF	GJM1553C1H2R8WB01#
			2.0pi	-	
				±0.1pF	GJM1553C1H2R8BB01#
			0.05	±0.25pF	GJM1553C1H2R8CB01# GJM1553C1H2R9WB01#
			2.9pF	±0.05pF	
				±0.1pF	GJM1553C1H2R9BB01#
				±0.25pF	GJM1553C1H2R9CB01#
			3.0pF	±0.05pF	GJM1553C1H3R0WB01#
				±0.1pF	GJM1553C1H3R0BB01#
				±0.25pF	GJM1553C1H3R0CB01#
			3.1pF	±0.05pF	GJM1553C1H3R1WB01#
				±0.1pF	GJM1553C1H3R1BB01#
				±0.25pF	GJM1553C1H3R1CB01#
			3.2pF	±0.05pF	GJM1553C1H3R2WB01#
				±0.1pF	GJM1553C1H3R2BB01#
				±0.25pF	GJM1553C1H3R2CB01#
			3.3pF	±0.05pF	GJM1553C1H3R3WB01#
				±0.1pF	GJM1553C1H3R3BB01#
				±0.25pF	GJM1553C1H3R3CB01#
			3.4pF	±0.05pF	GJM1553C1H3R4WB01#
				±0.1pF	GJM1553C1H3R4BB01#
				±0.25pF	GJM1553C1H3R4CB01#
			3.5pF	±0.05pF	GJM1553C1H3R5WB01#
				±0.1pF	GJM1553C1H3R5BB01#
				±0.25pF	GJM1553C1H3R5CB01#
			3.6pF	±0.05pF	GJM1553C1H3R6WB01#
			•	±0.1pF	GJM1553C1H3R6BB01#
				±0.25pF	GJM1553C1H3R6CB01#
			3.7pF	±0.05pF	GJM1553C1H3R7WB01#
			- · · P ·	±0.1pF	GJM1553C1H3R7BB01#
				±0.25pF	GJM1553C1H3R7CB01#
			3.8pF	±0.25pi	GJM1553C1H3R8WB01#
			0.0pi	±0.00pi	COM 10000 HIGHOWEDUIT

T max.	Rated Voltage	TC Code	Сар.	Tol.	Part Number	
0.55mm	50Vdc	CJ	3.8pF	±0.25pF	GJM1553C1H3R8CB01#	
			3.9pF	±0.05pF	GJM1553C1H3R9WB01#	
				±0.1pF	GJM1553C1H3R9BB01#	
				±0.25pF	GJM1553C1H3R9CB01#	
		CH	4.0pF	±0.05pF	GJM1552C1H4R0WB01#	
				±0.1pF	GJM1552C1H4R0BB01#	
				±0.25pF	GJM1552C1H4R0CB01#	
			4.1pF	±0.05pF	GJM1552C1H4R1WB01#	
				±0.1pF	GJM1552C1H4R1BB01#	
				±0.25pF	GJM1552C1H4R1CB01#	
			4.2pF	±0.05pF	GJM1552C1H4R2WB01#	
				±0.1pF	GJM1552C1H4R2BB01#	
				±0.25pF	GJM1552C1H4R2CB01#	
			4.3pF	±0.05pF	GJM1552C1H4R3WB01#	
				±0.1pF	GJM1552C1H4R3BB01#	
				±0.25pF	GJM1552C1H4R3CB01#	
			4.4pF	±0.05pF	GJM1552C1H4R4WB01#	
				±0.1pF	GJM1552C1H4R4BB01#	
				±0.25pF	GJM1552C1H4R4CB01#	
			4.5pF	±0.05pF	GJM1552C1H4R5WB01#	
			10.5	±0.1pF	GJM1552C1H4R5BB01#	
				±0.25pF	GJM1552C1H4R5CB01#	
			4.6pF	±0.05pF	GJM1552C1H4R6WB01#	
				±0.1pF	GJM1552C1H4R6BB01#	
			4.7	±0.25pF	GJM1552C1H4R6CB01#	
			4.7pF	±0.05pF	GJM1552C1H4R7WB01#	
				±0.1pF	GJM1552C1H4R7BB01#	
			4.0	±0.25pF	GJM1552C1H4R7CB01#	
			4.8pF	±0.05pF	GJM1552C1H4R8WB01#	
				±0.1pF	GJM1552C1H4R8BB01#	
			1.05	±0.25pF	GJM1552C1H4R8CB01#	
			4.9pF	±0.05pF	GJM1552C1H4R9WB01#	
				±0.1pF	GJM1552C1H4R9BB01#	
			F 0=F	±0.25pF	GJM1552C1H4R9CB01#	
			5.0pF	±0.05pF	GJM1552C1H5R0WB01# GJM1552C1H5R0BB01#	
				±0.1pF	GJM1552C1H5R0CB01#	
			5.1pF	±0.25pF	GJM1552C1H5R1WB01#	
			J.1 μ Γ	±0.05pF ±0.1pF	GJM1552C1H5R1WB01#	
				±0.1pr ±0.25pF	GJM1552C1H5R1CB01#	
				±0.5pF	GJM1552C1H5R1DB01#	
			5.2pF	±0.05pF	GJM1552C1H5R2WB01#	
			J.2pi	±0.05pF	GJM1552C1H5R2BB01#	
				±0.25pF	GJM1552C1H5R2CB01#	_
				±0.25pF	GJM1552C1H5R2DB01#	_
			5.3pF	±0.05pF	GJM1552C1H5R3WB01#	
			o.opi	±0.1pF	GJM1552C1H5R3BB01#	
				±0.25pF	GJM1552C1H5R3CB01#	
				±0.5pF	GJM1552C1H5R3DB01#	
			5.4pF	±0.05pF	GJM1552C1H5R4WB01#	
			p.	±0.1pF	GJM1552C1H5R4BB01#	_
				±0.25pF	GJM1552C1H5R4CB01#	_
				±0.5pF	GJM1552C1H5R4DB01#	_
				3.0p.		

For General Purpose GRM Series

Capacitor Array GNM Series

GJM Series Temperature Compensating Type Hio **Part Number List**

Т

max. 0.55mm

T max.	Rated Voltage	TC Code	Сар.	Tol.	Part Number
0.55mm	50Vdc	СН	5.5pF	±0.1pF	GJM1552C1H5R5BB01#
				±0.25pF	GJM1552C1H5R5CB01#
				±0.5pF	GJM1552C1H5R5DB01#
			5.6pF	±0.05pF	GJM1552C1H5R6WB01#
				±0.1pF	GJM1552C1H5R6BB01#
				±0.25pF	GJM1552C1H5R6CB01#
				±0.5pF	GJM1552C1H5R6DB01#
			5.7pF	±0.05pF	
			о р.	±0.1pF	GJM1552C1H5R7BB01#
				±0.25pF	GJM1552C1H5R7CB01#
				±0.5pF	GJM1552C1H5R7DB01#
			5.8pF	-	GJM1552C1H5R8WB01#
			5.opr	±0.05pF	
				±0.1pF	GJM1552C1H5R8BB01#
				±0.25pF	GJM1552C1H5R8CB01#
				±0.5pF	GJM1552C1H5R8DB01#
			5.9pF	±0.05pF	GJM1552C1H5R9WB01#
				±0.1pF	GJM1552C1H5R9BB01#
				±0.25pF	GJM1552C1H5R9CB01#
				±0.5pF	GJM1552C1H5R9DB01#
			6.0pF	±0.05pF	GJM1552C1H6R0WB01#
				±0.1pF	GJM1552C1H6R0BB01#
				±0.25pF	GJM1552C1H6R0CB01#
				±0.5pF	GJM1552C1H6R0DB01#
			6.1pF	±0.05pF	GJM1552C1H6R1WB01#
				±0.1pF	GJM1552C1H6R1BB01#
				±0.25pF	GJM1552C1H6R1CB01#
				±0.5pF	GJM1552C1H6R1DB01#
			6.2pF	±0.05pF	GJM1552C1H6R2WB01#
			•	±0.1pF	GJM1552C1H6R2BB01#
				±0.25pF	GJM1552C1H6R2CB01#
				±0.5pF	GJM1552C1H6R2DB01#
			6.3pF	±0.05pF	GJM1552C1H6R3WB01#
			0.001	±0.1pF	GJM1552C1H6R3BB01#
				-	
				±0.25pF	GJM1552C1H6R3CB01#
			0.4.5	±0.5pF	GJM1552C1H6R3DB01#
			6.4pF	±0.05pF	GJM1552C1H6R4WB01#
				±0.1pF	GJM1552C1H6R4BB01#
				±0.25pF	GJM1552C1H6R4CB01#
				±0.5pF	GJM1552C1H6R4DB01#
			6.5pF	±0.05pF	GJM1552C1H6R5WB01#
				±0.1pF	GJM1552C1H6R5BB01#
				±0.25pF	GJM1552C1H6R5CB01#
				±0.5pF	GJM1552C1H6R5DB01#
			6.6pF	±0.05pF	GJM1552C1H6R6WB01#
				±0.1pF	GJM1552C1H6R6BB01#
				±0.25pF	GJM1552C1H6R6CB01#
				±0.5pF	GJM1552C1H6R6DB01#
			6.7pF	±0.05pF	GJM1552C1H6R7WB01#
			14.	±0.1pF	GJM1552C1H6R7BB01#
				±0.25pF	GJM1552C1H6R7CB01#
				±0.25pi	GJM1552C1H6R7DB01#
			6 0 n E	-	
			6.8pF	±0.05pF	GJM1552C1H6R8WB01#
				±0.1pF	GJM1552C1H6R8BB01#
				±0.25pF	GJM1552C1H6R8CB01#

Rated Voltage	TC Code	Сар.	Tol.	Part Number	
50Vdc	СН	6.8pF	±0.5pF	GJM1552C1H6R8DB01#	
		6.9pF	±0.05pF	GJM1552C1H6R9WB01#	
			±0.1pF	GJM1552C1H6R9BB01#	
			±0.25pF	GJM1552C1H6R9CB01#	
			±0.5pF	GJM1552C1H6R9DB01#	
		7.0pF	±0.05pF	GJM1552C1H7R0WB01#	
			±0.1pF	GJM1552C1H7R0BB01#	
			±0.25pF	GJM1552C1H7R0CB01#	
			±0.5pF	GJM1552C1H7R0DB01#	
		7.1pF	±0.05pF	GJM1552C1H7R1WB01#	
			±0.1pF	GJM1552C1H7R1BB01#	
			±0.25pF	GJM1552C1H7R1CB01#	
			±0.5pF	GJM1552C1H7R1DB01#	
		7.2pF	±0.05pF	GJM1552C1H7R2WB01#	
			±0.1pF	GJM1552C1H7R2BB01#	
			±0.25pF	GJM1552C1H7R2CB01#	
			±0.5pF	GJM1552C1H7R2DB01#	
		7.3pF	±0.05pF	GJM1552C1H7R3WB01#	
			±0.1pF	GJM1552C1H7R3BB01#	
			±0.25pF	GJM1552C1H7R3CB01#	
			±0.5pF	GJM1552C1H7R3DB01#	
		7.4pF	±0.05pF	GJM1552C1H7R4WB01#	
			±0.1pF	GJM1552C1H7R4BB01#	
			±0.25pF	GJM1552C1H7R4CB01#	
			±0.5pF	GJM1552C1H7R4DB01#	
		7.5pF	±0.05pF	GJM1552C1H7R5WB01#	
			±0.1pF	GJM1552C1H7R5BB01#	
			±0.25pF	GJM1552C1H7R5CB01#	
			±0.5pF	GJM1552C1H7R5DB01#	
		7.6pF	±0.05pF	GJM1552C1H7R6WB01#	
			±0.1pF	GJM1552C1H7R6BB01#	
			±0.25pF	GJM1552C1H7R6CB01#	
			±0.5pF	GJM1552C1H7R6DB01#	
		7.7pF	±0.05pF	GJM1552C1H7R7WB01#	
			±0.1pF	GJM1552C1H7R7BB01#	
			±0.25pF	GJM1552C1H7R7CB01#	
		7.0 -	±0.5pF	GJM1552C1H7R7DB01#	
		7.8pF	±0.05pF	GJM1552C1H7R8WB01#	
			±0.1pF	GJM1552C1H7R8BB01#	
			±0.25pF	GJM1552C1H7R8CB01#	
		70-5	±0.5pF	GJM1552C1H7R8DB01#	
		7.9pF	±0.05pF	GJM1552C1H7R9WB01#	
			±0.1pF	GJM1552C1H7R9BB01#	
			±0.25pF	GJM1552C1H7R9CB01#	
		۵ ۵۰۰	±0.5pF	GJM1552C1H7R9DB01#	
		8.0pF	±0.05pF	GJM1552C1H8R0WB01# GJM1552C1H8R0BB01#	
			±0.1pF ±0.25pF	GJM1552C1H8R0CB01#	
			· ·	GJM1552C1H8R0DB01#	
		8.1pF	±0.5pF	GJM1552C1H8R1WB01#	
		υ. ιμΓ	±0.05pF ±0.1pF	GJM1552C1H8R1BB01#	
			±0.1pF ±0.25pF	GJM1552C1H8R1CB01#	
			±0.25pF	GJM1552C1H8R1DB01#	
		8.2pF	±0.05pF	GJM1552C1H8R2WB01#	
<u> </u>	<u> </u>	•		cates the package specification	code

→ ■ 1	.0×0.51	nm)			
T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number
0.55mm	50Vdc	СН	8.2pF	±0.1pF	GJM1552C1H8R2BB01#
				±0.25pF	GJM1552C1H8R2CB01#
				±0.5pF	GJM1552C1H8R2DB01#
			8.3pF	±0.05pF	GJM1552C1H8R3WB01#
				±0.1pF	GJM1552C1H8R3BB01#
				±0.25pF	GJM1552C1H8R3CB01#
				±0.5pF	GJM1552C1H8R3DB01#
			8.4pF	±0.05pF	GJM1552C1H8R4WB01#
				±0.1pF	GJM1552C1H8R4BB01#
				±0.25pF	GJM1552C1H8R4CB01#
				±0.5pF	GJM1552C1H8R4DB01#
			8.5pF	±0.05pF	GJM1552C1H8R5WB01#
				±0.1pF	GJM1552C1H8R5BB01#
				±0.25pF	GJM1552C1H8R5CB01#
				±0.5pF	GJM1552C1H8R5DB01#
			8.6pF	±0.05pF	GJM1552C1H8R6WB01#
				±0.1pF	GJM1552C1H8R6BB01#
				±0.25pF	GJM1552C1H8R6CB01#
				±0.5pF	GJM1552C1H8R6DB01#
			8.7pF	±0.05pF	GJM1552C1H8R7WB01#
			•	±0.1pF	GJM1552C1H8R7BB01#
				±0.25pF	GJM1552C1H8R7CB01#
				±0.5pF	GJM1552C1H8R7DB01#
			8.8pF	±0.05pF	GJM1552C1H8R8WB01#
			о.ор.	±0.1pF	GJM1552C1H8R8BB01#
				±0.25pF	GJM1552C1H8R8CB01#
				±0.5pF	GJM1552C1H8R8DB01#
			8.9pF	±0.05pF	GJM1552C1H8R9WB01#
			0.5pi	±0.1pF	GJM1552C1H8R9BB01#
				±0.25pF	GJM1552C1H8R9CB01#
			0.05	±0.5pF	GJM1552C1H8R9DB01#
			9.0pF	±0.05pF	GJM1552C1H9R0WB01#
				±0.1pF	GJM1552C1H9R0BB01#
				±0.25pF	
				±0.5pF	GJM1552C1H9R0DB01#
			9.1pF	±0.05pF	GJM1552C1H9R1WB01#
				±0.1pF	GJM1552C1H9R1BB01#
				±0.25pF	GJM1552C1H9R1CB01#
				±0.5pF	GJM1552C1H9R1DB01#
			9.2pF	±0.05pF	GJM1552C1H9R2WB01#
				±0.1pF	GJM1552C1H9R2BB01#
				±0.25pF	GJM1552C1H9R2CB01#
				±0.5pF	GJM1552C1H9R2DB01#
			9.3pF	±0.05pF	GJM1552C1H9R3WB01#
				±0.1pF	GJM1552C1H9R3BB01#
				±0.25pF	GJM1552C1H9R3CB01#
				±0.5pF	GJM1552C1H9R3DB01#
			9.4pF	±0.05pF	GJM1552C1H9R4WB01#
				±0.1pF	GJM1552C1H9R4BB01#
				±0.25pF	GJM1552C1H9R4CB01#
				±0.5pF	GJM1552C1H9R4DB01#
			9.5pF	±0.05pF	GJM1552C1H9R5WB01#
			•	±0.1pF	GJM1552C1H9R5BB01#
	I			±0.25pF	GJM1552C1H9R5CB01#

T max.	Rated Voltage	TC Code	Сар.	Tol.	Part Number
0.55mm	50Vdc	СН	9.5pF	±0.5pF	GJM1552C1H9R5DB01#
			9.6pF	±0.05pF	GJM1552C1H9R6WB01#
				±0.1pF	GJM1552C1H9R6BB01#
				±0.25pF	GJM1552C1H9R6CB01#
				±0.5pF	GJM1552C1H9R6DB01#
			9.7pF	±0.05pF	GJM1552C1H9R7WB01#
				±0.1pF	GJM1552C1H9R7BB01#
				±0.25pF	GJM1552C1H9R7CB01#
				±0.5pF	GJM1552C1H9R7DB01#
			9.8pF	±0.05pF	GJM1552C1H9R8WB01#
				±0.1pF	GJM1552C1H9R8BB01#
				±0.25pF	GJM1552C1H9R8CB01#
				±0.5pF	GJM1552C1H9R8DB01#
			9.9pF	±0.05pF	GJM1552C1H9R9WB01#
				±0.1pF	GJM1552C1H9R9BB01#
				±0.25pF	GJM1552C1H9R9CB01#
				±0.5pF	GJM1552C1H9R9DB01#
			10pF	±2%	GJM1552C1H100GB01#
				±5%	GJM1552C1H100JB01#
			11pF	±2%	GJM1552C1H110GB01#
				±5%	GJM1552C1H110JB01#
			12pF	±2%	GJM1552C1H120GB01#
				±5%	GJM1552C1H120JB01#
			13pF	±2%	GJM1552C1H130GB01#
				±5%	GJM1552C1H130JB01#
			15pF	±2%	GJM1552C1H150GB01#
				±5%	GJM1552C1H150JB01#
			16pF	±2%	GJM1552C1H160GB01#
				±5%	GJM1552C1H160JB01#
			18pF	±2%	GJM1552C1H180GB01#
				±5%	GJM1552C1H180JB01#
			20pF	±2%	GJM1552C1H200GB01#
			00.5	±5%	GJM1552C1H200JB01#
			22pF	±1%	GJM1552C1H220FB01#
				±2%	GJM1552C1H220GB01#
			04-5	±5%	GJM1552C1H220JB01#
			24pF	±1%	GJM1552C1H240FB01#
				±2%	GJM1552C1H240GB01#
			075	±5%	GJM1552C1H240JB01#
			27pF	±1%	GJM1552C1H270FB01#
				±2%	GJM1552C1H270GB01#
			20	±5%	GJM1552C1H270JB01#
			30pF	±1%	GJM1552C1H300FB01#
				±2%	GJM1552C1H300GB01#
			20.5	±5%	GJM1552C1H300JB01#
			33pF	±1%	GJM1552C1H330FB01#
				±2%	GJM1552C1H330GB01#
			36nE	±5%	GJM1552C1H360EB01#
			36pF	±1%	GJM1552C1H360FB01#
				±2%	GJM1552C1H360GB01#
			20-5	±5%	GJM1552C1H360JB01#
			39pF	±1%	GJM1552C1H390FB01#
				±2%	GJM1552C1H390GB01#
			David reve	±5%	GJM1552C1H390JB01#

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number
0.55mm	50Vdc	СН	43pF	±1%	GJM1552C1H430FB01#
				±2%	GJM1552C1H430GB01#
				±5%	GJM1552C1H430JB01#
			47pF	±1%	GJM1552C1H470FB01#
				±2%	GJM1552C1H470GB01#
				±5%	GJM1552C1H470JB01#

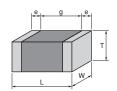
Chip Monolithic Ceramic Capacitors

High Frequency GQM Series

HiQ

Capacitor for high frequency suitable for PA designs.





- 11 HiQ and low ESR in UHF and microwave frequency bands.
- 2 Highly conductive copper was adopted for the internal electrodes.
- 3 Product compatible to tight tolerances.
- 4 Achieved high withstand voltages.
- 5 Ideal for improving the characteristics and reducing power consumption in RF equipment.



For General Purpose GRM Series

Capacitor Array GNM Series

GQM Series Temperature Compensating Type Hio Part Number List

■ 1.6×	×0.8mı	n			
T max.	Rated Voltage	TC Code	Сар.	Tol.	Part Number
0.8mm	250Vdc	COG	0.1pF	±0.1pF	GQM1875C2ER10BB12#
			0.2pF	±0.1pF	GQM1875C2ER20BB12#
			0.3pF	±0.1pF	GQM1875C2ER30BB12#
				±0.25pF	GQM1875C2ER30CB12#
			0.4pF	±0.1pF	GQM1875C2ER40BB12#
				±0.25pF	GQM1875C2ER40CB12#
			0.5pF	±0.1pF	GQM1875C2ER50BB12#
				±0.25pF	GQM1875C2ER50CB12#
			0.75pF	±0.1pF	GQM1875C2ER75BB12#
				±0.25pF	GQM1875C2ER75CB12#
			1.0pF	±0.1pF	GQM1875C2E1R0BB12#
				±0.25pF	GQM1875C2E1R0CB12#
			1.1pF	±0.1pF	GQM1875C2E1R1BB12#
				±0.25pF	GQM1875C2E1R1CB12#
			1.2pF	±0.1pF	GQM1875C2E1R2BB12#
				±0.25pF	GQM1875C2E1R2CB12#
			1.3pF	±0.1pF	GQM1875C2E1R3BB12#
				±0.25pF	GQM1875C2E1R3CB12#
			1.5pF	±0.1pF	GQM1875C2E1R5BB12#
			10.5	±0.25pF	GQM1875C2E1R5CB12#
			1.6pF	±0.1pF	GQM1875C2E1R6BB12#
			1.0-5	±0.25pF	GQM1875C2E1R6CB12#
			1.8pF	±0.1pF	GQM1875C2E1R8BB12#
			0.05	±0.25pF	GQM1875C2E1R8CB12#
			2.0pF	±0.1pF ±0.25pF	GQM1875C2E2R0BB12# GQM1875C2E2R0CB12#
			2.2pF	±0.23pi	GQM1875C2E2R2BB12#
			2.2μι	±0.1pi	GQM1875C2E2R2CB12#
			2.4pF	±0.1pF	GQM1875C2E2R4BB12#
			Z. IPI	±0.25pF	GQM1875C2E2R4CB12#
			2.7pF	±0.1pF	GQM1875C2E2R7BB12#
				±0.25pF	GQM1875C2E2R7CB12#
			3.0pF	±0.1pF	GQM1875C2E3R0BB12#
				±0.25pF	GQM1875C2E3R0CB12#
			3.3pF	±0.1pF	GQM1875C2E3R3BB12#
			·	±0.25pF	GQM1875C2E3R3CB12#
			3.6pF	±0.1pF	GQM1875C2E3R6BB12#
				±0.25pF	GQM1875C2E3R6CB12#
			3.9pF	±0.1pF	GQM1875C2E3R9BB12#
				±0.25pF	GQM1875C2E3R9CB12#
			4.0pF	±0.1pF	GQM1875C2E4R0BB12#
				±0.25pF	GQM1875C2E4R0CB12#
			4.3pF	±0.1pF	GQM1875C2E4R3BB12#
				±0.25pF	GQM1875C2E4R3CB12#
			4.7pF	±0.1pF	GQM1875C2E4R7BB12#
				±0.25pF	GQM1875C2E4R7CB12#
			5.0pF	±0.1pF	GQM1875C2E5R0BB12#
				±0.25pF	GQM1875C2E5R0CB12#
			5.1pF	±0.25pF	GQM1875C2E5R1CB12#
				±0.5pF	GQM1875C2E5R1DB12#
			5.6pF	±0.25pF	GQM1875C2E5R6CB12#
				±0.5pF	GQM1875C2E5R6DB12#

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T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number	
0.8mm	250Vdc	COG	6.0pF	±0.25pF	GQM1875C2E6R0CB12#	
				±0.5pF	GQM1875C2E6R0DB12#	
			6.2pF	±0.25pF	GQM1875C2E6R2CB12#	
				±0.5pF	GQM1875C2E6R2DB12#	
			6.8pF	±0.25pF	GQM1875C2E6R8CB12#	
				±0.5pF	GQM1875C2E6R8DB12#	
			7.0pF	±0.25pF	GQM1875C2E7R0CB12#	
				±0.5pF	GQM1875C2E7R0DB12#	
			7.5pF	±0.25pF	GQM1875C2E7R5CB12#	
				±0.5pF	GQM1875C2E7R5DB12#	
			8.0pF	±0.25pF	GQM1875C2E8R0CB12#	
				±0.5pF	GQM1875C2E8R0DB12#	
			8.2pF	±0.25pF	GQM1875C2E8R2CB12#	
				±0.5pF	GQM1875C2E8R2DB12#	
			9.0pF	±0.25pF	GQM1875C2E9R0CB12#	
				±0.5pF	GQM1875C2E9R0DB12#	
			9.1pF	±0.25pF	GQM1875C2E9R1CB12#	
				±0.5pF	GQM1875C2E9R1DB12#	
			10pF	±2%	GQM1875C2E100GB12#	
				±5%	GQM1875C2E100JB12#	
			11pF	±2%	GQM1875C2E110GB12#	
				±5%	GQM1875C2E110JB12#	
			12pF	±2%	GQM1875C2E120GB12#	
				±5%	GQM1875C2E120JB12#	
			13pF	±2%	GQM1875C2E130GB12#	
				±5%	GQM1875C2E130JB12#	
			15pF	±2%	GQM1875C2E150GB12#	
				±5%	GQM1875C2E150JB12#	
			16pF	±2%	GQM1875C2E160GB12#	
				±5%	GQM1875C2E160JB12#	
			18pF	±2%	GQM1875C2E180GB12#	
				±5%	GQM1875C2E180JB12#	
			20pF	±2%	GQM1875C2E200GB12#	
				±5%	GQM1875C2E200JB12#	
			22pF	±2%	GQM1875C2E220GB12#	
				±5%	GQM1875C2E220JB12#	
			24pF	±2%	GQM1875C2E240GB12#	
				±5%	GQM1875C2E240JB12#	
			27pF	±2%	GQM1875C2E270GB12#	
				±5%	GQM1875C2E270JB12#	
			30pF	±2%	GQM1875C2E300GB12#	
				±5%	GQM1875C2E300JB12#	
			33pF	±2%	GQM1875C2E330GB12#	
				±5%	GQM1875C2E330JB12#	
			36pF	±2%	GQM1875C2E360GB12#	
				±5%	GQM1875C2E360JB12#	
			39pF	±2%	GQM1875C2E390GB12#	
				±5%	GQM1875C2E390JB12#	
			43pF	±2%	GQM1875C2E430GB12#	
				±5%	GQM1875C2E430JB12#	
			47pF	±2%	GQM1875C2E470GB12#	
				±5%	GQM1875C2E470JB12#	
0.9mm	100Vdc	COG	0.5pF	±0.1pF	GQM1885C2AR50BB01#	
				±0.25pF	GQM1885C2AR50CB01#	
				· · ·		



(→ **■** 1.6×0.8mm)

Т	Rated	TC	Cap.	Tol.	Part Number
max.	Voltage			10.15	COM1005C0A D75DD01#
0.9mm	100Vdc	COG	0.75pF	±0.1pF ±0.25pF	GQM1885C2AR75BB01# GQM1885C2AR75CB01#
			1.0nE		GQM1885C2A1R0BB01#
			1.0pF	±0.1pF	
			1 1nE	±0.25pF	GQM1885C2A1R0CB01#
			1.1pF	±0.1pF	GQM1885C2A1R1BB01#
			1.05	±0.25pF	GQM1885C2A1R1CB01#
			1.2pF	±0.1pF	GQM1885C2A1R2BB01#
			40.5	±0.25pF	GQM1885C2A1R2CB01#
			1.3pF	±0.1pF	GQM1885C2A1R3BB01#
				±0.25pF	GQM1885C2A1R3CB01#
			1.5pF	±0.1pF	GQM1885C2A1R5BB01#
				±0.25pF	GQM1885C2A1R5CB01#
			1.6pF	±0.1pF	GQM1885C2A1R6BB01#
				±0.25pF	GQM1885C2A1R6CB01#
			1.8pF	±0.1pF	GQM1885C2A1R8BB01#
				±0.25pF	GQM1885C2A1R8CB01#
			2.0pF	±0.1pF	GQM1885C2A2R0BB01#
				±0.25pF	GQM1885C2A2R0CB01#
			2.2pF	±0.1pF	GQM1885C2A2R2BB01#
				±0.25pF	GQM1885C2A2R2CB01#
			2.4pF	±0.1pF	GQM1885C2A2R4BB01#
				±0.25pF	GQM1885C2A2R4CB01#
			2.7pF	±0.1pF	GQM1885C2A2R7BB01#
				±0.25pF	GQM1885C2A2R7CB01#
			3.0pF	±0.1pF	GQM1885C2A3R0BB01#
				±0.25pF	GQM1885C2A3R0CB01#
			3.3pF	±0.1pF	GQM1885C2A3R3BB01#
				±0.25pF	GQM1885C2A3R3CB01#
			3.6pF	±0.1pF	GQM1885C2A3R6BB01#
				±0.25pF	GQM1885C2A3R6CB01#
			3.9pF	±0.1pF	GQM1885C2A3R9BB01#
				±0.25pF	GQM1885C2A3R9CB01#
			4.0pF	±0.1pF	GQM1885C2A4R0BB01#
				±0.25pF	GQM1885C2A4R0CB01#
			4.3pF	±0.1pF	GQM1885C2A4R3BB01#
				±0.25pF	GQM1885C2A4R3CB01#
			4.7pF	±0.1pF	GQM1885C2A4R7BB01#
			·	±0.25pF	GQM1885C2A4R7CB01#
			5.0pF	±0.1pF	GQM1885C2A5R0BB01#
			•	±0.25pF	GQM1885C2A5R0CB01#
			5.1pF	±0.25pF	GQM1885C2A5R1CB01#
				±0.5pF	GQM1885C2A5R1DB01#
			5.6pF	±0.25pF	GQM1885C2A5R6CB01#
			p,	±0.5pF	GQM1885C2A5R6DB01#
			6.0pF	±0.25pF	GQM1885C2A6R0CB01#
			0.0pi	±0.5pF	GQM1885C2A6R0DB01#
			6.2pF	±0.25pF	GQM1885C2A6R2CB01#
			0. 2 pi	±0.5pF	GQM1885C2A6R2DB01#
			6 2nE	-	
			6.8pF	±0.25pF	GQM1885C2A6R8CB01#
		CV	0 5 - 5	±0.5pF	GQM1885C2A6R8DB01#
		CK	0.5pF	±0.1pF	GQM1884C2AR50BB01#
			0.75.5	±0.25pF	GQM1884C2AR50CB01#
			0.75pF	±0.1pF	GQM1884C2AR75BB01#
				±0.25pF	GQM1884C2AR75CB01#

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number	
0.9mm	100Vdc	СК	1.0pF	±0.1pF	GQM1884C2A1R0BB01#	
				±0.25pF	GQM1884C2A1R0CB01#	
			1.1pF	±0.1pF	GQM1884C2A1R1BB01#	
				±0.25pF	GQM1884C2A1R1CB01#	
			1.2pF	±0.1pF	GQM1884C2A1R2BB01#	
				±0.25pF	GQM1884C2A1R2CB01#	
			1.3pF	±0.1pF	GQM1884C2A1R3BB01#	
				±0.25pF	GQM1884C2A1R3CB01#	
			1.5pF	±0.1pF	GQM1884C2A1R5BB01#	
				±0.25pF	GQM1884C2A1R5CB01#	
			1.6pF	±0.1pF	GQM1884C2A1R6BB01#	
				±0.25pF	GQM1884C2A1R6CB01#	
			1.8pF	±0.1pF	GQM1884C2A1R8BB01#	
				±0.25pF	GQM1884C2A1R8CB01#	
			2.0pF	±0.1pF	GQM1884C2A2R0BB01#	
				±0.25pF	GQM1884C2A2R0CB01#	
		CJ	2.2pF	±0.1pF	GQM1883C2A2R2BB01#	
				±0.25pF	GQM1883C2A2R2CB01#	
			2.4pF	±0.1pF	GQM1883C2A2R4BB01#	
				±0.25pF	GQM1883C2A2R4CB01#	
			2.7pF	±0.1pF	GQM1883C2A2R7BB01#	
				±0.25pF	GQM1883C2A2R7CB01#	
			3.0pF	±0.1pF	GQM1883C2A3R0BB01#	
				±0.25pF	GQM1883C2A3R0CB01#	
			3.3pF	±0.1pF	GQM1883C2A3R3BB01#	
				±0.25pF	GQM1883C2A3R3CB01#	
			3.6pF	±0.1pF	GQM1883C2A3R6BB01#	
				±0.25pF	GQM1883C2A3R6CB01#	
			3.9pF	±0.1pF	GQM1883C2A3R9BB01#	
				±0.25pF	GQM1883C2A3R9CB01#	
		СН	4.0pF	±0.1pF	GQM1882C2A4R0BB01#	
				±0.25pF	GQM1882C2A4R0CB01#	
			4.3pF	±0.1pF	GQM1882C2A4R3BB01#	
				±0.25pF	GQM1882C2A4R3CB01#	
			4.7pF	±0.1pF	GQM1882C2A4R7BB01#	
				±0.25pF	GQM1882C2A4R7CB01#	
			5.0pF	±0.1pF	GQM1882C2A5R0BB01#	
				±0.25pF	GQM1882C2A5R0CB01#	
			5.1pF	±0.25pF	GQM1882C2A5R1CB01#	
				±0.5pF	GQM1882C2A5R1DB01#	
			5.6pF	±0.25pF	GQM1882C2A5R6CB01#	
				±0.5pF	GQM1882C2A5R6DB01#	
			6.0pF	±0.25pF	GQM1882C2A6R0CB01#	
				±0.5pF	GQM1882C2A6R0DB01#	
			6.2pF	±0.25pF	GQM1882C2A6R2CB01#	
				±0.5pF	GQM1882C2A6R2DB01#	
			6.8pF	±0.25pF	GQM1882C2A6R8CB01#	
				±0.5pF	GQM1882C2A6R8DB01#	
	50Vdc	COG	7.0pF	±0.25pF	GQM1885C1H7R0CB01#	
				±0.5pF	GQM1885C1H7R0DB01#	
			7.5pF	±0.25pF	GQM1885C1H7R5CB01#	
				±0.5pF	GQM1885C1H7R5DB01#	
			8.0pF	±0.25pF	GQM1885C1H8R0CB01#	
				±0.5pF	GQM1885C1H8R0DB01#	
			Part nur	nber # indic	cates the package specification co	ode.



For General Purpose GRM Series

Capacitor Array GNM Series

> Low ESL LL□ Series

GQM Series Temperature Compensating Type Hig Part Number List

Т

max.

0.9mm

(→ **■** 1.6×0.8mm)

(→ ■ 1	.6×0.8ı	mm)			
T max.	Rated Voltage	TC Code	Сар.	Tol.	Part Number
0.9mm	50Vdc	COG	8.2pF	±0.25pF	GQM1885C1H8R2CB01#
				±0.5pF	GQM1885C1H8R2DB01#
			9.0pF	±0.25pF	GQM1885C1H9R0CB01#
				±0.5pF	GQM1885C1H9R0DB01#
			9.1pF	±0.25pF	GQM1885C1H9R1CB01#
				±0.5pF	GQM1885C1H9R1DB01#
			10pF	±2%	GQM1885C1H100GB01#
				±5%	GQM1885C1H100JB01#
			11pF	±2%	GQM1885C1H110GB01#
				±5%	GQM1885C1H110JB01#
			12pF	±2%	GQM1885C1H120GB01#
				±5%	GQM1885C1H120JB01#
			13pF	±2%	GQM1885C1H130GB01#
				±5%	GQM1885C1H130JB01#
			15pF	±2%	GQM1885C1H150GB01#
				±5%	GQM1885C1H150JB01#
			16pF	±2%	GQM1885C1H160GB01#
				±5%	GQM1885C1H160JB01#
			18pF	±2%	GQM1885C1H180GB01#
				±5%	GQM1885C1H180JB01#
			20pF	±2%	GQM1885C1H200GB01#
				±5%	GQM1885C1H200JB01#
			22pF	±2%	GQM1885C1H220GB01#
				±5%	GQM1885C1H220JB01#
			24pF	±2%	GQM1885C1H240GB01#
				±5%	GQM1885C1H240JB01#
			27pF	±2%	GQM1885C1H270GB01#
				±5%	GQM1885C1H270JB01#
			30pF	±2%	GQM1885C1H300GB01#
				±5%	GQM1885C1H300JB01#
			33pF	±2%	GQM1885C1H330GB01#
				±5%	GQM1885C1H330JB01#
			36pF	±2%	GQM1885C1H360GB01#
				±5%	GQM1885C1H360JB01#
			39pF	±2%	GQM1885C1H390GB01#
				±5%	GQM1885C1H390JB01#
			43pF	±2%	GQM1885C1H430GB01#
			 -	±5%	GQM1885C1H430JB01#
			47pF	±2%	GQM1885C1H470GB01#
			F4 -	±5%	GQM1885C1H470JB01#
			51pF	±2%	GQM1885C1H510GB01#
			F0	±5%	GQM1885C1H510JB01#
			56pF	±2%	GQM1885C1H560GB01#
			60-5	±5%	GQM1885C1H560JB01#
			62pF	±2%	GQM1885C1H620GB01#
			68pF	±5% ±2%	GQM1885C1H620JB01# GQM1885C1H680GB01#
			σορι	±5%	GQM1885C1H680JB01#
			75pF	±2%	GQM1885C1H750GB01#
			, opi	±5%	GQM1885C1H750JB01#
			82pF	±2%	GQM1885C1H820GB01#
			υζμι	±5%	GQM1885C1H820JB01#
			91pF	±2%	GQM1885C1H910GB01#
			~ 'P'	±5%	GQM1885C1H910JB01#

Total						_
#5% GQM1882C1H101JB01# #0.5pF GQM1882C1H7R0CB01# #0.5pF GQM1882C1H7R0CB01# #0.5pF GQM1882C1H7R5CB01# #0.5pF GQM1882C1H7R5CB01# #0.5pF GQM1882C1H7R5CB01# #0.5pF GQM1882C1H8R0CB01# #0.5pF GQM1882C1H8R0CB01# #0.5pF GQM1882C1H8R0CB01# #0.5pF GQM1882C1H8R0CB01# #0.5pF GQM1882C1H9R0CB01# #0.5pF GQM1882C1H9R0CB01# #0.5pF GQM1882C1H9R0CB01# #0.5pF GQM1882C1H9R0CB01# #0.5pF GQM1882C1H9R0CB01# #0.5pF GQM1882C1H9R0CB01# #0.5pF GQM1882C1H9R1CB01# #0.5pF GQM1882C1H100GB01# #0.5pF GQM1882C1H100GB01# #5% GQM1882C1H100JB01# #1pF ±2% GQM1882C1H100GB01# #5% GQM1882C1H10JB01# #5% GQM1882C1H20JB01# #5% GQM182C1H20JB01# #5% GQM182C1H30OJB01#			Сар.	Tol.	Part Number	
CH 7.0pF ±0.25pF GQM1882C1H7R0CB01# ±0.5pF GQM1882C1H7R5CB01# ±0.5pF GQM1882C1H7R5DB01# 8.0pF ±0.25pF GQM1882C1H8R0CB01# ±0.5pF GQM1882C1H8R0CB01# ±0.5pF GQM1882C1H8R0CB01# ±0.5pF GQM1882C1H8R0CB01# ±0.5pF GQM1882C1H8R0CB01# ±0.5pF GQM1882C1H8R0CB01# ±0.5pF GQM1882C1H9R0CB01# ±0.5pF GQM1882C1H9R0CB01# ±0.5pF GQM1882C1H9R0CB01# ±0.5pF GQM1882C1H9R0CB01# ±0.5pF GQM1882C1H9R1DB01# ±0.5pF GQM1882C1H9R1DB01# ±0.5pF GQM1882C1H100GB01# ±5% GQM1882C1H100GB01# ±5% GQM1882C1H100GB01# ±5% GQM1882C1H100GB01# ±5% GQM1882C1H100GB01# ±5% GQM1882C1H100GB01# ±5% GQM1882C1H100GB01# ±5% GQM1882C1H100GB01# ±5% GQM1882C1H130JB01# ±5% GQM1882C1H130JB01# ±5% GQM1882C1H130JB01# ±5% GQM1882C1H130JB01# ±5% GQM1882C1H150GB01# ±5% GQM1882C1H150GB01# ±5% GQM1882C1H150JB01# ±5% GQM1882C1H180JB01# ±5% GQM1882C1H180JB01# ±5% GQM1882C1H200JB01# ±5% GQM1882C1H300JB01# ±5% GQM182C1H300JB01# 50Vdc	C0G	100pF	±2%	GQM1885C1H101GB01#		
#0.5pF GQM1882C1H7R0DB01# #0.5pF dQM1882C1H7R5CB01# #0.5pF GQM1882C1HRR0CB01# #0.5pF GQM1882C1H10GB01# #0.5pF GQM1882C1H13GGB01# #0.5pF GQM1882C1H13GGB01# #0.5pF GQM1882C1H15GGB01# #0.5pF GQM1882C1H15GGB01# #0.5pF GQM1882C1H16GJB01# #0.5pF GQM1882C1H16GJB01# #0.5pF GQM1882C1H16GJB01# #0.5pF GQM1882C1H16GJB01# #0.5pF GQM1882C1H16GJB01# #0.5pF GQM1882C1H2GGB01# #0.5pF GQM1882C1H3GGB01# #0.5pF GQM1882C1H3GGB				±5%	GQM1885C1H101JB01#	
7.5pF ±0.25pF GQM1882C1H7R5CB01# ±0.5pF GQM1882C1H8R0CB01# ±0.5pF GQM1882C1H8R0CB01# ±0.5pF GQM1882C1H8R2CB01# ±0.5pF GQM1882C1H8R2CB01# ±0.5pF GQM1882C1H8R2CB01# ±0.5pF GQM1882C1H9R0CB01# ±0.5pF GQM1882C1H9R0CB01# ±0.5pF GQM1882C1H9R1CB01# ±0.5pF GQM1882C1H9R1CB01# ±0.5pF GQM1882C1H9R1CB01# ±0.5pF GQM1882C1H9R1CB01# ±5% GQM1882C1H100GB01# ±5% GQM1882C1H100GB01# ±5% GQM1882C1H110GB01# ±5% GQM1882C1H110GB01# ±5% GQM1882C1H110GB01# ±5% GQM1882C1H110GB01# ±5% GQM1882C1H130JB01# ±5% GQM1882C1H130JB01# ±5% GQM1882C1H130JB01# ±5% GQM1882C1H130JB01# ±5% GQM1882C1H150JB01# ±2% GQM1882C1H150JB01# ±5% GQM1882C1H150JB01# ±5% GQM1882C1H180JB01# ±5% GQM1882C1H180JB01# ±5% GQM1882C1H180JB01# ±5% GQM1882C1H180JB01# ±5% GQM1882C1H200JB01# ±5% GQM1882C1H200JB01# ±5% GQM1882C1H200JB01# ±5% GQM1882C1H200JB01# ±5% GQM1882C1H200JB01# ±5% GQM1882C1H20JB01# ±5% GQM1882C1H30JB01# ±5% GQM1882		CH	7.0pF	±0.25pF	GQM1882C1H7R0CB01#	
#0.5pF GQM1882C1H7R5DB01# #0.5pF GQM1882C1H8R0CB01# #0.5pF GQM1882C1H8R0CB01# #0.5pF GQM1882C1H8R0CB01# #0.5pF GQM1882C1H8R0CB01# #0.5pF GQM1882C1H8R0CB01# #0.5pF GQM1882C1H9R0CB01# #0.5pF GQM1882C1H9R0CB01# #0.5pF GQM1882C1H9R0CB01# #0.5pF GQM1882C1H9R0CB01# #0.5pF GQM1882C1H9R1CB01# #0.5pF GQM1882C1H9R1CB01# #0.5pF GQM1882C1H10GB01# #5% GQM1882C1H10GB01# #5% GQM1882C1H10GB01# #5% GQM1882C1H10GB01# #5% GQM1882C1H10GB01# #5% GQM1882C1H10GB01# #5% GQM1882C1H10GB01# #5% GQM1882C1H10GB01# #5% GQM1882C1H10GB01# #5% GQM1882C1H10GB01# #5% GQM1882C1H10GB01# #5% GQM1882C1H150GB01# #5% GQM1882C1H150GB01# #5% GQM1882C1H150GB01# #5% GQM1882C1H160GB01# #5% GQM1882C1H160GB01# #5% GQM1882C1H160GB01# #5% GQM1882C1H180JB01# #5% GQM1882C1H180JB01# #5% GQM1882C1H20GB01# #5% GQM1882C1H20JB01# #5% GQM1882C1H20JB01# #5% GQM1882C1H20JB01# #5% GQM1882C1H20GB01# #5% GQM1882C1H20JB01# #5% GQM1882C1H20JB01# #5% GQM1882C1H20JB01# #5% GQM1882C1H20JB01# #5% GQM1882C1H30JB01# #5% GQM				±0.5pF	GQM1882C1H7R0DB01#	
8.0pF ±0.25pF GQM1882C1H8R0CB01# ±0.5pF GQM1882C1H8R0CB01# ±0.5pF GQM1882C1H8R2CB01# ±0.5pF GQM1882C1H8R2CB01# ±0.5pF GQM1882C1H9R0CB01# ±0.5pF GQM1882C1H9R0CB01# ±0.5pF GQM1882C1H9R1CB01# ±0.5pF GQM1882C1H9R1CB01# ±0.5pF GQM1882C1H9R1CB01# ±0.5pF GQM1882C1H9R1CB01# ±5% GQM1882C1H100GB01# ±5% GQM1882C1H100GB01# ±5% GQM1882C1H110GB01# ±5% GQM1882C1H110GB01# ±5% GQM1882C1H10GB01# ±5% GQM1882C1H16GGB01# ±5% GQM1882C1H16GGB01# ±5% GQM1882C1H16GGB01# ±5% GQM1882C1H10GB01# ±5% GQM1882C1H10GB01# ±5% GQM1882C1H10GB01# ±5% GQM1882C1H10GB01# ±5% GQM1882C1H2GGB01# ±5% GQM1882C1H2GGB01# ±5% GQM1882C1H2QGB01# ±5% GQM1882C1H2QGB01# ±5% GQM1882C1H2QGB01# ±5% GQM1882C1H2QGB01# ±5% GQM1882C1H2GGB01# ±5% GQM1882C1H2GGB01# ±5% GQM1882C1H2GGB01# ±5% GQM1882C1H2GGB01# ±5% GQM1882C1H2GGB01# ±5% GQM1882C1H3GGB01# ±5% GQM1882C1H3GGGB01# ±5% GQM1882C1H3GGGB01# ±5% GQM188			7.5pF	<u> </u>		
# ±0.5pF GQM1882C1H8RQDB01# ±0.5pF GQM1882C1H8R2CB01# ±0.5pF GQM1882C1H9RQCB01# ±0.5pF GQM1882C1H9RQCB01# ±0.5pF GQM1882C1H9R1CB01# ±0.5pF GQM1882C1H9R1CB01# ±0.5pF GQM1882C1H9R1CB01# ±0.5pF GQM1882C1H9R1CB01# ±5% GQM1882C1H100GB01# ±5% GQM1882C1H10JB01# ±5% GQM1882C1H10JB01# ±5% GQM1882C1H10JB01# ±5% GQM1882C1H10JB01# ±5% GQM1882C1H10JB01# ±5% GQM1882C1H10JB01# ±5% GQM1882C1H130JB01# ±5% GQM1882C1H130JB01# ±5% GQM1882C1H150JB01# ±5% GQM1882C1H150JB01# ±5% GQM1882C1H160JB01# ±5% GQM1882C1H160JB01# ±5% GQM1882C1H180JB01# ±5% GQM1882C1H180JB01# ±5% GQM1882C1H180JB01# ±5% GQM1882C1H180JB01# ±5% GQM1882C1H200GB01# ±5% GQM1882C1H200GB01# ±5% GQM1882C1H20JB01# ±5% GQM1882C1H20JB01# ±5% GQM1882C1H20JB01# ±5% GQM1882C1H20JB01# ±5% GQM1882C1H20JB01# ±5% GQM1882C1H240JB01# ±5% GQM1882C1H240JB01# ±5% GQM1882C1H240JB01# ±5% GQM1882C1H240JB01# ±5% GQM1882C1H300JB01# ±5% GQM1882C1H300JB01# ±5% GQM1882C1H300JB01# ±5% GQM1882C1H30JB01# ±5% GQM1882C1H300JB01# ±5% G				· '		
## 10.25pF GQM1882C1H8R2CB01# ±0.5pF GQM1882C1H9R0CB01# ±0.5pF GQM1882C1H9R0CB01# ±0.5pF GQM1882C1H9R0CB01# ±0.5pF GQM1882C1H9R1CB01# ±0.5pF GQM1882C1H9R1CB01# ±0.5pF GQM1882C1H9R1CB01# ±0.5pF GQM1882C1H10GB01# ±5% GQM1882C1H10GB01# ±5% GQM1882C1H10GB01# ±5% GQM1882C1H110GB01# ±5% GQM1882C1H110GB01# ±5% GQM1882C1H110GB01# ±5% GQM1882C1H130GB01# ±5% GQM1882C1H130GB01# ±5% GQM1882C1H130GB01# ±5% GQM1882C1H150GB01# ±5% GQM1882C1H150GB01# ±5% GQM1882C1H150GB01# ±5% GQM1882C1H160GB01# ±5% GQM1882C1H160GB01# ±5% GQM1882C1H180GB01# ±5% GQM1882C1H180GB01# ±5% GQM1882C1H200GB01# ±5% GQM1882C1H200GB01# ±5% GQM1882C1H20GB01# ±5% GQM1882C1H300GB01# ±5% GQM1882C1H30GB01# ±5% GQM1882C1H30G			8.0pF	<u> </u>		
#0.5pF GQM1882C1H8R2DB01# #0.5pF GQM1882C1H9R0CB01# #0.5pF GQM1882C1H9R1DB01# #0.5pF GQM1882C1H9R1DB01# #0.5pF GQM1882C1H9R1DB01# #0.5pF GQM1882C1H100GB01# #5% GQM1882C1H110GB01# #5% GQM1882C1H110GB01# #5% GQM1882C1H110GB01# #5% GQM1882C1H110GB01# #5% GQM1882C1H110GB01# #5% GQM1882C1H110GB01# #5% GQM1882C1H130GB01# #5% GQM1882C1H130GB01# #5% GQM1882C1H130GB01# #5% GQM1882C1H150GB01# #5% GQM1882C1H150GB01# #5% GQM1882C1H150GB01# #5% GQM1882C1H150GB01# #5% GQM1882C1H160GB01# #5% GQM1882C1H160GB01# #5% GQM1882C1H160GB01# #5% GQM1882C1H180GB01# #5% GQM1882C1H180GB01# #5% GQM1882C1H200GB01# #5% GQM1882C1H300GB01# #5% GQM1882C1H30GB01#						
9.0pF ±0.25pF GQM1882C1H9R0CB01# ±0.5pF GQM1882C1H9R0DB01# ±0.5pF GQM1882C1H9R1DB01# ±0.5pF GQM1882C1H9R1DB01# ±0.5pF GQM1882C1H100GB01# ±5% GQM1882C1H100GB01# ±5% GQM1882C1H10JB01# ±5% GQM1882C1H10JB01# ±5% GQM1882C1H10JB01# ±5% GQM1882C1H10JB01# ±5% GQM1882C1H10JB01# ±5% GQM1882C1H10JB01# ±5% GQM1882C1H130JB01# ±5% GQM1882C1H130JB01# ±5% GQM1882C1H150GB01# ±5% GQM1882C1H150GB01# ±5% GQM1882C1H160JB01# ±5% GQM1882C1H160JB01# ±5% GQM1882C1H160JB01# ±5% GQM1882C1H160JB01# ±5% GQM1882C1H160JB01# ±2% GQM1882C1H180JB01# ±2% GQM1882C1H180JB01# ±2% GQM1882C1H200GB01# ±5% GQM1882C1H200GB01# ±5% GQM1882C1H200GB01# ±5% GQM1882C1H200JB01# ±2% GQM1882C1H200JB01# ±5% GQM1882C1H200JB01# ±5% GQM1882C1H20JB01# ±5% GQM1882C1H20JB01# ±5% GQM1882C1H20JB01# ±5% GQM1882C1H20JB01# ±5% GQM1882C1H20JB01# ±5% GQM1882C1H30JB01# ±5% GQM1882C1H50JB01#			8.2pF	<u> </u>		
#0.5pF GQM1882C1H9R0DB01# #0.25pF GQM1882C1H9R1DB01# #0.5pF GQM1882C1H9R1DB01# #15% GQM1882C1H100GB01# #15% GQM1882C1H100GB01# #15% GQM1882C1H100GB01# #15% GQM1882C1H10JB01# #15% GQM1882C1H10JB01# #15% GQM1882C1H10JB01# #15% GQM1882C1H10JB01# #15% GQM1882C1H10JB01# #15% GQM1882C1H130JB01# #15% GQM1882C1H130JB01# #15% GQM1882C1H150JB01# #15% GQM1882C1H150JB01# #15% GQM1882C1H150JB01# #15% GQM1882C1H160JB01# #15% GQM1882C1H180JB01# #15% GQM1882C1H180JB01# #15% GQM1882C1H180JB01# #15% GQM1882C1H180JB01# #15% GQM1882C1H200JB01# #15% GQM1882C1H200JB01# #15% GQM1882C1H20JB01# #15% GQM1882C1H30JB01# #15% GQM1882C1H50JB01#						
9.1pF ±0.25pF GQM1882C1H9R1CB01# ±0.5pF GQM1882C1H100GB01# ±5% GQM1882C1H100JB01# ±5% GQM1882C1H110JB01# ±5% GQM1882C1H110JB01# ±5% GQM1882C1H110JB01# ±5% GQM1882C1H120JB01# ±5% GQM1882C1H120JB01# ±5% GQM1882C1H130JB01# ±5% GQM1882C1H130JB01# ±5% GQM1882C1H130JB01# ±5% GQM1882C1H150JB01# ±5% GQM1882C1H150JB01# ±5% GQM1882C1H150JB01# ±5% GQM1882C1H150JB01# ±5% GQM1882C1H150JB01# ±5% GQM1882C1H180JB01# ±5% GQM1882C1H180JB01# ±5% GQM1882C1H200JB01# ±5% GQM1882C1H200JB01# ±5% GQM1882C1H200JB01# ±5% GQM1882C1H20JB01# ±5% GQM1882C1H200JB01# ±5% GQM1882C1H220JB01# ±5% GQM1882C1H220JB01# ±5% GQM1882C1H20JB01# ±5% GQM1882C1H20JB01# ±5% GQM1882C1H20JB01# ±5% GQM1882C1H20JB01# ±5% GQM1882C1H20JB01# ±5% GQM1882C1H20JB01# ±5% GQM1882C1H300JB01# ±5% GQM1882C1H300JB01# ±5% GQM1882C1H300JB01# ±5% GQM1882C1H30JB01# ±5% GQM1882C1H50JB01# ±5% GQM182C1H50JB01# ±5% GQM1882C1H50JB01#			9.0pF	<u>-</u>		
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10pF			9.1p⊦	<u> </u>		
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11pF ±2% GQM1882C1H110GB01# ±5% GQM1882C1H110JB01# 12pF ±2% GQM1882C1H120JB01# ±5% GQM1882C1H130JB01# ±5% GQM1882C1H130JB01# ±5% GQM1882C1H130JB01# ±5% GQM1882C1H150GB01# ±5% GQM1882C1H150JB01# ±5% GQM1882C1H150JB01# ±5% GQM1882C1H160JB01# ±5% GQM1882C1H160JB01# ±5% GQM1882C1H160JB01# ±5% GQM1882C1H180JB01# ±5% GQM1882C1H180JB01# ±5% GQM1882C1H200JB01# ±5% GQM1882C1H20JB01# ±5% GQM1882C1H300JB01# ±5% GQM1882C1H30JB01# ±5% GQM1882C1H40JB01# ±5% GQM1882C1H40JB01# ±5% GQM1882C1H40JB01# ±5% GQM1882C1H470JB01# ±5% GQM1882C1H470JB01# ±5% GQM1882C1H470JB01# ±5% GQM1882C1H470JB01# ±5% GQM1882C1H470JB01# ±5% GQM1882C1H510JB01# ±5% GQM1882C1H510JB01# ±5% GQM1882C1H510JB01# ±5% GQM1882C1H510JB01# ±5% GQM1882C1H510JB01# ±5% GQM1882C1H500JB01#			10pF			
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12pF ±2% GQM1882C1H120GB01# ±5% GQM1882C1H130JB01# ±5% GQM1882C1H130JB01# ±5% GQM1882C1H150GB01# ±5% GQM1882C1H150JB01# ±5% GQM1882C1H150JB01# ±5% GQM1882C1H150JB01# ±5% GQM1882C1H160GB01# ±5% GQM1882C1H160JB01# ±5% GQM1882C1H180JB01# ±5% GQM1882C1H180JB01# ±5% GQM1882C1H200JB01# ±5% GQM1882C1H200JB01# ±5% GQM1882C1H20JB01# ±5% GQM1882C1H220JB01# ±5% GQM1882C1H220JB01# ±5% GQM1882C1H240JB01# ±5% GQM1882C1H270JB01# ±5% GQM1882C1H270JB01# ±5% GQM1882C1H270JB01# ±5% GQM1882C1H300JB01# ±5% GQM1882C1H300JB01# ±5% GQM1882C1H300JB01# ±5% GQM1882C1H300JB01# ±5% GQM1882C1H30JB01# ±5% GQM1882C1H430JB01# ±5% GQM1882C1H430JB01# ±5% GQM1882C1H470GB01# ±5% GQM1882C1H510JB01# ±5% GQM1882C1H520JB01# ±5% G			11pF			
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13pF			12pF			_
### ### #### #### ####################			1055			
15pF ±2% GQM1882C1H150GB01# ±5% GQM1882C1H150JB01# 16pF ±2% GQM1882C1H160GB01# ±5% GQM1882C1H160JB01# ±5% GQM1882C1H180GB01# ±5% GQM1882C1H180JB01# ±5% GQM1882C1H200GB01# ±5% GQM1882C1H200GB01# ±5% GQM1882C1H200JB01# ±5% GQM1882C1H220GB01# ±5% GQM1882C1H220JB01# ±5% GQM1882C1H220JB01# ±5% GQM1882C1H240GB01# ±5% GQM1882C1H240JB01# ±5% GQM1882C1H270JB01# ±5% GQM1882C1H300JB01# ±5% GQM1882C1H300JB01# ±5% GQM1882C1H300JB01# ±5% GQM1882C1H300JB01# ±5% GQM1882C1H300JB01# ±5% GQM1882C1H30JB01# ±5% GQM1882C1H430GB01# ±5% GQM1882C1H430GB01# ±5% GQM1882C1H430GB01# ±5% GQM1882C1H430JB01# ±5% GQM1882C1H430JB01# ±5% GQM1882C1H430JB01# ±5% GQM1882C1H510JB01# ±5% GQM1882C1H560JB01#			тэрг			
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16pF ±2% GQM1882C1H160GB01# ±5% GQM1882C1H160JB01# ±5% GQM1882C1H180JB01# ±5% GQM1882C1H200GB01# ±5% GQM1882C1H200GB01# ±5% GQM1882C1H200GB01# ±5% GQM1882C1H20JB01# ±5% GQM1882C1H20JB01# ±5% GQM1882C1H20JB01# ±5% GQM1882C1H20JB01# ±5% GQM1882C1H240JB01# ±5% GQM1882C1H240JB01# ±5% GQM1882C1H270JB01# ±5% GQM1882C1H270JB01# ±5% GQM1882C1H300JB01# ±5% GQM1882C1H300JB01# ±5% GQM1882C1H300JB01# ±5% GQM1882C1H300JB01# ±5% GQM1882C1H300JB01# ±5% GQM1882C1H30JB01# ±5% GQM1882C1H30JB01# ±5% GQM1882C1H30JB01# ±5% GQM1882C1H360JB01# ±5% GQM1882C1H390JB01# ±5% GQM1882C1H390JB01# ±5% GQM1882C1H390JB01# ±5% GQM1882C1H430JB01# ±5% GQM1882C1H430JB01# ±5% GQM1882C1H470JB01# ±5% GQM1882C1H470JB01# ±5% GQM1882C1H510JB01# ±5% GQM1882C1H560JB01#			тэрг			_
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18pF ±2% GQM1882C1H180GB01# ±5% GQM1882C1H180JB01# 20pF ±2% GQM1882C1H200JB01# ±5% GQM1882C1H220JB01# ±5% GQM1882C1H220JB01# ±5% GQM1882C1H220JB01# ±5% GQM1882C1H220JB01# ±5% GQM1882C1H240JB01# ±5% GQM1882C1H270JB01# ±5% GQM1882C1H270JB01# ±5% GQM1882C1H270JB01# ±5% GQM1882C1H300JB01# ±5% GQM1882C1H390JB01# ±5% GQM1882C1H390JB01# ±5% GQM1882C1H390JB01# ±5% GQM1882C1H430JB01# ±5% GQM1882C1H430JB01# ±5% GQM1882C1H470JB01# ±5% GQM1882C1H470JB01# ±5% GQM1882C1H470JB01# ±5% GQM1882C1H510JB01# ±5% GQM1882C1H510JB01# ±5% GQM1882C1H510JB01# ±5% GQM1882C1H560JB01#			ТОРІ			
### ### ##############################			18nF			
20pF ±2% GQM1882C1H200GB01# ±5% GQM1882C1H220JB01# 22pF ±2% GQM1882C1H220JB01# ±5% GQM1882C1H220JB01# 24pF ±2% GQM1882C1H240JB01# ±5% GQM1882C1H240JB01# 27pF ±2% GQM1882C1H270GB01# ±5% GQM1882C1H270JB01# 30pF ±2% GQM1882C1H300GB01# ±5% GQM1882C1H300JB01# ±5% GQM1882C1H300JB01# 33pF ±2% GQM1882C1H330JB01# 36pF ±2% GQM1882C1H360JB01# ±5% GQM1882C1H360JB01# ±5% GQM1882C1H390GB01# ±5% GQM1882C1H390GB01# 45% GQM1882C1H390GB01# 55% GQM1882C1H390GB01# 55% GQM1882C1H390JB01# 55% GQM1882C1H430JB01# 55% GQM1882C1H430GB01# 55% GQM1882C1H430JB01# 55% GQM1882C1H470JB01# 55% GQM1882C1H510JB01# 55% GQM1882C1H510JB01# 55% GQM1882C1H510JB01# 55% GQM1882C1H510JB01# 55% GQM1882C1H560JB01# 55% GQM1882C1H560JB01#			ТОРІ			
### ### ##############################			20pF			
22pF ±2% GQM1882C1H220GB01# ±5% GQM1882C1H220JB01# 24pF ±2% GQM1882C1H240GB01# ±5% GQM1882C1H240JB01# 27pF ±2% GQM1882C1H270GB01# ±5% GQM1882C1H270JB01# 30pF ±2% GQM1882C1H300GB01# ±5% GQM1882C1H300JB01# 33pF ±2% GQM1882C1H330GB01# ±5% GQM1882C1H330JB01# 36pF ±2% GQM1882C1H360GB01# ±5% GQM1882C1H360GB01# ±5% GQM1882C1H360JB01# 43pF ±2% GQM1882C1H390JB01# 43pF ±2% GQM1882C1H390JB01# 44pF ±2% GQM1882C1H390JB01# 55% GQM1882C1H430JB01# 55% GQM1882C1H470GB01# ±5% GQM1882C1H470JB01# 55pF ±2% GQM1882C1H510JB01# 55pF ±2% GQM1882C1H510JB01# 55pF ±2% GQM1882C1H560GB01# 55% GQM1882C1H560JB01#			_00.			
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30pF ±2% GQM1882C1H300GB01# ±5% GQM1882C1H300JB01# 33pF ±2% GQM1882C1H330GB01# ±5% GQM1882C1H330JB01# 36pF ±2% GQM1882C1H360GB01# ±5% GQM1882C1H360JB01# 39pF ±2% GQM1882C1H390GB01# ±5% GQM1882C1H390JB01# 43pF ±2% GQM1882C1H430GB01# ±5% GQM1882C1H430JB01# 47pF ±2% GQM1882C1H470JB01# 55% GQM1882C1H470JB01# 55% GQM1882C1H510GB01# ±5% GQM1882C1H510JB01# 56pF ±2% GQM1882C1H560GB01# 56pF ±2% GQM1882C1H560JB01#			27pF	±2%	GQM1882C1H270GB01#	
### ### ##############################				±5%	GQM1882C1H270JB01#	
33pF ±2% GQM1882C1H330GB01# ±5% GQM1882C1H330JB01# 36pF ±2% GQM1882C1H360GB01# ±5% GQM1882C1H360JB01# 39pF ±2% GQM1882C1H390JB01# ±5% GQM1882C1H390JB01# 43pF ±2% GQM1882C1H430GB01# ±5% GQM1882C1H430JB01# 47pF ±2% GQM1882C1H470GB01# ±5% GQM1882C1H470JB01# 51pF ±2% GQM1882C1H510JB01# 56pF ±2% GQM1882C1H560JB01# 56pF ±2% GQM1882C1H560JB01#			30pF	±2%	GQM1882C1H300GB01#	
#5% GQM1882C1H330JB01# #5% GQM1882C1H360GB01# #5% GQM1882C1H360JB01# #5% GQM1882C1H390GB01# #5% GQM1882C1H390JB01# #5% GQM1882C1H390JB01# #5% GQM1882C1H430JB01# #5% GQM1882C1H470GB01# #5% GQM1882C1H470JB01# #5% GQM1882C1H510JB01# #5% GQM1882C1H510JB01# #5% GQM1882C1H510JB01# #5% GQM1882C1H560JB01# #5% GQM1882C1H560JB01# #5% GQM1882C1H560JB01# #5% GQM1882C1H560JB01#				±5%	GQM1882C1H300JB01#	
36pF ±2% GQM1882C1H360GB01# ±5% GQM1882C1H360JB01# 39pF ±2% GQM1882C1H390GB01# ±5% GQM1882C1H390JB01# 43pF ±2% GQM1882C1H430GB01# ±5% GQM1882C1H430JB01# 47pF ±2% GQM1882C1H470GB01# ±5% GQM1882C1H470JB01# 51pF ±2% GQM1882C1H510GB01# ±5% GQM1882C1H510JB01# 56pF ±2% GQM1882C1H560GB01# ±5% GQM1882C1H560JB01#			33pF	±2%	GQM1882C1H330GB01#	
±5% GQM1882C1H360JB01# ±5% GQM1882C1H390GB01# ±5% GQM1882C1H390JB01# 43pF ±2% GQM1882C1H430GB01# ±5% GQM1882C1H430JB01# 47pF ±2% GQM1882C1H470GB01# ±5% GQM1882C1H470JB01# 51pF ±2% GQM1882C1H510GB01# ±5% GQM1882C1H510JB01# 56pF ±2% GQM1882C1H560GB01# ±5% GQM1882C1H560GB01# 62pF ±2% GQM1882C1H620GB01#				±5%	GQM1882C1H330JB01#	
39pF ±2% GQM1882C1H390GB01# ±5% GQM1882C1H390JB01# 43pF ±2% GQM1882C1H430GB01# ±5% GQM1882C1H430JB01# 47pF ±2% GQM1882C1H470GB01# ±5% GQM1882C1H470JB01# 51pF ±2% GQM1882C1H510GB01# ±5% GQM1882C1H510JB01# 56pF ±2% GQM1882C1H560JB01# ±5% GQM1882C1H560JB01# ±5% GQM1882C1H560JB01# 45% GQM1882C1H560JB01#			36pF	±2%	GQM1882C1H360GB01#	
±5% GQM1882C1H390JB01# 43pF ±2% GQM1882C1H430GB01# ±5% GQM1882C1H430JB01# 47pF ±2% GQM1882C1H470GB01# ±5% GQM1882C1H470JB01# 51pF ±2% GQM1882C1H510GB01# ±5% GQM1882C1H510JB01# 56pF ±2% GQM1882C1H560GB01# ±5% GQM1882C1H560JB01#				±5%	GQM1882C1H360JB01#	
43pF ±2% GQM1882C1H430GB01# ±5% GQM1882C1H430JB01# 47pF ±2% GQM1882C1H470GB01# ±5% GQM1882C1H470JB01# 51pF ±2% GQM1882C1H510GB01# ±5% GQM1882C1H510JB01# 56pF ±2% GQM1882C1H560GB01# ±5% GQM1882C1H560JB01# 62pF ±2% GQM1882C1H620GB01#			39pF	±2%	GQM1882C1H390GB01#	
±5% GQM1882C1H430JB01# 47pF ±2% GQM1882C1H470GB01# ±5% GQM1882C1H470JB01# 51pF ±2% GQM1882C1H510GB01# ±5% GQM1882C1H510JB01# 56pF ±2% GQM1882C1H560GB01# ±5% GQM1882C1H560JB01# 62pF ±2% GQM1882C1H620GB01#				±5%	GQM1882C1H390JB01#	
47pF ±2% GQM1882C1H470GB01# ±5% GQM1882C1H470JB01# 51pF ±2% GQM1882C1H510GB01# ±5% GQM1882C1H510JB01# 56pF ±2% GQM1882C1H560GB01# ±5% GQM1882C1H560JB01# 62pF ±2% GQM1882C1H620GB01#			43pF	±2%	GQM1882C1H430GB01#	
±5% GQM1882C1H470JB01# 51pF ±2% GQM1882C1H510GB01# ±5% GQM1882C1H510JB01# 56pF ±2% GQM1882C1H560GB01# ±5% GQM1882C1H560JB01# 62pF ±2% GQM1882C1H620GB01#				±5%	GQM1882C1H430JB01#	
51pF ±2% GQM1882C1H510GB01# ±5% GQM1882C1H510JB01# 56pF ±2% GQM1882C1H560GB01# ±5% GQM1882C1H560JB01# 62pF ±2% GQM1882C1H620GB01#			47pF	±2%	GQM1882C1H470GB01#	
±5% GQM1882C1H510JB01# 56pF ±2% GQM1882C1H560GB01# ±5% GQM1882C1H560JB01# 62pF ±2% GQM1882C1H620GB01#				±5%	GQM1882C1H470JB01#	
56pF ±2% GQM1882C1H560GB01# ±5% GQM1882C1H560JB01# 62pF ±2% GQM1882C1H620GB01#			51pF	±2%	GQM1882C1H510GB01#	
±5% GQM1882C1H560JB01# 62pF ±2% GQM1882C1H620GB01#				±5%	GQM1882C1H510JB01#	
62pF ±2% GQM1882C1H620GB01#			56pF	±2%	GQM1882C1H560GB01#	
				±5%	GQM1882C1H560JB01#	
±5% GQM1882C1H620JB01#			62pF	±2%	GQM1882C1H620GB01#	
				±5%	GQM1882C1H620JB01#	



(→ **■** 1.6×0.8mm)

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number
0.9mm	50Vdc	СН	68pF	±2%	GQM1882C1H680GB01#
				±5%	GQM1882C1H680JB01#
			75pF	±2%	GQM1882C1H750GB01#
				±5%	GQM1882C1H750JB01#
			82pF	±2%	GQM1882C1H820GB01#
				±5%	GQM1882C1H820JB01#
			91pF	±2%	GQM1882C1H910GB01#
				±5%	GQM1882C1H910JB01#
			100pF	±2%	GQM1882C1H101GB01#
				±5%	GQM1882C1H101JB01#

-	Detect	то.			
T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number
).95mm	100Vdc	COG	0.5pF	±0.1pF	GQM2195C2AR50BB01#
				±0.25pF	GQM2195C2AR50CB01#
			0.75pF	±0.1pF	GQM2195C2AR75BB01#
				±0.25pF	GQM2195C2AR75CB01#
			1.0pF	±0.1pF	GQM2195C2A1R0BB01#
				±0.25pF	GQM2195C2A1R0CB01#
			1.1pF	±0.1pF	GQM2195C2A1R1BB01#
				±0.25pF	GQM2195C2A1R1CB01#
			1.2pF	±0.1pF	GQM2195C2A1R2BB01#
				±0.25pF	GQM2195C2A1R2CB01#
			1.3pF	±0.1pF	GQM2195C2A1R3BB01#
				±0.25pF	GQM2195C2A1R3CB01#
			1.5pF	±0.1pF	GQM2195C2A1R5BB01#
				±0.25pF	GQM2195C2A1R5CB01#
			1.6pF	±0.1pF	GQM2195C2A1R6BB01#
				±0.25pF	GQM2195C2A1R6CB01#
			1.8pF	±0.1pF	GQM2195C2A1R8BB01#
				±0.25pF	GQM2195C2A1R8CB01#
			2.0pF	±0.1pF	GQM2195C2A2R0BB01#
				±0.25pF	GQM2195C2A2R0CB01#
			2.2pF	±0.1pF	GQM2195C2A2R2BB01#
				±0.25pF	GQM2195C2A2R2CB01#
			2.4pF	±0.1pF	GQM2195C2A2R4BB01#
				±0.25pF	GQM2195C2A2R4CB01#
			2.7pF	±0.1pF	GQM2195C2A2R7BB01#
				±0.25pF	GQM2195C2A2R7CB01#
			3.0pF	±0.1pF	GQM2195C2A3R0BB01#
				±0.25pF	GQM2195C2A3R0CB01#
			3.3pF	±0.1pF	GQM2195C2A3R3BB01#
				±0.25pF	GQM2195C2A3R3CB01#
			3.6pF	±0.1pF	GQM2195C2A3R6BB01#
				±0.25pF	GQM2195C2A3R6CB01#
			3.9pF	±0.1pF	GQM2195C2A3R9BB01#
				±0.25pF	GQM2195C2A3R9CB01#
			4.0pF	±0.1pF	GQM2195C2A4R0BB01#
				±0.25pF	GQM2195C2A4R0CB01#
			4.3pF	±0.1pF	GQM2195C2A4R3BB01#
			•	±0.25pF	GQM2195C2A4R3CB01#
			4.7pF	±0.1pF	GQM2195C2A4R7BB01#

100Vdc COG 4.7pF	T	Rated	TC	Cap.	Tol.	Part Number
5.0pF	max.					
#0.25pF GOM2195C2A5R0CB01# #0.5pF #0.25pF GOM2195C2A5R1CB01# #0.5pF #0.25pF GOM2195C2A5R0CB01# #0.5pF GOM2195C2A5R0CB01# #0.5pF GOM2195C2A6R0CB01# #0.5pF GOM2195C2A7R0CB01# #0.5pF GOM2195C2A7R0CB01# #0.5pF GOM2195C2A7R0CB01# #0.5pF GOM2195C2A7R0CB01# #0.5pF GOM2195C2A8R0CB01# #0.5pF GOM2195C2A9R0CB01# #0.5pF GOM2195C2A100B01# #10.5pF GOM2195C2A100B01# #10.5pF GOM2195C2A110B01# #10.5pF GOM2195C2A110B01# #10.5pF GOM2195C2A110B01# #10.5pF GOM2195C2A110B01# #10.5pF GOM2195C2A110B01# #10.5pF #0.25pF GOM2195C2A10B0B01# #10.5pF GOM2195C2A110B01# #10.5pF #0.25pF GOM2195C2A10B0B01# #10.5pF #0.1pF GOM2195C2A160B01# #10.5pF #0.1pF GOM2195C2A160B01# #10.25pF GOM2195C2A180B01# #10.25pF GOM2195C2A180B01# #10.25pF GOM2195C2A180B01# #10.25pF GOM2194C2A1R0B01# #10.25pF GOM2194C2A1R0B01# #10.25pF GOM2194C2A1R0B01# #10.25pF GOM2194C2A1R0B01# #10.25pF GOM2194C2A1R0B01# #10.25pF GOM2194C2A1R0B01# #10.25pF GOM2194C2A1R1CB01#	95mm	100Vdc	COG		-	GQM2195C2A4R7CB01#
5.1pF				5.0pF		
#0.5pF GQM2195C2A5R1DB01# #0.5pF GQM2195C2A5R6CB01# #0.5pF GQM2195C2A5R6CB01# #0.5pF GQM2195C2A6R0CB01# #0.5pF GQM2195C2A6R0CB01# #0.5pF GQM2195C2A6R0CB01# #0.5pF GQM2195C2A6R2CB01# #0.5pF GQM2195C2A6R2CB01# #0.5pF GQM2195C2A6R8CB01# #0.5pF GQM2195C2A6R8CB01# #0.5pF GQM2195C2A6R8CB01# #0.5pF GQM2195C2A6R8CB01# #0.5pF GQM2195C2A6R8CB01# #0.5pF GQM2195C2A7R0CB01# #0.5pF GQM2195C2A7R0CB01# #0.5pF GQM2195C2A7R5CB01# #0.5pF GQM2195C2A7R5CB01# #0.5pF GQM2195C2A8R0CB01# #0.5pF GQM2195C2A8R0CB01# #0.5pF GQM2195C2A8R0CB01# #0.5pF GQM2195C2A8R0CB01# #0.5pF GQM2195C2A8R0CB01# #0.5pF GQM2195C2A8R0CB01# #0.5pF GQM2195C2A9R0CB01# #0.5pF GQM2195C2A9R0CB01# #0.5pF GQM2195C2A9R0CB01# #0.5pF GQM2195C2A9R0CB01# #0.5pF GQM2195C2A9R0CB01# #0.5pF GQM2195C2A9R0CB01# #0.5pF GQM2195C2A10JB01# #0.25pF GQM2195C2A10JB01# #0.25pF GQM2195C2A10JB01# #0.25pF GQM2195C2A10JB01# #0.25pF GQM2195C2A10JB01# #0.25pF GQM2195C2A10JB01# #0.25pF GQM2194C2AR50B01# #0.25pF GQM2194C2AR50B01# #0.25pF GQM2194C2AR50B01# #0.25pF GQM2194C2AR18B01# #0.25pF GQM2194C2AR18B01# #0.25pF GQM2194C2A1R1BB01# #0.25pF GQM2194C2A1R1BB01# #0.25pF GQM2194C2A1R2CB01# #0.25pF GQM2194C2A1R2CB01# #0.25pF GQM2194C2A1R3BB01# #0.25pF GQM2194C2A1R3CB01#					-	
5.6pF				5.1pF	±0.25pF	GQM2195C2A5R1CB01#
#0.5pF GQM2195C2A5R6DB01# #0.25pF GQM2195C2A6R0CB01# #0.5pF GQM2195C2A6R0CB01# #0.5pF GQM2195C2A6R2CB01# #0.5pF GQM2195C2A6R2CB01# #0.5pF GQM2195C2A6R8CB01# #0.5pF GQM2195C2A6R8CB01# #0.5pF GQM2195C2A7R0CB01# #0.5pF GQM2195C2A8R0CB01# #0.5pF GQM2195C2A8R0CB01# #0.5pF GQM2195C2A8R0CB01# #0.5pF GQM2195C2A8R0CB01# #0.5pF GQM2195C2A8R0CB01# #0.5pF GQM2195C2A9R0CB01# #0.5pF GQM2195C2A9R0CB01# #0.5pF GQM2195C2A9R0CB01# #0.5pF GQM2195C2A10GB01# #0.25pF GQM2195C2A10GB01# #0.25pF GQM2195C2A10GB01# #0.25pF GQM2194C2AR50B01# #0.25pF GQM2194C2AR50B01# #0.25pF GQM2194C2AR50B01# #0.25pF GQM2194C2AR75BB01# #0.25pF GQM2194C2AR16BB01# #0.25pF GQM2194C2AR16BB01# #0.25pF GQM2194C2AR16BB01# #0.25pF GQM2194C2AR16BB01# #0.25pF GQM2194C2AR16BB01# #0.25pF GQM2194C2AR18BB01# #0.25pF GQM2194C2AR16BB01# #0.25pF GQM2194C2AR18BB01#					±0.5pF	GQM2195C2A5R1DB01#
6.0pF ±0.25pF GQM2195C2A6R0CB01# ±0.5pF GQM2195C2A6R0B01# ±0.5pF GQM2195C2A6R2CB01# ±0.5pF GQM2195C2A6R2CB01# ±0.5pF GQM2195C2A6R8CB01# ±0.5pF GQM2195C2A7R0CB01# ±0.5pF GQM2195C2A8R0CB01# ±0.5pF GQM2195C2A8R0CB01# ±0.5pF GQM2195C2A8R0CB01# ±0.5pF GQM2195C2A8R0CB01# ±0.5pF GQM2195C2A8R0CB01# ±0.5pF GQM2195C2A8R0CB01# ±0.5pF GQM2195C2A9R0CB01# ±0.5pF GQM2195C2A9R0CB01# ±0.5pF GQM2195C2A10GB01# ±50.5pF GQM2195C2A10GB01# ±5% GQM2195C2A10JB01# 11pF ±22% GQM2195C2A10JB01# 12pF ±22% GQM2195C2A10JB01# ±5% GQM2195C2A10JB01# ±5% GQM2195C2A10JB01# ±5% GQM2195C2A10JB01# ±5% GQM2195C2A10JB01# ±5% GQM2195C2A150JB01# ±5% GQM2195C2A150JB01# ±5% GQM2195C2A150JB01# ±5% GQM2195C2A150JB01# ±5% GQM2195C2A160JB01# ±5% GQM2195C2A180JB01# ±0.25pF GQM2194C2AR50BB01# ±0.25pF GQM2194C2AR50BB01# ±0.25pF GQM2194C2AR75BB01# ±0.25pF GQM2194C2AR75BB01# ±0.25pF GQM2194C2AR18BB01#				5.6pF	±0.25pF	GQM2195C2A5R6CB01#
#0.5pF GQM2195C2A6R0DB01# #0.2pF #0.25pF GQM2195C2A6R2CB01# #0.5pF GQM2195C2A6R2CB01# #0.5pF GQM2195C2A6R8CB01# #0.5pF GQM2195C2A6R8CB01# #0.5pF GQM2195C2A7R0CB01# #0.5pF GQM2195C2A7R0CB01# #0.5pF GQM2195C2A7R0CB01# #0.5pF GQM2195C2A7R5CB01# #0.5pF GQM2195C2A7R5CB01# #0.5pF GQM2195C2A8R0CB01# #0.5pF GQM2195C2A8R0CB01# #0.5pF GQM2195C2A8R0CB01# #0.5pF GQM2195C2A8R2CB01# #0.5pF GQM2195C2A8R2CB01# #0.5pF GQM2195C2A8R2CB01# #0.5pF GQM2195C2A8R2CB01# #0.5pF GQM2195C2A8R2CB01# #0.5pF GQM2195C2A8R2CB01# #0.5pF GQM2195C2A9R0CB01# #0.5pF GQM2195C2A9R0CB01# #0.5pF GQM2195C2A9R0CB01# #0.5pF GQM2195C2A9R0CB01# #0.5pF GQM2195C2A10GB01# #0.5pF GQM2195C2A160GB01# #0.25pF GQM2195C2A160B01# #0.25pF GQM2195C2A180B01# #0.25pF GQM2194C2A180BB01# #0.25pF GQM2194C2A180BB01# #0.25pF GQM2194C2A1R0CB01# #0.25pF GQM2194C2A1R0CB01# #0.25pF GQM2194C2A1R0CB01# #0.25pF GQM2194C2A1R0CB01# #0.25pF GQM2194C2A1R0BB01#					±0.5pF	GQM2195C2A5R6DB01#
6.2pF ±0.25pF GQM2195C2A6R2CB01# ±0.5pF GQM2195C2A6R2CB01# ±0.5pF GQM2195C2A6R8CB01# ±0.5pF GQM2195C2A7R0CB01# ±0.5pF GQM2195C2A7R0CB01# ±0.5pF GQM2195C2A7R0CB01# ±0.5pF GQM2195C2A7R5CB01# ±0.5pF GQM2195C2A7R5CB01# ±0.5pF GQM2195C2A8R0CB01# ±0.5pF GQM2195C2A8R0CB01# ±0.5pF GQM2195C2A8R0CB01# ±0.5pF GQM2195C2A8R0CB01# ±0.5pF GQM2195C2A8R2CB01# ±0.5pF GQM2195C2A8R2CB01# ±0.5pF GQM2195C2A8R2DB01# 9.0pF ±0.25pF GQM2195C2A8R2DB01# 9.0pF ±0.25pF GQM2195C2A9R0CB01# ±0.5pF GQM2195C2A9R0CB01# ±0.5pF GQM2195C2A9R0CB01# ±0.5pF GQM2195C2A9R0DB01# 10pF ±2% GQM2195C2A100GB01# ±5% GQM2195C2A100JB01# 11pF ±2% GQM2195C2A10JB01# 12pF ±2% GQM2195C2A10JB01# 13pF ±2% GQM2195C2A130JB01# 15pF ±2% GQM2195C2A130JB01# 15pF ±2% GQM2195C2A150JB01# 15pF ±2% GQM2195C2A160JB01# ±5% GQM2195C2A160JB01# ±5% GQM2195C2A160JB01# ±5% GQM2195C2A160JB01# ±5% GQM2195C2A160JB01# ±5% GQM2195C2A160JB01# ±5% GQM2195C2A160JB01# ±5% GQM2195C2A160JB01# ±5% GQM2195C2A180JB01# 18pF ±2% GQM2195C2A180JB01# ±5% GQM2194C2A180JB01# ±5% GQM2194C2A180JB01# ±5% GQM2194C2A180JB01# ±5% GQM2194C2A180JB01# ±0.25pF GQM2194C2A1R0CB01# ±0.25pF GQM2194C2A1R0B01#				6.0pF	±0.25pF	GQM2195C2A6R0CB01#
#0.5pF GQM2195C2A6R2DB01# #0.5pF GQM2195C2A6R8CB01# #0.5pF GQM2195C2A7R0CB01# #0.5pF GQM2195C2A7R0CB01# #0.5pF GQM2195C2A7R0CB01# #0.5pF GQM2195C2A7R5CB01# #0.5pF GQM2195C2A7R5CB01# #0.5pF GQM2195C2A7R5CB01# #0.5pF GQM2195C2A8R0CB01# #0.5pF GQM2195C2A8R0CB01# #0.5pF GQM2195C2A8R0CB01# #0.5pF GQM2195C2A8R2CB01# #0.5pF GQM2195C2A8R2CB01# #0.5pF GQM2195C2A8R2CB01# #0.5pF GQM2195C2A9R0CB01# #0.5pF GQM2195C2A9R0CB01# #0.5pF GQM2195C2A9R0CB01# #0.5pF GQM2195C2A9R1CB01# #0.5pF GQM2195C2A9R1CB01# #0.5pF GQM2195C2A9R1DB01# #0.5pF GQM2195C2A10UB01# #0.5pF #0.00000000000000000000000000000000000					±0.5pF	GQM2195C2A6R0DB01#
6.8pF ±0.25pF GQM2195C2A6R8CB01#				6.2pF	±0.25pF	GQM2195C2A6R2CB01#
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7.0pF ±0.25pF GQM2195C2A7R0CB01#				6.8pF	±0.25pF	GQM2195C2A6R8CB01#
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8.0pF ±0.25pF GQM2195C2A8R0CB01# ±0.5pF GQM2195C2A8R2CB01# ±0.5pF GQM2195C2A8R2CB01# ±0.5pF GQM2195C2A8R2CB01# ±0.5pF GQM2195C2A9R0CB01# ±0.5pF GQM2195C2A9R0CB01# ±0.5pF GQM2195C2A9R0DB01# ±0.5pF GQM2195C2A9R1DB01# ±0.5pF GQM2195C2A9R1DB01# ±0.5pF GQM2195C2A10GB01# ±5% GQM2195C2A10GB01# ±5% GQM2195C2A110JB01# 11pF ±2% GQM2195C2A110JB01# 12pF ±2% GQM2195C2A120JB01# ±5% GQM2195C2A130JB01# ±5% GQM2195C2A130JB01# ±5% GQM2195C2A150JB01# ±5% GQM2195C2A160JB01# ±5% GQM2195C2A180JB01# ±5% GQM2195C2A180JB01# ±0.25pF GQM2194C2A1R0GB01# ±0.25pF GQM2194C2AR75B01# ±0.25pF GQM2194C2A1R1BB01# ±0.25pF GQM2194C2A1R1BB01# ±0.25pF GQM2194C2A1R1CB01# 1.2pF ±0.1pF GQM2194C2A1R1CB01# ±0.25pF GQM2194C2A1R2BB01# ±0.25pF GQM2194C2A1R3BB01#				7.5pF	±0.25pF	GQM2195C2A7R5CB01#
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8.2pF ±0.25pF GQM2195C2A8R2CB01# ±0.5pF GQM2195C2A9R0CB01# ±0.5pF GQM2195C2A9R0CB01# ±0.5pF GQM2195C2A9R0DB01# ±0.5pF GQM2195C2A9R1CB01# ±0.5pF GQM2195C2A9R1DB01# ±0.5pF GQM2195C2A9R1DB01# ±0.5pF GQM2195C2A100GB01# ±5% GQM2195C2A100GB01# ±5% GQM2195C2A110GB01# ±5% GQM2195C2A110GB01# ±5% GQM2195C2A110JB01# 12pF ±2% GQM2195C2A120JB01# 13pF ±2% GQM2195C2A120JB01# 15pF ±2% GQM2195C2A130JB01# 15pF ±2% GQM2195C2A130JB01# 15pF ±2% GQM2195C2A150JB01# 15pF ±2% GQM2195C2A150JB01# 16pF ±2% GQM2195C2A160JB01# ±5% GQM2195C2A160JB01# ±5% GQM2195C2A160JB01# ±5% GQM2195C2A180JB01# ±5% GQM2195C2A180JB01# ±0.5pF GQM2194C2AR50BB01# ±0.25pF GQM2194C2AR50BB01# ±0.25pF GQM2194C2A1R0BB01# ±0.25pF GQM2194C2A1R1BB01# ±0.25pF GQM2194C2A1R1CB01# 1.2pF ±0.1pF GQM2194C2A1R2CB01# 1.2pF ±0.1pF GQM2194C2A1R3BB01# ±0.25pF GQM2194C2A1R3BB01# ±0.25pF GQM2194C2A1R3BB01# ±0.25pF GQM2194C2A1R3CB01# 1.3pF ±0.1pF GQM2194C2A1R3CB01# 1.5pF ±0.1pF GQM2194C2A1R3CB01# 1.5pF 40.1pF GQM2194C2A1R3CB01# 1.5pF GQM2194C2A1R3CB01# 1.5pF GQM2194C2A1R3CB01# 1.5pF GQM2194C2A1R3CB01#				8.0pF	±0.25pF	GQM2195C2A8R0CB01#
### ##################################					±0.5pF	GQM2195C2A8R0DB01#
9.0pF ±0.25pF GQM2195C2A9R0CB01# ±0.5pF GQM2195C2A9R1CB01# ±0.5pF GQM2195C2A9R1DB01# ±0.5pF GQM2195C2A9R1DB01# ±0.5pF GQM2195C2A100GB01# ±5% GQM2195C2A100JB01# 11pF ±2% GQM2195C2A110GB01# ±5% GQM2195C2A110JB01# 12pF ±2% GQM2195C2A110JB01# 13pF ±2% GQM2195C2A120JB01# ±5% GQM2195C2A130JB01# 15pF ±2% GQM2195C2A130JB01# 15pF ±2% GQM2195C2A130JB01# 15pF ±2% GQM2195C2A150JB01# 15pF ±2% GQM2195C2A150JB01# 16pF ±2% GQM2195C2A150JB01# 16pF ±2% GQM2195C2A160GB01# ±5% GQM2195C2A160JB01# 18pF ±2% GQM2195C2A160JB01# 18pF ±2% GQM2195C2A180JB01# 10.75pF ±0.1pF GQM2194C2AR50BB01# ±0.25pF GQM2194C2AR75CB01# 1.0pF ±0.1pF GQM2194C2AR75CB01# 1.0pF ±0.1pF GQM2194C2A1R0BB01# ±0.25pF GQM2194C2A1R1BB01# ±0.25pF GQM2194C2A1R1CB01# 1.2pF ±0.1pF GQM2194C2A1R2BB01# ±0.25pF GQM2194C2A1R3BB01#				8.2pF	±0.25pF	GQM2195C2A8R2CB01#
### ### ##############################					±0.5pF	GQM2195C2A8R2DB01#
9.1pF ±0.25pF GQM2195C2A9R1CB01# ±0.5pF GQM2195C2A9R1DB01# 10pF ±2% GQM2195C2A100GB01# ±5% GQM2195C2A110JB01# 11pF ±2% GQM2195C2A110JB01# 12pF ±2% GQM2195C2A110JB01# 12pF ±2% GQM2195C2A120JB01# 13pF ±2% GQM2195C2A120JB01# 15pF ±2% GQM2195C2A130JB01# 15pF ±2% GQM2195C2A130JB01# 15pF ±2% GQM2195C2A130JB01# 15pF ±2% GQM2195C2A150JB01# 16pF ±2% GQM2195C2A150JB01# 18pF ±2% GQM2195C2A160GB01# ±5% GQM2195C2A160JB01# 18pF ±2% GQM2195C2A180JB01# 0.5pF GQM2195C2A180JB01# 10.25pF GQM2194C2A180GB01# 10.25pF GQM2194C2AR50CB01# 10.0pF ±0.1pF GQM2194C2AR75B01# 10.25pF GQM2194C2A1R0BB01# 10.25pF GQM2194C2A1R1BB01# 10.25pF GQM2194C2A1R1BB01# 10.25pF GQM2194C2A1R1BB01# 10.25pF GQM2194C2A1R2BB01# 10.25pF GQM2194C2A1R3BB01#				9.0pF	±0.25pF	GQM2195C2A9R0CB01#
9.1pF ±0.25pF GQM2195C2A9R1CB01# ±0.5pF GQM2195C2A9R1DB01# ±5% GQM2195C2A100GB01# ±5% GQM2195C2A110GB01# ±5% GQM2195C2A110GB01# ±5% GQM2195C2A110JB01# 12pF ±2% GQM2195C2A110JB01# 13pF ±2% GQM2195C2A120GB01# ±5% GQM2195C2A130GB01# ±5% GQM2195C2A130GB01# ±5% GQM2195C2A130JB01# 15pF ±2% GQM2195C2A130JB01# 15pF ±2% GQM2195C2A150GB01# ±5% GQM2195C2A150JB01# 16pF ±2% GQM2195C2A160GB01# ±5% GQM2195C2A160JB01# 18pF ±2% GQM2195C2A180JB01# ±5% GQM2195C2A180JB01# 25% GQM2195C2A180JB01# ±0.25pF GQM2194C2AR50BB01# ±0.25pF GQM2194C2AR75BB01# ±0.25pF GQM2194C2AR75CB01# 1.0pF ±0.1pF GQM2194C2A1R0BB01# ±0.25pF GQM2194C2A1R1BB01# ±0.25pF GQM2194C2A1R1BB01# ±0.25pF GQM2194C2A1R2BB01# ±0.25pF GQM2194C2A1R3BB01#						GQM2195C2A9R0DB01#
### ##################################				9.1pF		GQM2195C2A9R1CB01#
10pF ±2% GQM2195C2A100GB01# ±5% GQM2195C2A100JB01# 11pF ±2% GQM2195C2A110JB01# 12pF ±2% GQM2195C2A110JB01# 12pF ±2% GQM2195C2A120GB01# ±5% GQM2195C2A120JB01# 13pF ±2% GQM2195C2A130JB01# 15pF ±2% GQM2195C2A130JB01# 15pF ±2% GQM2195C2A150JB01# 16pF ±2% GQM2195C2A150JB01# 16pF ±2% GQM2195C2A150JB01# 18pF ±2% GQM2195C2A160JB01# ±5% GQM2195C2A160JB01# 18pF ±2% GQM2195C2A160JB01# 18pF ±2% GQM2195C2A180JB01# 0.75pF ±0.1pF GQM2194C2AR50BB01# ±0.25pF GQM2194C2AR50BB01# ±0.25pF GQM2194C2AR75CB01# 1.0pF ±0.1pF GQM2194C2AR75CB01# 1.1pF ±0.1pF GQM2194C2A1R0BB01# ±0.25pF GQM2194C2A1R1BB01# ±0.25pF GQM2194C2A1R1CB01# 1.2pF ±0.1pF GQM2194C2A1R2BB01# ±0.25pF GQM2194C2A1R3BB01#				·		GQM2195C2A9R1DB01#
### ##################################				10pF		
11pF ±2% GQM2195C2A110GB01# ±5% GQM2195C2A110JB01# 12pF ±2% GQM2195C2A120JB01# ±5% GQM2195C2A120JB01# ±5% GQM2195C2A130GB01# ±5% GQM2195C2A130JB01# 15pF ±2% GQM2195C2A150JB01# 15pF ±2% GQM2195C2A150JB01# ±5% GQM2195C2A150JB01# 16pF ±2% GQM2195C2A160JB01# ±5% GQM2195C2A160JB01# ±5% GQM2195C2A180JB01# 25% GQM2195C2A180JB01# 25% GQM2195C2A180JB01# ±5% GQM2195C2A180JB01# ±0.25pF GQM2194C2AR50BB01# ±0.25pF GQM2194C2AR50CB01# 1.0pF ±0.1pF GQM2194C2AR75CB01# 1.0pF ±0.1pF GQM2194C2A1R0BB01# ±0.25pF GQM2194C2A1R1CB01# ±0.25pF GQM2194C2A1R1CB01# ±0.25pF GQM2194C2A1R2CB01# 1.2pF ±0.1pF GQM2194C2A1R2CB01# 1.3pF ±0.1pF GQM2194C2A1R3CB01# ±0.25pF GQM2194C2A1R3CB01# ±0.25pF GQM2194C2A1R3CB01# ±0.25pF GQM2194C2A1R3CB01# ±0.25pF GQM2194C2A1R3CB01# ±0.25pF GQM2194C2A1R3CB01# ±0.25pF GQM2194C2A1R3CB01#				. 00.		
### ### ##############################				11pF		
12pF ±2% GQM2195C2A120GB01# ±5% GQM2195C2A120JB01# 13pF ±2% GQM2195C2A130JB01# ±5% GQM2195C2A130JB01# 15pF ±2% GQM2195C2A150GB01# ±5% GQM2195C2A150JB01# 16pF ±2% GQM2195C2A160JB01# ±5% GQM2195C2A160JB01# ±5% GQM2195C2A160JB01# ±5% GQM2195C2A180JB01# ±5% GQM2195C2A180JB01# ±5% GQM2195C2A180JB01# ±0.25pF GQM2194C2AR50BB01# ±0.25pF GQM2194C2AR75BB01# ±0.25pF GQM2194C2AR75CB01# 1.0pF ±0.1pF GQM2194C2A1R0BB01# ±0.25pF GQM2194C2A1R1BB01# ±0.25pF GQM2194C2A1R1CB01# 1.1pF ±0.1pF GQM2194C2A1R1CB01# ±0.25pF GQM2194C2A1R2BB01# ±0.25pF GQM2194C2A1R3BB01# ±0.25pF GQM2194C2A1R3BB01# ±0.25pF GQM2194C2A1R3CB01# 1.3pF ±0.1pF GQM2194C2A1R3BB01# ±0.25pF GQM2194C2A1R3CB01# 1.5pF ±0.1pF GQM2194C2A1R3CB01# ±0.25pF GQM2194C2A1R3CB01#				Tipi		
### ### ##############################				12nF		
13pF ±2% GQM2195C2A130GB01# ±5% GQM2195C2A130JB01# 15pF ±2% GQM2195C2A150JB01# ±5% GQM2195C2A150JB01# 16pF ±2% GQM2195C2A160GB01# ±5% GQM2195C2A160JB01# 18pF ±2% GQM2195C2A180JB01# ±5% GQM2195C2A180JB01# ±5% GQM2195C2A180JB01# ±0.25pF GQM2194C2AR50BB01# ±0.25pF GQM2194C2AR50CB01# 1.0pF ±0.1pF GQM2194C2AR75CB01# 1.0pF ±0.1pF GQM2194C2A1R0BB01# ±0.25pF GQM2194C2A1R0CB01# 1.1pF ±0.1pF GQM2194C2A1R1CB01# ±0.25pF GQM2194C2A1R1CB01# ±0.25pF GQM2194C2A1R2CB01# 1.2pF ±0.1pF GQM2194C2A1R2CB01# 1.3pF ±0.1pF GQM2194C2A1R3CB01# ±0.25pF GQM2194C2A1R5CB01#				p.		
### ### ##############################				13nF		
15pF ±2% GQM2195C2A150GB01# ±5% GQM2195C2A150JB01# 16pF ±2% GQM2195C2A160GB01# ±5% GQM2195C2A160JB01# 18pF ±2% GQM2195C2A180GB01# ±5% GQM2195C2A180JB01# ±5% GQM2195C2A180JB01# 0.5pF ±0.1pF GQM2194C2AR50BB01# ±0.25pF GQM2194C2AR50CB01# 1.0pF ±0.1pF GQM2194C2AR75BB01# ±0.25pF GQM2194C2A1R0BB01# ±0.25pF GQM2194C2A1R0BB01# ±0.25pF GQM2194C2A1R1BB01# ±0.25pF GQM2194C2A1R1CB01# 1.2pF ±0.1pF GQM2194C2A1R2BB01# ±0.25pF GQM2194C2A1R2BB01# ±0.25pF GQM2194C2A1R3BB01# ±0.25pF GQM2194C2A1R3BB01# ±0.25pF GQM2194C2A1R3CB01# 1.5pF ±0.1pF GQM2194C2A1R3CB01# ±0.25pF GQM2194C2A1R3CB01# ±0.25pF GQM2194C2A1R3CB01#				ТОРІ		
#5% GQM2195C2A150JB01# 16pF #2% GQM2195C2A160GB01# #5% GQM2195C2A160JB01# 18pF #2% GQM2195C2A180GB01# #5% GQM2195C2A180JB01# #5% GQM2195C2A180JB01# #5% GQM2195C2A180JB01# #5% GQM2194C2AR50BB01# #0.25pF GQM2194C2AR50BB01# #0.25pF GQM2194C2AR75BB01# #0.25pF GQM2194C2A1R0BB01# #0.25pF GQM2194C2A1R0BB01# #0.25pF GQM2194C2A1R1BB01# #0.25pF GQM2194C2A1R1CB01# 1.2pF #0.1pF GQM2194C2A1R2BB01# #0.25pF GQM2194C2A1R2CB01# 1.3pF #0.1pF GQM2194C2A1R3BB01# #0.25pF GQM2194C2A1R3CB01# 1.5pF #0.1pF GQM2194C2A1R3CB01# #0.25pF GQM2194C2A1R3CB01# #0.25pF GQM2194C2A1R3CB01# #0.25pF GQM2194C2A1R3CB01#				15.5		
16pF ±2% GQM2195C2A160GB01# ±5% GQM2195C2A160JB01# 18pF ±2% GQM2195C2A180JB01# ±5% GQM2195C2A180JB01# ±5% GQM2195C2A180JB01# ±5% GQM2194C2AR50BB01# ±0.25pF GQM2194C2AR50CB01# ±0.25pF GQM2194C2AR75CB01# 1.0pF ±0.1pF GQM2194C2A1R0BB01# ±0.25pF GQM2194C2A1R0CB01# ±0.25pF GQM2194C2A1R1BB01# ±0.25pF GQM2194C2A1R1CB01# 1.2pF ±0.1pF GQM2194C2A1R1CB01# ±0.25pF GQM2194C2A1R2CB01# ±0.25pF GQM2194C2A1R3BB01# ±0.25pF GQM2194C2A1R3CB01# ±0.25pF GQM2194C2A1R3CB01# ±0.25pF GQM2194C2A1R3CB01# ±0.25pF GQM2194C2A1R3CB01# ±0.25pF GQM2194C2A1R3CB01# ±0.25pF GQM2194C2A1R5CB01#				тэрг		
### ### ##############################				16nE		
18pF ±2% GQM2195C2A180GB01# ±5% GQM2195C2A180JB01# CK 0.5pF ±0.1pF GQM2194C2AR50BB01# ±0.25pF GQM2194C2AR50CB01# ±0.25pF GQM2194C2AR75BB01# ±0.25pF GQM2194C2AR75CB01# 1.0pF ±0.1pF GQM2194C2A1R0CB01# ±0.25pF GQM2194C2A1R0CB01# ±0.25pF GQM2194C2A1R1BB01# ±0.25pF GQM2194C2A1R1CB01# 1.2pF ±0.1pF GQM2194C2A1R2CB01# ±0.25pF GQM2194C2A1R2CB01# ±0.25pF GQM2194C2A1R3CB01# ±0.25pF GQM2194C2A1R3CB01# ±0.25pF GQM2194C2A1R3CB01# ±0.25pF GQM2194C2A1R3CB01# ±0.25pF GQM2194C2A1R3CB01#				торг		
### ### ##############################				10		
CK 0.5pF ±0.1pF GQM2194C2AR50BB01# ±0.25pF GQM2194C2AR50CB01# 0.75pF ±0.1pF GQM2194C2AR75BB01# ±0.25pF GQM2194C2AR75CB01# 1.0pF ±0.1pF GQM2194C2A1R0BB01# ±0.25pF GQM2194C2A1R0CB01# 1.1pF ±0.1pF GQM2194C2A1R1BB01# ±0.25pF GQM2194C2A1R1CB01# 1.2pF ±0.1pF GQM2194C2A1R2CB01# ±0.25pF GQM2194C2A1R3BB01# ±0.25pF GQM2194C2A1R3CB01# 1.3pF ±0.1pF GQM2194C2A1R3CB01# ±0.25pF GQM2194C2A1R3CB01# ±0.25pF GQM2194C2A1R5CB01# 1.5pF ±0.1pF GQM2194C2A1R5CB01#				ı⊗p⊦		
±0.25pF GQM2194C2AR50CB01# 0.75pF ±0.1pF GQM2194C2AR75BB01# ±0.25pF GQM2194C2AR75CB01# 1.0pF ±0.1pF GQM2194C2A1R0BB01# ±0.25pF GQM2194C2A1R0CB01# 1.1pF ±0.1pF GQM2194C2A1R1BB01# ±0.25pF GQM2194C2A1R1CB01# 1.2pF ±0.1pF GQM2194C2A1R2BB01# ±0.25pF GQM2194C2A1R2CB01# 1.3pF ±0.1pF GQM2194C2A1R3BB01# ±0.25pF GQM2194C2A1R3CB01# 1.5pF ±0.1pF GQM2194C2A1R3CB01# ±0.25pF GQM2194C2A1R5CB01#						
0.75pF ±0.1pF GQM2194C2AR75BB01# ±0.25pF GQM2194C2AR75CB01# 1.0pF ±0.1pF GQM2194C2A1R0BB01# ±0.25pF GQM2194C2A1R0CB01# 1.1pF ±0.1pF GQM2194C2A1R1BB01# ±0.25pF GQM2194C2A1R1CB01# 1.2pF ±0.1pF GQM2194C2A1R2CB01# 1.3pF ±0.1pF GQM2194C2A1R2CB01# 1.3pF ±0.1pF GQM2194C2A1R3BB01# ±0.25pF GQM2194C2A1R3CB01# 1.5pF ±0.1pF GQM2194C2A1R3CB01# 1.5pF ±0.1pF GQM2194C2A1R5CB01#			CK	0.5pF		
#0.25pF GQM2194C2AR75CB01# 1.0pF					-	
1.0pF ±0.1pF GQM2194C2A1R0BB01# ±0.25pF GQM2194C2A1R0CB01# 1.1pF ±0.1pF GQM2194C2A1R1BB01# ±0.25pF GQM2194C2A1R1CB01# 1.2pF ±0.1pF GQM2194C2A1R2BB01# ±0.25pF GQM2194C2A1R2CB01# 1.3pF ±0.1pF GQM2194C2A1R3BB01# ±0.25pF GQM2194C2A1R3CB01# 1.5pF ±0.1pF GQM2194C2A1R5CB01# ±0.25pF GQM2194C2A1R5CB01#				0.75pF		GQM2194C2AR75BB01#
±0.25pF GQM2194C2A1R0CB01# 1.1pF ±0.1pF GQM2194C2A1R1BB01# ±0.25pF GQM2194C2A1R1CB01# 1.2pF ±0.1pF GQM2194C2A1R2CB01# ±0.25pF GQM2194C2A1R2CB01# 1.3pF ±0.1pF GQM2194C2A1R3BB01# ±0.25pF GQM2194C2A1R3CB01# 1.5pF ±0.1pF GQM2194C2A1R5BB01# ±0.25pF GQM2194C2A1R5CB01#						
1.1pF ±0.1pF GQM2194C2A1R1BB01# ±0.25pF GQM2194C2A1R1CB01# 1.2pF ±0.1pF GQM2194C2A1R2CB01# ±0.25pF GQM2194C2A1R2CB01# 1.3pF ±0.1pF GQM2194C2A1R3BB01# ±0.25pF GQM2194C2A1R3CB01# 1.5pF ±0.1pF GQM2194C2A1R5CB01# ±0.25pF GQM2194C2A1R5CB01#				1.0pF	±0.1pF	GQM2194C2A1R0BB01#
#0.25pF GQM2194C2A1R1CB01# 1.2pF					±0.25pF	GQM2194C2A1R0CB01#
1.2pF ±0.1pF GQM2194C2A1R2BB01# ±0.25pF GQM2194C2A1R2CB01# 1.3pF ±0.1pF GQM2194C2A1R3BB01# ±0.25pF GQM2194C2A1R3CB01# 1.5pF ±0.1pF GQM2194C2A1R5BB01# ±0.25pF GQM2194C2A1R5CB01#				1.1pF	±0.1pF	GQM2194C2A1R1BB01#
±0.25pF GQM2194C2A1R2CB01# 1.3pF ±0.1pF GQM2194C2A1R3BB01# ±0.25pF GQM2194C2A1R3CB01# 1.5pF ±0.1pF GQM2194C2A1R5BB01# ±0.25pF GQM2194C2A1R5CB01#					±0.25pF	GQM2194C2A1R1CB01#
1.3pF ±0.1pF GQM2194C2A1R3BB01# ±0.25pF GQM2194C2A1R3CB01# 1.5pF ±0.1pF GQM2194C2A1R5BB01# ±0.25pF GQM2194C2A1R5CB01#				1.2pF	±0.1pF	GQM2194C2A1R2BB01#
±0.25pF GQM2194C2A1R3CB01# 1.5pF ±0.1pF GQM2194C2A1R5CB01# ±0.25pF GQM2194C2A1R5CB01#					±0.25pF	GQM2194C2A1R2CB01#
1.5pF ±0.1pF GQM2194C2A1R5BB01# ±0.25pF GQM2194C2A1R5CB01#				1.3pF	±0.1pF	GQM2194C2A1R3BB01#
±0.25pF GQM2194C2A1R5CB01#					±0.25pF	GQM2194C2A1R3CB01#
±0.25pF GQM2194C2A1R5CB01#				1.5pF	±0.1pF	GQM2194C2A1R5BB01#
					-	GQM2194C2A1R5CB01#
				1.6pF		GQM2194C2A1R6BB01#

Part number # indicates the package specification code.



For General Purpose GRM Series

Capacitor Array GNM Series

> Low ESL LL□ Series

High-Q Type G.IM Series

GQM Series Temperature Compensating Type Fig Part Number List

(→ **■** 2.0×1.25mm)

	.U×1.2	3111111)			
T max.	Rated Voltage	TC Code	Сар.	Tol.	Part Number
0.95mm	100Vdc	СК	1.6pF	±0.25pF	GQM2194C2A1R6CB01#
			1.8pF	±0.1pF	GQM2194C2A1R8BB01#
				±0.25pF	GQM2194C2A1R8CB01#
			2.0pF	±0.1pF	GQM2194C2A2R0BB01#
				±0.25pF	GQM2194C2A2R0CB01#
		CJ	2.2pF	±0.1pF	GQM2193C2A2R2BB01#
			•	±0.25pF	GQM2193C2A2R2CB01#
			2.4pF	±0.1pF	GQM2193C2A2R4BB01#
			p.	±0.25pF	GQM2193C2A2R4CB01#
			2.7pF	±0.1pF	GQM2193C2A2R7BB01#
			2.7 pr	-	
			0.0.5	±0.25pF	GQM2193C2A2R7CB01#
			3.0pF	±0.1pF	GQM2193C2A3R0BB01#
				±0.25pF	GQM2193C2A3R0CB01#
			3.3pF	±0.1pF	GQM2193C2A3R3BB01#
				±0.25pF	GQM2193C2A3R3CB01#
			3.6pF	±0.1pF	GQM2193C2A3R6BB01#
				±0.25pF	GQM2193C2A3R6CB01#
			3.9pF	±0.1pF	GQM2193C2A3R9BB01#
				±0.25pF	GQM2193C2A3R9CB01#
		СН	4.0pF	±0.1pF	GQM2192C2A4R0BB01#
				±0.25pF	GQM2192C2A4R0CB01#
			4.3pF	±0.1pF	GQM2192C2A4R3BB01#
				±0.25pF	GQM2192C2A4R3CB01#
			4.7pF	±0.1pF	GQM2192C2A4R7BB01#
			•	±0.25pF	GQM2192C2A4R7CB01#
			5.0pF	±0.1pF	GQM2192C2A5R0BB01#
			0.00.	±0.25pF	GQM2192C2A5R0CB01#
			5.1pF	±0.25pF	GQM2192C2A5R1CB01#
			J. 1pi	-	GQM2192C2A5R1DB01#
			F CoF	±0.5pF	
			5.6pF	±0.25pF	GQM2192C2A5R6CB01#
				±0.5pF	GQM2192C2A5R6DB01#
			6.0pF	±0.25pF	GQM2192C2A6R0CB01#
				±0.5pF	GQM2192C2A6R0DB01#
			6.2pF	±0.25pF	GQM2192C2A6R2CB01#
				±0.5pF	GQM2192C2A6R2DB01#
			6.8pF	±0.25pF	GQM2192C2A6R8CB01#
				±0.5pF	GQM2192C2A6R8DB01#
			7.0pF	±0.25pF	GQM2192C2A7R0CB01#
				±0.5pF	GQM2192C2A7R0DB01#
			7.5pF	±0.25pF	GQM2192C2A7R5CB01#
				±0.5pF	GQM2192C2A7R5DB01#
			8.0pF	±0.25pF	GQM2192C2A8R0CB01#
			•	±0.5pF	GQM2192C2A8R0DB01#
			8.2pF	±0.25pF	GQM2192C2A8R2CB01#
			p.	±0.5pF	GQM2192C2A8R2DB01#
			9.0pF	±0.25pF	GQM2192C2A9R0CB01#
			0.0pi	±0.5pF	GQM2192C2A9R0DB01#
			0 1 n E	-	
			9.1pF	±0.25pF	GQM2192C2A9R1CB01#
			40.5	±0.5pF	GQM2192C2A9R1DB01#
			10pF	±2%	GQM2192C2A100GB01#
				±5%	GQM2192C2A100JB01#
			11pF	±2%	GQM2192C2A110GB01#
				±5%	GQM2192C2A110JB01#
			12pF	±2%	GQM2192C2A120GB01#

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number																	
0.95mm	100Vdc	СН	12pF	±5%	GQM2192C2A120JB01#																	
			13pF	±2%	GQM2192C2A130GB01#																	
				±5%	GQM2192C2A130JB01#																	
			15pF	±2%	GQM2192C2A150GB01#																	
				±5%	GQM2192C2A150JB01#																	
			16pF	±2%	GQM2192C2A160GB01#																	
				±5%	GQM2192C2A160JB01#																	
			18pF	±2%	GQM2192C2A180GB01#																	
				±5%	GQM2192C2A180JB01#																	
	50Vdc	C0G	20pF	±2%	GQM2195C1H200GB01#																	
				±5%	GQM2195C1H200JB01#																	
			22pF	±2%	GQM2195C1H220GB01#																	
				±5%	GQM2195C1H220JB01#																	
			24pF	±2%	GQM2195C1H240GB01#																	
				±5%	GQM2195C1H240JB01#																	
			27pF	±2%	GQM2195C1H270GB01#																	
				±5%	GQM2195C1H270JB01#																	
			30pF	±2%	GQM2195C1H300GB01#																	
				±5%	GQM2195C1H300JB01#																	
			33pF	±2%	GQM2195C1H330GB01#																	
				±5%	GQM2195C1H330JB01#																	
			36pF	±2%	GQM2195C1H360GB01#																	
				±5%	GQM2195C1H360JB01#																	
			39pF	±2%	GQM2195C1H390GB01#																	
			·	±5%	GQM2195C1H390JB01#																	
			43pF	±2%	GQM2195C1H430GB01#																	
			·	±5%	GQM2195C1H430JB01#																	
			47pF	±2%	GQM2195C1H470GB01#																	
				±5%	GQM2195C1H470JB01#																	
			51pF	±2%	GQM2195C1H510GB01#																	
																				- · p·	±5%	GQM2195C1H510JB01#
			56pF	±2%	GQM2195C1H560GB01#																	
			о ор.	±5%	GQM2195C1H560JB01#																	
			62pF	±2%	GQM2195C1H620GB01#																	
			о _ р.	±5%	GQM2195C1H620JB01#																	
			68pF	±2%	GQM2195C1H680GB01#																	
			оорі	±5%	GQM2195C1H680JB01#																	
			75pF	±2%	GQM2195C1H750GB01#																	
			7 3 pi		GQM2195C1H750JB01#																	
			92nE	±5%	GQM2195C1H820GB01#																	
			82pF	±2%		<u> </u>																
			01	±5%	GQM2195C1H820JB01#																	
			91pF	±2%	GQM2195C1H910GB01#																	
				±5%	GQM2195C1H910JB01#																	
			100pF	±2%	GQM2195C1H101GB01#																	
				±5%	GQM2195C1H101JB01#																	
		CH	20pF	±2%	GQM2192C1H200GB01#																	
				±5%	GQM2192C1H200JB01#																	
			22pF	±2%	GQM2192C1H220GB01#																	
				±5%	GQM2192C1H220JB01#																	
			24pF	±2%	GQM2192C1H240GB01#																	
				±5%	GQM2192C1H240JB01#																	
			27pF	±2%	GQM2192C1H270GB01#																	
				±5%	GQM2192C1H270JB01#																	
			30pF	±2%	GQM2192C1H300GB01#																	
			Part nun	nher # indic	cates the package specification	code																

(→ **■** 2.0×1.25mm)

T max.	Rated Voltage	TC Code	Сар.	Tol.	Part Number
95mm	50Vdc	СН	30pF	±5%	GQM2192C1H300JB01#
			33pF	±2%	GQM2192C1H330GB01#
				±5%	GQM2192C1H330JB01#
			36pF	±2%	GQM2192C1H360GB01#
				±5%	GQM2192C1H360JB01#
			39pF	±2%	GQM2192C1H390GB01#
				±5%	GQM2192C1H390JB01#
			43pF	±2%	GQM2192C1H430GB01#
				±5%	GQM2192C1H430JB01#
			47pF	±2%	GQM2192C1H470GB01#
				±5%	GQM2192C1H470JB01#
			51pF	±2%	GQM2192C1H510GB01#
				±5%	GQM2192C1H510JB01#
			56pF	±2%	GQM2192C1H560GB01#
				±5%	GQM2192C1H560JB01#
			62pF	±2%	GQM2192C1H620GB01#
				±5%	GQM2192C1H620JB01#
			68pF	±2%	GQM2192C1H680GB01#
				±5%	GQM2192C1H680JB01#
			75pF	±2%	GQM2192C1H750GB01#
				±5%	GQM2192C1H750JB01#
			82pF	±2%	GQM2192C1H820GB01#
				±5%	GQM2192C1H820JB01#
			91pF	±2%	GQM2192C1H910GB01#
				±5%	GQM2192C1H910JB01#
			100pF	±2%	GQM2192C1H101GB01#
				±5%	GQM2192C1H101JB01#
mm	250Vdc	COG	0.5pF	±0.1pF	GQM2195C2ER50BB12#
				±0.25pF	GQM2195C2ER50CB12#
			0.75pF	±0.1pF	GQM2195C2ER75BB12#
				±0.25pF	GQM2195C2ER75CB12#
			1.0pF	±0.1pF	GQM2195C2E1R0BB12#
				±0.25pF	GQM2195C2E1R0CB12#
			1.1pF	±0.1pF	GQM2195C2E1R1BB12#
				±0.25pF	GQM2195C2E1R1CB12#
			1.2pF	±0.1pF	GQM2195C2E1R2BB12#
				±0.25pF	GQM2195C2E1R2CB12#
			1.3pF	±0.1pF	GQM2195C2E1R3BB12#
				±0.25pF	GQM2195C2E1R3CB12#
			1.5pF	±0.1pF	GQM2195C2E1R5BB12#
				±0.25pF	GQM2195C2E1R5CB12#
			1.6pF	±0.1pF	GQM2195C2E1R6BB12#
				±0.25pF	GQM2195C2E1R6CB12#
			1.8pF	±0.1pF	GQM2195C2E1R8BB12#
				±0.25pF	GQM2195C2E1R8CB12#
			2.0pF	±0.1pF	GQM2195C2E2R0BB12#
				±0.25pF	GQM2195C2E2R0CB12#
			2.2pF	±0.1pF	GQM2195C2E2R2BB12#
				±0.25pF	GQM2195C2E2R2CB12#
			2.4pF	±0.1pF	GQM2195C2E2R4BB12#
				±0.25pF	GQM2195C2E2R4CB12#
			2.7pF	±0.1pF	GQM2195C2E2R7BB12#
				±0.25pF	GQM2195C2E2R7CB12#
	1		3.0pF	±0.1pF	GQM2195C2E3R0BB12#

Total							
3.9pF				Сар.	Tol.	Part Number	
#0.55pF GQM2195C2E3R3CB12# #0.15pF GQM2195C2E3R6B12# #0.15pF GQM2195C2E3R9CB12# #0.15pF GQM2195C2E3R9CB12# #0.25pF GQM2195C2E3R9CB12# #0.25pF GQM2195C2E4R0B12# #0.25pF GQM2195C2E4R0B12# #0.25pF GQM2195C2E4R0B12# #0.25pF GQM2195C2E4R3B12# #0.25pF GQM2195C2E4R3B12# #0.25pF GQM2195C2E4R3B12# #0.25pF GQM2195C2E4R3B12# #0.25pF GQM2195C2E4R3B12# #0.25pF GQM2195C2E4R3B12# #0.25pF GQM2195C2E4R7B12# #0.25pF GQM2195C2E5R0B12# #0.5pF GQM2195C2E5R0B12# #0.5pF GQM2195C2E5R1D812# #0.5pF GQM2195C2E5R1D812# #0.5pF GQM2195C2E5R1D812# #0.5pF GQM2195C2E5R0CB12# #0.5pF GQM2195C2E5R2B12# #0.5pF GQM2195C2E5R0CB12# #0.5pF GQM2195C2E5R0CB	1mm	250Vdc	C0G	3.0pF	±0.25pF	GQM2195C2E3R0CB12#	
3.6pF				3.3pF	±0.1pF	GQM2195C2E3R3BB12#	
#0.25pF GQM2195C2E3R9B12# #0.25pF GQM2195C2E3R9B12# #0.1pF GQM2195C2E4R0B12# #0.1pF GQM2195C2E4R0B12# #0.25pF GQM2195C2E4R0B12# #0.25pF GQM2195C2E4R0B12# #0.25pF GQM2195C2E4R3B12# #0.25pF GQM2195C2E4R3B12# #0.25pF GQM2195C2E4R3B12# #0.25pF GQM2195C2E5R0B12# #0.25pF GQM2195C2E5R0B12# #0.25pF GQM2195C2E5R0B12# #0.5pF GQM2195C2E6R0B12# #0.5pF GQM2195C2E6R0B12# #0.5pF GQM2195C2E6R0B12# #0.5pF GQM2195C2E7R0B12# #0.5pF GQM2195C2ER0B12# #0.5pF GQM2195C2E7R0B12# #0.5pF GQM2195C2E7R0B12# #0.5pF GQM2195C2E7R0B12# #0.5pF GQM2195C2E7R0B12# #0.5pF GQM2195C2E7R0B12# #0.5pF GQM2195C2ERR0B12# #0.5pF GQM2195C2E10GB12# #0.5pF GQM2195C2E10GB12# #0.5pF GQM2195C2E10GB12# #15pF ±2% GQM2195C2E10GB12# #15pF ±2% GQM2195C2E10GB12# #15pF ±2% GQM2195C2E10GB12# #15pF ±2% GQM2195C2E10GB12# #15pF ±2% GQM2195C2E10GB12# #15pF ±2% GQM2195C2E10GB12# #15pF ±2% GQM2195C2E10GB12# #15pF ±2% GQM2195C2E10GB12# #15pF ±2% GQM2195C2E10GB12# #15pF ±2% GQM2195C2E10GB12# #15pF ±2% GQM2195C2E10GB12# #15pF ±2% GQM2195C2E10GB12# #15pF ±2% GQM2195C2E10GB12# #15pF ±2% GQM2195C2E10GB12#					±0.25pF	GQM2195C2E3R3CB12#	
3.9pF				3.6pF	±0.1pF	GQM2195C2E3R6BB12#	
#0.25pF GOM2195C2E3R9CB12# #0.25pF GOM2195C2E4R0BB12# #0.25pF GOM2195C2E4R3BB12# #0.25pF GOM2195C2E4R3BB12# #0.25pF GOM2195C2E4R3BB12# #0.25pF GOM2195C2E4R7BB12# #0.25pF GOM2195C2E4R7BB12# #0.25pF GOM2195C2E4R7CB12# #0.25pF GOM2195C2E5R0BB12# #0.25pF GOM2195C2E5R0BB12# #0.5pF GOM2195C2E6R0BB12# #0.5pF GOM2195C2E7R0BB12# #0.5pF GOM2195C2E8R0CB12# #0.5pF GOM2195C2E8R0CB12# #0.5pF GOM2195C2E8R0CB12# #0.5pF GOM2195C2E8R0BB12# #0.5pF GOM2195C2EBR0BB12# #0.5pF GOM2195C2EBOBB12# #0.5pF GOM2195C2EBOBB					±0.25pF	GQM2195C2E3R6CB12#	L
4.0pF				3.9pF	±0.1pF	GQM2195C2E3R9BB12#	
#0.25pF GOM2195C2E4R0CB12# #0.25pF GOM2195C2E4R7BB12# #0.25pF GOM2195C2E4R7BB12# #0.25pF GOM2195C2E4R7BB12# #0.25pF GOM2195C2E5R0BB12# #0.25pF GOM2195C2E5R0BB12# #0.25pF GOM2195C2E5R0BB12# #0.25pF GOM2195C2E5R0BB12# #0.5pF GOM2195C2E5R0B12# #0.5pF GOM2195C2E5R0B12# #0.5pF GOM2195C2E5R0B12# #0.5pF GOM2195C2E5R0B12# #0.5pF GOM2195C2E5R0B12# #0.5pF GOM2195C2E5R0B12# #0.5pF GOM2195C2E6R0B12# #0.5pF GOM2195C2E7R0CB12# #0.5pF GOM2195C2E7R0CB12# #0.5pF GOM2195C2E7R0B12# #0.5pF GOM2195C2E100B12# #0.					±0.25pF	GQM2195C2E3R9CB12#	
4.3pF				4.0pF	±0.1pF	GQM2195C2E4R0BB12#	
#0.25pF GQM2195C2E4R3CB12# #0.1pF GQM2195C2E4R7CB12# #0.25pF GQM2195C2E5R0CB12# #0.25pF GQM2195C2E5R1CB12# #0.5pF GQM2195C2E5R1CB12# #0.5pF GQM2195C2E5R0CB12# #0.5pF GQM2195C2E5R0CB12# #0.5pF GQM2195C2E5R0CB12# #0.5pF GQM2195C2E5R0CB12# #0.5pF GQM2195C2E5R0CB12# #0.5pF GQM2195C2E5R0CB12# #0.5pF GQM2195C2E6R0CB12# #0.5pF GQM2195C2E7R0CB12# #0.5pF GQM2195C2E7R0CB12# #0.5pF GQM2195C2E7R0CB12# #0.5pF GQM2195C2E7R0CB12# #0.5pF GQM2195C2E7R0CB12# #0.5pF GQM2195C2E7R0CB12# #0.5pF GQM2195C2E8R0CB12# #0.5pF GQM2195C2E9R0CB12# #0.5pF GQM2195C2E9R1CB12# #0.5pF GQM2195C2E100JB12# #0.5pF GQM2195C					±0.25pF	GQM2195C2E4R0CB12#	
### ### ##############################				4.3pF	±0.1pF	GQM2195C2E4R3BB12#	
#0.25pF GQM2195C2E4R7CB12# #0.25pF GQM2195C2E5R0CB12# #0.5pF GQM2195C2E6R0CB12# #0.5pF GQM2195C2E7R0CB12# #0.5pF GQM2195C2E7R0CB12# #0.5pF GQM2195C2E7R0CB12# #0.5pF GQM2195C2E8R0CB12# #0.5pF GQM2195C2E9R0CB12# #0.5pF GQM2195C2E9R0DB12# #0.5pF GQM2195C2E9R0DB12# #0.5pF GQM2195C2E9R0DB12# #0.5pF GQM2195C2E100B12# #0.5pF GQM2195C2E10					±0.25pF	GQM2195C2E4R3CB12#	
5.0pF				4.7pF	±0.1pF	GQM2195C2E4R7BB12#	
#0.25pF GQM2195C2E5R0CB12# #0.5pF GQM2195C2E5R0CB12# #0.5pF GQM2195C2E5R0CB12# #0.5pF GQM2195C2E5R0CB12# #0.5pF GQM2195C2E5R0CB12# #0.5pF GQM2195C2E5R0CB12# #0.5pF GQM2195C2E6R0CB12# #0.5pF GQM2195C2E7R0CB12# #0.5pF GQM2195C2E7R0CB12# #0.5pF GQM2195C2E7R0CB12# #0.5pF GQM2195C2E7R0CB12# #0.5pF GQM2195C2E7R0CB12# #0.5pF GQM2195C2E8R0CB12# #0.5pF GQM2195C2E9R0CB12# #0.5pF GQM2195C2E9R0CB12# #0.5pF GQM2195C2E9R0CB12# #0.5pF GQM2195C2E9R0CB12# #0.5pF GQM2195C2E100B12# #0.5pF GQM2195C2E200B12# #0.5pF GQM2195C2E200B12# #0.5pF GQM21				•		GQM2195C2E4R7CB12#	
#0.25pF GQM2195C2E5R0CB12# #0.5pF GQM2195C2E5R0CB12# #0.5pF GQM2195C2E5R0CB12# #0.5pF GQM2195C2E5R0CB12# #0.5pF GQM2195C2E5R0CB12# #0.5pF GQM2195C2E5R0CB12# #0.5pF GQM2195C2E6R0CB12# #0.5pF GQM2195C2E7R0CB12# #0.5pF GQM2195C2E7R0CB12# #0.5pF GQM2195C2E7R0CB12# #0.5pF GQM2195C2E7R0CB12# #0.5pF GQM2195C2E7R0CB12# #0.5pF GQM2195C2E8R0CB12# #0.5pF GQM2195C2E9R0CB12# #0.5pF GQM2195C2E9R0CB12# #0.5pF GQM2195C2E9R0CB12# #0.5pF GQM2195C2E9R0CB12# #0.5pF GQM2195C2E100B12# #0.5pF GQM2195C2E200B12# #0.5pF GQM2195C2E200B12# #0.5pF GQM21				5.0pF		GQM2195C2E5R0BB12#	
5.1pF ±0.25pF GQM2195C2E5R1CB12# ±0.5pF GQM2195C2E5R6CB12# ±0.5pF GQM2195C2E5R6CB12# ±0.5pF GQM2195C2E5R6CB12# ±0.5pF GQM2195C2E6R0CB12# ±0.5pF GQM2195C2E6R0CB12# ±0.5pF GQM2195C2E6R2CB12# ±0.5pF GQM2195C2E6R2CB12# ±0.5pF GQM2195C2E6R2CB12# ±0.5pF GQM2195C2E6R8CB12# ±0.5pF GQM2195C2E6R8CB12# ±0.5pF GQM2195C2E6R8CB12# ±0.5pF GQM2195C2E7R0CB12# ±0.5pF GQM2195C2E7R0CB12# ±0.5pF GQM2195C2E7R0CB12# ±0.5pF GQM2195C2E7R5CB12# ±0.5pF GQM2195C2E7R5CB12# ±0.5pF GQM2195C2E7R5CB12# ±0.5pF GQM2195C2E7R5CB12# ±0.5pF GQM2195C2E8R0CB12# ±0.5pF GQM2195C2E9R0CB12# ±0.5pF GQM2195C2E9R0CB12# ±0.5pF GQM2195C2E9R0CB12# ±0.5pF GQM2195C2E100GB12# ±2% GQM2195C2E100GB12# ±2% GQM2195C2E100GB12# ±5% GQM2195C2E100GB12# ±5% GQM2195C2E100GB12# ±5% GQM2195C2E100GB12# ±5% GQM2195C2E130GB12# ±5% GQM2195C2E200GB12# ±5% GQM2195C2E200					· ·	GQM2195C2E5R0CB12#	
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### ### ##############################							
8.0pF ±0.25pF GQM2195C2E8R0CB12# ±0.5pF GQM2195C2E8R2CB12# ±0.5pF GQM2195C2E8R2CB12# ±0.5pF GQM2195C2E8R2CB12# ±0.5pF GQM2195C2E9R0CB12# ±0.5pF GQM2195C2E9R0CB12# ±0.5pF GQM2195C2E9R0CB12# ±0.5pF GQM2195C2E9R1CB12# ±0.5pF GQM2195C2E9R1CB12# ±0.5pF GQM2195C2E9R1CB12# ±0.5pF GQM2195C2E100GB12# ±5% GQM2195C2E100GB12# ±5% GQM2195C2E100JB12# ±5% GQM2195C2E10JB12# ±5% GQM2195C2E10JB12# ±5% GQM2195C2E120JB12# ±5% GQM2195C2E130JB12# ±5% GQM2195C2E130JB12# ±5% GQM2195C2E130JB12# ±5% GQM2195C2E130JB12# ±5% GQM2195C2E130JB12# ±5% GQM2195C2E150JB12# ±5% GQM2195C2E150JB12# ±5% GQM2195C2E160JB12# ±5% GQM2195C2E160JB12# ±5% GQM2195C2E160JB12# ±5% GQM2195C2E180JB12# ±5% GQM2195C2E180JB12# ±5% GQM2195C2E180JB12# ±5% GQM2195C2E180JB12# ±5% GQM2195C2E180JB12# ±5% GQM2195C2E180JB12# ±5% GQM2195C2E200GB12# ±5% GQM2195C2E200JB12# ±5% GQM2195C2E200JB12# ±5% GQM2195C2E200JB12# ±5% GQM2195C2E200JB12#				/.5pF			
#0.5pF GQM2195C2E8R0DB12# #0.25pF GQM2195C2E8R2CB12# #0.5pF GQM2195C2E8R2DB12# #0.5pF GQM2195C2E9R0CB12# #0.5pF GQM2195C2E9R0B12# #0.5pF GQM2195C2E9R0B12# #0.5pF GQM2195C2E9R1CB12# #0.5pF GQM2195C2E9R1DB12# #0.5pF GQM2195C2E9R1DB12# #0.5pF GQM2195C2E100GB12# #0.5pF GQM2195C2E100GB12# #0.5pF GQM2195C2E100JB12# #0.5pF GQM2195C2E100JB12# #0.5pF GQM2195C2E100JB12# #0.5pF GQM2195C2E100JB12# #0.5pF GQM2195C2E10JB12# #0.5pF GQM2195C2E10JB12# #0.5pF GQM2195C2E10JB12# #0.5pF #0.25pF GQM2195C2E10JB12# #0.5pF #0.25pF GQM2195C2E130JB12# #0.5pF #0.25pF GQM2195C2E130JB12# #0.5pF #0.25pF GQM2195C2E150JB12# #0.5pF #0.25pF GQM2195C2E150JB12# #0.5pF #0.25pF GQM2195C2E160JB12# #0.5pF #0.25pF GQM2195C2E160JB12# #0.5pF #0.25pF GQM2195C2E160JB12# #0.5pF #0.25pF GQM2195C2E180JB12# #0.5pF #0.25pF GQM2195C2E200JB12# #0.5pF #0.25pF GQM2195C2E200JB12# #0.5pF #0.25pF GQM2195C2E200JB12# #0.5pp #0.25pF GQM2195C2E200JB12# #0.5pp #0.25pF GQM2195C2E200JB12# #0.25pF #0.25pF GQM2195C2E200JB12# #0.25pF #0.25pF GQM2195C2E200JB12# #0.25pF #0.25pF GQM2195C2E200JB12# #0.25pF #0.25pF GQM2195C2E200JB12# #0.25pF #0.25pF GQM2195C2E200JB12# #0.25pF #0.25pF GQM2195C2E200JB12#					-		
8.2pF ±0.25pF GQM2195C2E8R2CB12# ±0.5pF GQM2195C2E9R0CB12# ±0.5pF GQM2195C2E9R0CB12# ±0.5pF GQM2195C2E9R0DB12# ±0.5pF GQM2195C2E9R1CB12# ±0.5pF GQM2195C2E9R1DB12# ±0.5pF GQM2195C2E100GB12# ±5% GQM2195C2E100GB12# ±5% GQM2195C2E100GB12# ±5% GQM2195C2E110JB12# ±5% GQM2195C2E110JB12# ±5% GQM2195C2E110JB12# ±5% GQM2195C2E120JB12# ±5% GQM2195C2E130JB12# ±5% GQM2195C2E130JB12# ±5% GQM2195C2E130JB12# ±5% GQM2195C2E150JB12# ±5% GQM2195C2E150JB12# ±5% GQM2195C2E150JB12# ±5% GQM2195C2E150JB12# ±5% GQM2195C2E160JB12# ±5% GQM2195C2E160JB12# ±5% GQM2195C2E160JB12# ±5% GQM2195C2E180JB12# ±5% GQM2195C2E180JB12# ±5% GQM2195C2E180JB12# ±5% GQM2195C2E180JB12# ±5% GQM2195C2E180JB12# ±5% GQM2195C2E200JB12#				8.0pF			
### ### ##############################							
9.0pF ±0.25pF GQM2195C2E9R0CB12# ±0.5pF GQM2195C2E9R1CB12# ±0.5pF GQM2195C2E9R1DB12# ±0.5pF GQM2195C2E9R1DB12# ±5% GQM2195C2E100GB12# ±5% GQM2195C2E100JB12# ±5% GQM2195C2E110JB12# ±5% GQM2195C2E110JB12# ±5% GQM2195C2E110JB12# ±5% GQM2195C2E120JB12# ±5% GQM2195C2E120JB12# ±5% GQM2195C2E130JB12# ±5% GQM2195C2E130JB12# ±5% GQM2195C2E130JB12# ±5% GQM2195C2E150JB12# ±5% GQM2195C2E150JB12# ±5% GQM2195C2E150JB12# ±5% GQM2195C2E160JB12# ±5% GQM2195C2E160JB12# ±5% GQM2195C2E160JB12# ±5% GQM2195C2E180JB12# ±5% GQM2195C2E180JB12# ±5% GQM2195C2E180JB12# ±5% GQM2195C2E180JB12# ±5% GQM2195C2E180JB12# ±5% GQM2195C2E200JB12#				8.2pF			
#0.5pF GQM2195C2E9R0DB12# #0.25pF GQM2195C2E9R1CB12# #0.5pF GQM2195C2E9R1DB12# #0.5pF GQM2195C2E100GB12# #5% GQM2195C2E100JB12# #5% GQM2195C2E110JB12# #5% GQM2195C2E110JB12# #5% GQM2195C2E110JB12# #5% GQM2195C2E120JB12# #5% GQM2195C2E120JB12# #5% GQM2195C2E130JB12# #5% GQM2195C2E130JB12# #5% GQM2195C2E130JB12# #5% GQM2195C2E150JB12# #5% GQM2195C2E150JB12# #5% GQM2195C2E150JB12# #5% GQM2195C2E160GB12# #5% GQM2195C2E160JB12# #5% GQM2195C2E160JB12# #5% GQM2195C2E180JB12# #5% GQM2195C2E180JB12# #5% GQM2195C2E180JB12# #5% GQM2195C2E180JB12# #5% GQM2195C2E180JB12# #5% GQM2195C2E200GB12# #5% GQM2195C2E200JB12# #5% GQM2195C2E200JB12# #5% GQM2195C2E200JB12# #5% GQM2195C2E200JB12#					±0.5pF		
9.1pF ±0.25pF GQM2195C2E9R1CB12# ±0.5pF GQM2195C2E9R1DB12# 10pF ±2% GQM2195C2E100GB12# ±5% GQM2195C2E110JB12# ±5% GQM2195C2E110JB12# ±5% GQM2195C2E110JB12# ±5% GQM2195C2E120GB12# ±5% GQM2195C2E120JB12# ±5% GQM2195C2E130JB12# ±5% GQM2195C2E130JB12# ±5% GQM2195C2E130JB12# ±5% GQM2195C2E150JB12# ±5% GQM2195C2E150JB12# ±5% GQM2195C2E150JB12# ±5% GQM2195C2E160GB12# ±5% GQM2195C2E160JB12# ±5% GQM2195C2E160JB12# ±5% GQM2195C2E180JB12# ±5% GQM2195C2E180JB12# ±5% GQM2195C2E180JB12# ±5% GQM2195C2E180JB12# ±5% GQM2195C2E200JB12#				9.0pF	±0.25pF	GQM2195C2E9R0CB12#	
#0.5pF GQM2195C2E9R1DB12# #2% GQM2195C2E100GB12# #5% GQM2195C2E100JB12# #1pF #2% GQM2195C2E110JB12# #5% GQM2195C2E110JB12# #5% GQM2195C2E120JB12# #5% GQM2195C2E120JB12# #5% GQM2195C2E130JB12# #5% GQM2195C2E130JB12# #5% GQM2195C2E130JB12# #5% GQM2195C2E150JB12# #5% GQM2195C2E150JB12# #5% GQM2195C2E160JB12# #5% GQM2195C2E160JB12# #5% GQM2195C2E160JB12# #5% GQM2195C2E180JB12# #2% GQM2195C2E180JB12# #5% GQM2195C2E180JB12# #5% GQM2195C2E180JB12# #5% GQM2195C2E180JB12# #5% GQM2195C2E200JB12# #5% GQM2195C2E200JB12# #20pF #2% GQM2195C2E200JB12# #25% GQM2195C2E200JB12# #25% GQM2195C2E200JB12# #20pF #2% GQM2195C2E200JB12#					±0.5pF	GQM2195C2E9R0DB12#	
10pF ±2% GQM2195C2E100GB12# ±5% GQM2195C2E110JB12# 11pF ±2% GQM2195C2E110JB12# ±5% GQM2195C2E110JB12# ±5% GQM2195C2E120GB12# ±5% GQM2195C2E120JB12# ±5% GQM2195C2E130JB12# ±5% GQM2195C2E130JB12# ±5% GQM2195C2E150JB12# ±5% GQM2195C2E150JB12# ±5% GQM2195C2E160JB12# ±5% GQM2195C2E160JB12# ±5% GQM2195C2E160JB12# ±5% GQM2195C2E180JB12# ±5% GQM2195C2E180JB12# ±5% GQM2195C2E180JB12# ±5% GQM2195C2E180JB12# ±5% GQM2195C2E180JB12# ±5% GQM2195C2E200JB12#				9.1pF	±0.25pF	GQM2195C2E9R1CB12#	
±5% GQM2195C2E100JB12# 11pF ±2% GQM2195C2E110GB12# ±5% GQM2195C2E110JB12# 12pF ±2% GQM2195C2E120GB12# ±5% GQM2195C2E120JB12# 13pF ±2% GQM2195C2E130JB12# ±5% GQM2195C2E130JB12# 15pF ±2% GQM2195C2E150JB12# ±5% GQM2195C2E150JB12# ±5% GQM2195C2E160JB12# ±5% GQM2195C2E160JB12# ±5% GQM2195C2E160JB12# 20pF ±2% GQM2195C2E180JB12# 20pF ±2% GQM2195C2E180JB12# 22pF ±2% GQM2195C2E200JB12#					±0.5pF	GQM2195C2E9R1DB12#	
11pF ±2% GQM2195C2E110GB12# ±5% GQM2195C2E110JB12# 12pF ±2% GQM2195C2E120JB12# ±5% GQM2195C2E120JB12# ±5% GQM2195C2E130JB12# ±5% GQM2195C2E130JB12# ±5% GQM2195C2E150GB12# ±5% GQM2195C2E150JB12# ±5% GQM2195C2E160JB12# ±5% GQM2195C2E160JB12# ±5% GQM2195C2E180JB12# ±5% GQM2195C2E180JB12# ±5% GQM2195C2E180JB12# ±5% GQM2195C2E180JB12# ±5% GQM2195C2E200GB12# ±5% GQM2195C2E200JB12# ±5% GQM2195C2E200JB12# ±5% GQM2195C2E200JB12# ±5% GQM2195C2E200JB12#				10pF	±2%	GQM2195C2E100GB12#	
±5% GQM2195C2E110JB12# 12pF ±2% GQM2195C2E120GB12# ±5% GQM2195C2E120JB12# 13pF ±2% GQM2195C2E130GB12# ±5% GQM2195C2E130JB12# 15pF ±2% GQM2195C2E150GB12# ±5% GQM2195C2E150JB12# 16pF ±2% GQM2195C2E160GB12# ±5% GQM2195C2E160JB12# ±5% GQM2195C2E180JB12# 20pF ±2% GQM2195C2E180JB12# 20pF ±2% GQM2195C2E200GB12# ±5% GQM2195C2E200JB12# 22pF ±2% GQM2195C2E200JB12#					±5%	GQM2195C2E100JB12#	
12pF ±2% GQM2195C2E120GB12# ±5% GQM2195C2E120JB12# 13pF ±2% GQM2195C2E130GB12# ±5% GQM2195C2E130JB12# 15pF ±2% GQM2195C2E150GB12# ±5% GQM2195C2E150JB12# 16pF ±2% GQM2195C2E160GB12# ±5% GQM2195C2E160JB12# ±5% GQM2195C2E180JB12# 20pF ±2% GQM2195C2E180JB12# 22pF ±2% GQM2195C2E200JB12#				11pF	±2%	GQM2195C2E110GB12#	
±5% GQM2195C2E120JB12# 13pF ±2% GQM2195C2E130GB12# ±5% GQM2195C2E130JB12# 15pF ±2% GQM2195C2E150GB12# ±5% GQM2195C2E150JB12# 16pF ±2% GQM2195C2E160GB12# ±5% GQM2195C2E160JB12# ±5% GQM2195C2E180JB12# ±5% GQM2195C2E180JB12# ±5% GQM2195C2E180JB12# ±5% GQM2195C2E200GB12# ±5% GQM2195C2E200JB12# 22pF ±2% GQM2195C2E200JB12#					±5%	GQM2195C2E110JB12#	L
13pF ±2% GQM2195C2E130GB12# ±5% GQM2195C2E130JB12# 15pF ±2% GQM2195C2E150GB12# ±5% GQM2195C2E150JB12# ±5% GQM2195C2E160GB12# ±5% GQM2195C2E160JB12# ±5% GQM2195C2E180JB12# ±5% GQM2195C2E180JB12# ±5% GQM2195C2E180JB12# ±5% GQM2195C2E200GB12# ±5% GQM2195C2E200JB12# 22pF ±2% GQM2195C2E20JB12#				12pF	±2%	GQM2195C2E120GB12#	
±5% GQM2195C2E130JB12# 15pF ±2% GQM2195C2E150GB12# ±5% GQM2195C2E150JB12# 16pF ±2% GQM2195C2E160GB12# ±5% GQM2195C2E160JB12# ±5% GQM2195C2E180GB12# ±5% GQM2195C2E180JB12# 20pF ±2% GQM2195C2E180JB12# 22pF ±2% GQM2195C2E200JB12# 22pF ±2% GQM2195C2E200JB12#					±5%	GQM2195C2E120JB12#	
15pF ±2% GQM2195C2E150GB12# ±5% GQM2195C2E150JB12# 16pF ±2% GQM2195C2E160GB12# ±5% GQM2195C2E160JB12# ±5% GQM2195C2E180GB12# ±5% GQM2195C2E180JB12# ±5% GQM2195C2E200GB12# ±5% GQM2195C2E200JB12# ±5% GQM2195C2E200JB12# 22pF ±2% GQM2195C2E220GB12#				13pF	±2%	GQM2195C2E130GB12#	
±5% GQM2195C2E150JB12# 16pF ±2% GQM2195C2E160GB12# ±5% GQM2195C2E160JB12# 18pF ±2% GQM2195C2E180GB12# ±5% GQM2195C2E180JB12# 20pF ±2% GQM2195C2E200GB12# ±5% GQM2195C2E200JB12# 22pF ±2% GQM2195C2E200GB12#					±5%	GQM2195C2E130JB12#	
±5% GQM2195C2E150JB12# 16pF ±2% GQM2195C2E160GB12# ±5% GQM2195C2E160JB12# 18pF ±2% GQM2195C2E180GB12# ±5% GQM2195C2E180JB12# 20pF ±2% GQM2195C2E200GB12# ±5% GQM2195C2E200JB12# 22pF ±2% GQM2195C2E200GB12#				15pF	±2%	GQM2195C2E150GB12#	
16pF ±2% GQM2195C2E160GB12# ±5% GQM2195C2E160JB12# 18pF ±2% GQM2195C2E180GB12# ±5% GQM2195C2E180JB12# 20pF ±2% GQM2195C2E200GB12# ±5% GQM2195C2E200JB12# 22pF ±2% GQM2195C2E220GB12#							
±5% GQM2195C2E160JB12# 18pF ±2% GQM2195C2E180GB12# ±5% GQM2195C2E180JB12# 20pF ±2% GQM2195C2E200GB12# ±5% GQM2195C2E200JB12# 22pF ±2% GQM2195C2E220GB12#				16pF			
18pF ±2% GQM2195C2E180GB12# ±5% GQM2195C2E180JB12# 20pF ±2% GQM2195C2E200GB12# ±5% GQM2195C2E200JB12# 22pF ±2% GQM2195C2E220GB12#							
±5% GQM2195C2E180JB12# 20pF ±2% GQM2195C2E200GB12# ±5% GQM2195C2E200JB12# 22pF ±2% GQM2195C2E220GB12#				18pF			
20pF ±2% GQM2195C2E200GB12# ±5% GQM2195C2E200JB12# 22pF ±2% GQM2195C2E220GB12#				. 00'			
±5% GQM2195C2E200JB12# 22pF ±2% GQM2195C2E220GB12#				20nF			
22pF ±2% GQM2195C2E220GB12#				Zupi			
				22n⊑			
							001

Т

max.

Rated

Voltage

1.35mm 500Vdc

TC

Code

COG

Cap.

1.8pF

Tol.

±0.1pF

±0.25pF

±0.1pF

Part Number

GQM22M5C2H1R8BB01#

GQM22M5C2H1R8CB01#

GQM22M5C2H2R0BB01#

±0.25pF GQM22M5C2H2R0CB01#

(→ **■** 2.0×1.25mm)

Γ ax.	Rated Voltage	TC Code	Cap.	Tol.	Part Number
ım	250Vdc	COG	22pF	±5%	GQM2195C2E220JB12#
			24pF	±2%	GQM2195C2E240GB12#
				±5%	GQM2195C2E240JB12#
			27pF	±2%	GQM2195C2E270GB12#
				±5%	GQM2195C2E270JB12#
			30pF	±2%	GQM2195C2E300GB12#
				±5%	GQM2195C2E300JB12#
			33pF	±2%	GQM2195C2E330GB12#
				±5%	GQM2195C2E330JB12#
			36pF	±2%	GQM2195C2E360GB12#
				±5%	GQM2195C2E360JB12#
			39pF	±2%	GQM2195C2E390GB12#
				±5%	GQM2195C2E390JB12#
			43pF	±2%	GQM2195C2E430GB12#
				±5%	GQM2195C2E430JB12#
			47pF	±2%	GQM2195C2E470GB12#
				±5%	GQM2195C2E470JB12#
			51pF	±2%	GQM2195C2E510GB12#
				±5%	GQM2195C2E510JB12#
			56pF	±2%	GQM2195C2E560GB12#
				±5%	GQM2195C2E560JB12#
			62pF	±2%	GQM2195C2E620GB12#
				±5%	GQM2195C2E620JB12#
			68pF	±2%	GQM2195C2E680GB12#
				±5%	GQM2195C2E680JB12#
			75pF	±2%	GQM2195C2E750GB12#
				±5%	GQM2195C2E750JB12#
			82pF	±2%	GQM2195C2E820GB12#
				±5%	GQM2195C2E820JB12#
			91pF	±2%	GQM2195C2E910GB12#
				±5%	GQM2195C2E910JB12#
			100pF	±2%	GQM2195C2E101GB12#
			±5%	GQM2195C2E101JB12#	

■ 2.8×2.8mm

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number	
1.35mm	500Vdc	COG	0.5pF	±0.1pF	GQM22M5C2HR50BB01#	
				±0.25pF	GQM22M5C2HR50CB01#	
			0.75pF	±0.1pF	GQM22M5C2HR75BB01#	
				±0.25pF	GQM22M5C2HR75CB01#	
			1.0pF	±0.1pF	GQM22M5C2H1R0BB01#	
				±0.25pF	GQM22M5C2H1R0CB01#	
			1.1pF	1.1pF	±0.1pF	GQM22M5C2H1R1BB01#
				±0.25pF	GQM22M5C2H1R1CB01#	
			1.2pF	±0.1pF	GQM22M5C2H1R2BB01#	
				±0.25pF	GQM22M5C2H1R2CB01#	
				1.3pF	±0.1pF	GQM22M5C2H1R3BB01#
				±0.25pF	GQM22M5C2H1R3CB01#	
				1.5pF	±0.1pF	GQM22M5C2H1R5BB01#
				±0.25pF	GQM22M5C2H1R5CB01#	
			1.6pF	±0.1pF	GQM22M5C2H1R6BB01#	
				±0.25pF	GQM22M5C2H1R6CB01#	

	±0.25pF	GQM22M5C2H2R0CB01#	
2.2pF	±0.1pF	GQM22M5C2H2R2BB01#	
	±0.25pF	GQM22M5C2H2R2CB01#	
2.4pF	±0.1pF	GQM22M5C2H2R4BB01#	
	±0.25pF	GQM22M5C2H2R4CB01#	
2.7pF	±0.1pF	GQM22M5C2H2R7BB01#	
	±0.25pF	GQM22M5C2H2R7CB01#	
3.0pF	±0.1pF	GQM22M5C2H3R0BB01#	
	±0.25pF	GQM22M5C2H3R0CB01#	
3.3pF	±0.1pF	GQM22M5C2H3R3BB01#	
	±0.25pF	GQM22M5C2H3R3CB01#	
3.6pF	±0.1pF	GQM22M5C2H3R6BB01#	
	±0.25pF	GQM22M5C2H3R6CB01#	
3.9pF	±0.1pF	GQM22M5C2H3R9BB01#	
	±0.25pF	GQM22M5C2H3R9CB01#	
4.0pF	±0.1pF	GQM22M5C2H4R0BB01#	
	±0.25pF	GQM22M5C2H4R0CB01#	
4.3pF	±0.1pF	GQM22M5C2H4R3BB01#	
	±0.25pF	GQM22M5C2H4R3CB01#	
4.7pF	±0.1pF	GQM22M5C2H4R7BB01#	
	±0.25pF	GQM22M5C2H4R7CB01#	
5.0pF	±0.1pF	GQM22M5C2H5R0BB01#	
	±0.25pF	GQM22M5C2H5R0CB01#	
5.1pF	±0.25pF	GQM22M5C2H5R1CB01#	
	±0.5pF	GQM22M5C2H5R1DB01#	
5.6pF	±0.25pF	GQM22M5C2H5R6CB01#	
	±0.5pF	GQM22M5C2H5R6DB01#	
6.0pF	±0.25pF	GQM22M5C2H6R0CB01#	
	±0.5pF	GQM22M5C2H6R0DB01#	
6.2pF	±0.25pF	GQM22M5C2H6R2CB01#	
	±0.5pF	GQM22M5C2H6R2DB01#	
6.8pF	±0.25pF	GQM22M5C2H6R8CB01#	
	±0.5pF	GQM22M5C2H6R8DB01#	
7.0pF	±0.25pF	GQM22M5C2H7R0CB01#	
	±0.5pF	GQM22M5C2H7R0DB01#	
7.5pF	±0.25pF	GQM22M5C2H7R5CB01#	
	±0.5pF	GQM22M5C2H7R5DB01#	
8.0pF	±0.25pF	GQM22M5C2H8R0CB01#	
	±0.5pF	GQM22M5C2H8R0DB01#	
8.2pF	±0.25pF	GQM22M5C2H8R2CB01#	
	±0.5pF	GQM22M5C2H8R2DB01#	
9.0pF	±0.25pF	GQM22M5C2H9R0CB01#	
	±0.5pF	GQM22M5C2H9R0DB01#	
9.1pF	±0.25pF	GQM22M5C2H9R1CB01#	
	±0.5pF	GQM22M5C2H9R1DB01#	
10pF	±2%	GQM22M5C2H100GB01#	
	±5%	GQM22M5C2H100JB01#	
11pF	±2%	GQM22M5C2H110GB01#	
	±5%	GQM22M5C2H110JB01#	
12pF	±2%	GQM22M5C2H120GB01#	
	. ==/		

GQM22M5C2H120JB01#



(→ **■** 2.8×2.8mm)

T max.	Rated Voltage	TC Code	Сар.	Tol.	Part Number	
1.35mm	500Vdc	COG	13pF	±2%	GQM22M5C2H130GB01#	
				±5%	GQM22M5C2H130JB01#	
			15pF	±2%	GQM22M5C2H150GB01#	
				±5%	GQM22M5C2H150JB01#	
			16pF	±2%	GQM22M5C2H160GB01#	
				±5%	GQM22M5C2H160JB01#	
			18pF	±2%	GQM22M5C2H180GB01#	
				±5%	GQM22M5C2H180JB01#	
			20pF	±2%	GQM22M5C2H200GB01#	
				±5%	GQM22M5C2H200JB01#	
			22pF	±2%	GQM22M5C2H220GB01#	
				±5%	GQM22M5C2H220JB01#	
			24pF	±2%	GQM22M5C2H240GB01#	
				±5%	GQM22M5C2H240JB01#	
			27pF	±2%	GQM22M5C2H270GB01#	
				±5%	GQM22M5C2H270JB01#	
			30pF	±2%	GQM22M5C2H300GB01#	
				±5%	GQM22M5C2H300JB01#	
			33pF	±2%	GQM22M5C2H330GB01#	
				±5%	GQM22M5C2H330JB01#	
			36pF	±2%	GQM22M5C2H360GB01#	
				±5%	GQM22M5C2H360JB01#	
			39pF	±2%	GQM22M5C2H390GB01#	
			40 5	±5%	GQM22M5C2H390JB01#	
			43pF	±2%	GQM22M5C2H430GB01#	
			47pF	±5% ±2%	GQM22M5C2H430JB01# GQM22M5C2H470GB01#	
			47 (01	±5%	GQM22M5C2H470JB01#	
			51pF	±2%	GQM22M5C2H510GB01#	
			отрі	±5%	GQM22M5C2H510JB01#	
			56pF	±2%	GQM22M5C2H560GB01#	
			оор.	±5%	GQM22M5C2H560JB01#	
			62pF	±2%	GQM22M5C2H620GB01#	
				±5%	GQM22M5C2H620JB01#	
			68pF	±2%	GQM22M5C2H680GB01#	
				±5%	GQM22M5C2H680JB01#	
			75pF	±2%	GQM22M5C2H750GB01#	
			·	±5%	GQM22M5C2H750JB01#	
			82pF	±2%	GQM22M5C2H820GB01#	
			•	±5%	GQM22M5C2H820JB01#	
			91pF	±2%	GQM22M5C2H910GB01#	
				±5%	GQM22M5C2H910JB01#	
			100pF	±2%	GQM22M5C2H101GB01#	
				±5%	GQM22M5C2H101JB01#	

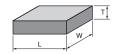


Chip Monolithic Ceramic Capacitors

Monolithic Microchip GMA Series

Capacitor for wire bonding. Can also be mounted directly to a frame!!





- 1 Excellent high frequency characteristics.
- 2 Ideal for bypass applications.
- 3 High density mounting is possible.



GMA Series High Dielectric Constant Type Part Number List

■ 0.38×0.38mm Ultra-compact

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number	
0.35mm	10Vdc	X7R	10000pF	±20%	GMA0D3R71A103MA01#	
		R	10000pF	±20%	GMA0D3R11A103MA01#	

■ 0.5×0.5mm Ultra-compact

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number
0.4mm	100Vdc	X7R	100pF	±20%	GMA05XR72A101MA01#
			150pF	±20%	GMA05XR72A151MA01#
			220pF	±20%	GMA05XR72A221MA01#
			330pF	±20%	GMA05XR72A331MA01#
			470pF	±20%	GMA05XR72A471MA01#
			680pF	±20%	GMA05XR72A681MA01#
			1000pF	±20%	GMA05XR72A102MA01#
	25Vdc	X7R	1500pF	±20%	GMA05XR71E152MA11#
			2200pF	±20%	GMA05XR71E222MA11#
			3300pF	±20%	GMA05XR71E332MA11#
			4700pF	±20%	GMA05XR71E472MA11#
		В	1500pF	±20%	GMA05XB31E152MA11#
			2200pF	±20%	GMA05XB31E222MA11#
			3300pF	±20%	GMA05XB31E332MA11#
			4700pF	±20%	GMA05XB31E472MA11#
	10Vdc	X7R	6800pF	±20%	GMA05XR71A682MA01#
			10000pF	±20%	GMA05XR71A103MA01#
			15000pF	±20%	GMA05XR71A153MA01#
			22000pF	±20%	GMA05XR71A223MA01#
		R	6800pF	±20%	GMA05XR11A682MA01#
			10000pF	±20%	GMA05XR11A103MA01#
			15000pF	±20%	GMA05XR11A153MA01#
			22000pF	±20%	GMA05XR11A223MA01#
		В	6800pF	±20%	GMA05XB11A682MA01#
			10000pF	±20%	GMA05XB11A103MA01#
			15000pF	±20%	GMA05XB11A153MA01#
			22000pF	±20%	GMA05XB11A223MA01#
	6.3Vdc	X5R	0.1µF	±20%	GMA05XR60J104ME12#
		В	0.1µF	±20%	GMA05XB30J104ME12#

■ 0.8×0.8mm

T max.	Rated Voltage	TC Code	Сар.	Tol.	Part Number	
0.6mm	100Vdc	X7R	1500pF	±20%	GMA085R72A152MA01#	
			2200pF	±20%	GMA085R72A222MA01#	
			3300pF	±20%	GMA085R72A332MA01#	
			4700pF	±20%	GMA085R72A472MA01#	
			6800pF	±20%	GMA085R72A682MA01#	
	25Vdc	X7R	10000pF	±20%	GMA085R71E103MA11#	
			15000pF	±20%	GMA085R71E153MA11#	
			22000pF	±20%	GMA085R71E223MA11#	
		В	10000pF	±20%	GMA085B31E103MA11#	
			15000pF	±20%	GMA085B31E153MA11#	
			22000pF	±20%	GMA085B31E223MA11#	

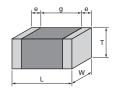
T max.	Rated Voltage	TC Code	Сар.	Tol.	Part Number
0.6mm	10Vdc	X7R	33000pF	±20%	GMA085R71A333MA01#
			47000pF	±20%	GMA085R71A473MA01#
			68000pF	±20%	GMA085R71A683MA01#
			0.1µF	±20%	GMA085R71A104MA01#
		R	33000pF	±20%	GMA085R11A333MA01#
			47000pF	±20%	GMA085R11A473MA01#
			68000pF	±20%	GMA085R11A683MA01#
			0.1µF	±20%	GMA085R11A104MA01#
		В	33000pF	±20%	GMA085B11A333MA01#
			47000pF	±20%	GMA085B11A473MA01#
			68000pF	±20%	GMA085B11A683MA01#
			0.1µF	±20%	GMA085B11A104MA01#
	6.3Vdc	X5R	0.47µF	±20%	GMA085R60J474ME12#
		В	0.47µF	±20%	GMA085B30J474ME12#

Chip Monolithic Ceramic Capacitors

For Bonding GMD Series

Capacitor for wire bonding. Compatible up to 0.6x0.3mm size!!





- 1 Compact product sizes of 0.6x0.3x0.3mm, 1.0x0.5x0.5mm
- 2 Can be mounted by wire bonding and AuSn soldering.
- 3 Ideal for mounting in optical communication related devices and IC packages.

GMD Series High Dielectric Constant Type Part Number List

■ 0.6×0.3mm Ultra-compact

	Part Number	Tol.	Cap.	TC Code	Rated Voltage	T max.
	GMD033R71E101KA01#	±10%	100pF	X7R	25Vdc	0.33mm
	GMD033R71E121KA01#	±10%	120pF			
	GMD033R71E151KA01#	±10%	150pF			
	GMD033R71E181KA01#	±10%	180pF			
	GMD033R71E221KA01#	±10%	220pF			
	GMD033R71E271KA01#	±10%	270pF			
	GMD033R71E331KA01#	±10%	330pF			
	GMD033R71E391KA01#	±10%	390pF			
	GMD033R71E471KA01#	±10%	470pF			
Τ	GMD033R71E561KA01#	±10%	560pF			
Τ	GMD033R71E681KA01#	±10%	680pF			
Τ	GMD033R71E821KA01#	±10%	820pF			
Τ	GMD033R71E102KA01#	±10%	1000pF			
	GMD033R71E122KA01#	±10%	1200pF			
	GMD033R71E152KA01#	±10%	1500pF			
	GMD033R11E101KA01#	±10%	100pF	R		
	GMD033R11E121KA01#	±10%	120pF			
Т	GMD033R11E151KA01#	±10%	150pF			
Т	GMD033R11E181KA01#	±10%	180pF			
T	GMD033R11E221KA01#	±10%	220pF			
	GMD033R11E271KA01#	±10%	270pF			
	GMD033R11E331KA01#	±10%	330pF			
	GMD033R11E391KA01#	±10%	390pF			
	GMD033R11E471KA01#	±10%	470pF			
	GMD033R11E561KA01#	±10%	560pF			
	GMD033R11E681KA01#	±10%	680pF			
	GMD033R11E821KA01#	±10%	820pF			
	GMD033R11E102KA01#	±10%	1000pF			
	GMD033R11E122KA01#	±10%	1200pF			
	GMD033R11E152KA01#	±10%	1500pF			
	GMD033B11E101KA01#	±10%	100pF	В		
	GMD033B11E121KA01#	±10%	120pF			
	GMD033B11E151KA01#	±10%	150pF			
	GMD033B11E181KA01#	±10%	180pF			
	GMD033B11E221KA01#	±10%	220pF			
T	GMD033B11E271KA01#	±10%	270pF			
T	GMD033B11E331KA01#	±10%	330pF			
T	GMD033B11E391KA01#	±10%	390pF			
T	GMD033B11E471KA01#	±10%	470pF			
	GMD033B11E561KA01#	±10%	560pF			

680pF

820pF

1000pF

1200pF

1500pF

1800pF

2200pF

2700pF

3300pF

1800pF

2200pF

2700pF

16Vdc

X7R

±10%

±10%

±10%

±10%

±10%

±10%

±10%

±10%

±10%

±10%

±10%

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number
0.33mm	16Vdc	R	3300pF	±10%	GMD033R11C332KA11#
		В	1800pF	±10%	GMD033B31C182KA11#
			2200pF	±10%	GMD033B31C222KA11#
			2700pF	±10%	GMD033B31C272KA11#
			3300pF	±10%	GMD033B31C332KA11#
	10Vdc	X7R	3900pF	±10%	GMD033R71A392KA01#
			4700pF	±10%	GMD033R71A472KA01#
			5600pF	±10%	GMD033R71A562KA01#
			6800pF	±10%	GMD033R71A682KA01#
			8200pF	±10%	GMD033R71A822KA01#
			10000pF	±10%	GMD033R71A103KA01#
		R	3900pF	±10%	GMD033R11A392KA01#
			4700pF	±10%	GMD033R11A472KA01#
			5600pF	±10%	GMD033R11A562KA01#
			6800pF	±10%	GMD033R11A682KA01#
			8200pF	±10%	GMD033R11A822KA01#
			10000pF	±10%	GMD033R11A103KA01#
		В	3900pF	±10%	GMD033B11A392KA01#
			4700pF	±10%	GMD033B11A472KA01#
			5600pF	±10%	GMD033B11A562KA01#
			6800pF	±10%	GMD033B11A682KA01#
			8200pF	±10%	GMD033B11A822KA01#
			10000pF	±10%	GMD033B11A103KA01#
	6.3Vdc	X5R	56000pF	±10%	GMD033R60J563KE11#
			68000pF	±10%	GMD033R60J683KE11#
			82000pF	±10%	GMD033R60J823KE11#
			0.1µF	±10%	GMD033R60J104KE11#
		В	56000pF	±10%	GMD033B30J563KE11#
			68000pF	±10%	GMD033B30J683KE11#
			82000pF	±10%	GMD033B30J823KE11#
			0.1µF	±10%	GMD033B30J104KE11#

■ 1.0×0.5mm

T max.	Rated Voltage	TC Code	Сар.	Tol.	Part Number
0.55mm	50Vdc	X7R	220pF	±10%	GMD155R71H221KA01#
			270pF	±10%	GMD155R71H271KA01#
			330pF	±10%	GMD155R71H331KA01#
			390pF	±10%	GMD155R71H391KA01#
			470pF	±10%	GMD155R71H471KA01#
			560pF	±10%	GMD155R71H561KA01#
			680pF	±10%	GMD155R71H681KA01#
			820pF	±10%	GMD155R71H821KA01#
			1000pF	±10%	GMD155R71H102KA01#
			1200pF	±10%	GMD155R71H122KA01#
			1500pF	±10%	GMD155R71H152KA01#
			1800pF	±10%	GMD155R71H182KA01#
			2200pF	±10%	GMD155R71H222KA01#
			2700pF	±10%	GMD155R71H272KA01#
			3300pF	±10%	GMD155R71H332KA01#
			3900pF	±10%	GMD155R71H392KA01#
			4700pF	±10%	GMD155R71H472KA01#
		R	220pF	±10%	GMD155R11H221KA01#

Part number # indicates the package specification code.



GMD033B11E681KA01#

GMD033B11E821KA01#

GMD033B11E102KA01#

GMD033B11E122KA01#

GMD033B11E152KA01#

GMD033R71C182KA11#

GMD033R71C222KA11#

GMD033R71C272KA11#

GMD033R71C332KA11# GMD033R11C182KA11#

GMD033R11C222KA11#

GMD033R11C272KA11#

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For General Purpose GRM Series

Capacitor Array GNM Series

Low ESL LL□ Series

High-Q Type GJM Series

Product Information

For General Purpose GRM Series

Capacitor Array GNM Series

Low ESL LL□ Series

High-Q Type GJM Series

GMD Series High Dielectric Constant Type Part Number List

	.0×0.5r	nm)			
T max.	Rated Voltage	TC Code	Сар.	Tol.	Part Number
0.55mm	50Vdc	R	270pF	±10%	GMD155R11H271KA01#
			330pF	±10%	GMD155R11H331KA01#
			390pF	±10%	GMD155R11H391KA01#
			470pF	±10%	GMD155R11H471KA01#
			560pF	±10%	GMD155R11H561KA01#
			680pF	±10%	GMD155R11H681KA01#
			820pF	±10%	GMD155R11H821KA01#
			1000pF	±10%	GMD155R11H102KA01#
			1200pF	±10%	GMD155R11H122KA01#
			1500pF	±10%	GMD155R11H152KA01#
			1800pF	±10%	GMD155R11H182KA01#
			2200pF	±10%	GMD155R11H222KA01#
			2700pF	±10%	GMD155R11H272KA01#
			3300pF	±10%	GMD155R11H332KA01#
			3900pF	±10%	GMD155R11H392KA01#
			4700pF	±10%	GMD155R11H472KA01#
		В	220pF	±10%	GMD155B11H221KA01#
			270pF	±10%	GMD155B11H271KA01#
			330pF	±10%	GMD155B11H331KA01#
			390pF	±10%	GMD155B11H391KA01#
			470pF	±10%	GMD155B11H471KA01#
			560pF	±10%	GMD155B11H561KA01#
			680pF	±10%	GMD155B11H681KA01#
			820pF	±10%	GMD155B11H821KA01#
			1000pF	±10%	GMD155B11H102KA01#
			1200pF	±10%	GMD155B11H122KA01#
			1500pF	±10%	GMD155B11H152KA01#
			1800pF	±10%	GMD155B11H182KA01#
			2200pF	±10%	GMD155B11H222KA01#
			2700pF	±10%	GMD155B11H272KA01#
			3300pF	±10%	GMD155B11H332KA01#
			3900pF	±10%	GMD155B11H392KA01#
			4700pF	±10%	GMD155B11H472KA01#
	25Vdc	X7R	5600pF	±10%	GMD155R71E562KA01#
			6800pF	±10%	GMD155R71E682KA01#
			8200pF	±10%	GMD155R71E822KA01#
			10000pF	±10%	GMD155R71E103KA01#
			12000pF	±10%	GMD155R71E123KA01#
			15000pF	±10%	GMD155R71E153KA01#
			18000pF	±10%	GMD155R71E183KA01#
			22000pF	±10%	GMD155R71E223KA01#
			27000pF	±10%	GMD155R71E273KA11#
			33000pF	±10%	GMD155R71E333KA11#
			39000pF	±10%	GMD155R71E393KA11#
			47000pF	±10%	GMD155R71E473KA11#
		R	5600pF	±10%	GMD155R11E562KA01#
			6800pF	±10%	GMD155R11E682KA01#
			8200pF	±10%	GMD155R11E822KA01#
			10000pF	±10%	GMD155R11E103KA01#
			12000pF	±10%	GMD155R11E123KA01#
			15000pF	±10%	GMD155R11E153KA01#
			18000pF	±10%	GMD155R11E183KA01#
			· ·		-
			22000pF	±10%	GMD155R11E223KA01#

T max.	Rated Voltage	TC Code	Сар.	Tol.	Part Number	
0.55mm	25Vdc	R	33000pF	±10%	GMD155R11E333KA11#	
			39000pF	±10%	GMD155R11E393KA11#	
			47000pF	±10%	GMD155R11E473KA11#	
		В	5600pF	±10%	GMD155B11E562KA01#	
			6800pF	±10%	GMD155B11E682KA01#	
			8200pF	±10%	GMD155B11E822KA01#	
			10000pF	±10%	GMD155B11E103KA01#	
			12000pF	±10%	GMD155B11E123KA01#	
			15000pF	±10%	GMD155B11E153KA01#	
			18000pF	±10%	GMD155B11E183KA01#	
			22000pF	±10%	GMD155B11E223KA01#	
			27000pF	±10%	GMD155B31E273KA11#	
			33000pF	±10%	GMD155B31E333KA11#	
			39000pF	±10%	GMD155B31E393KA11#	
			47000pF	±10%	GMD155B31E473KA11#	
	16Vdc	X7R	56000pF	±10%	GMD155R71C563KA11#	
			68000pF	±10%	GMD155R71C683KA11#	
			82000pF	±10%	GMD155R71C823KA11#	
			0.1µF	±10%	GMD155R71C104KA11#	
		R	56000pF	±10%	GMD155R11C563KA11#	
			68000pF	±10%	GMD155R11C683KA11#	
			82000pF	±10%	GMD155R11C823KA11#	
			0.1µF	±10%	GMD155R11C104KA11#	
		В	56000pF	±10%	GMD155B31C563KA11#	
			68000pF	±10%	GMD155B31C683KA11#	
			82000pF	±10%	GMD155B31C823KA11#	
			0.1µF	±10%	GMD155B31C104KA11#	
	10Vdc	X5R	0.12µF	±10%	GMD155R61A124KE12#	
			0.15µF	±10%	GMD155R61A154KE12#	
			0.18µF	±10%	GMD155R61A184KE12#	
			0.22µF	±10%	GMD155R61A224KE12#	
			0.27µF	±10%	GMD155R61A274KE11#	
			0.33µF	±10%	GMD155R61A334KE11#	
			0.39µF	±10%	GMD155R61A394KE11#	
			0.47µF	±10%	GMD155R61A474KE11#	
		В	0.12µF	±10%	GMD155B31A124KE12#	
			0.15µF	±10%	GMD155B31A154KE12#	
			0.18µF	±10%	GMD155B31A184KE12#	
			0.22µF	±10%	GMD155B31A224KE12#	
			0.27µF	±10%	GMD155B31A274KE11#	
			0.33µF	±10%	GMD155B31A334KE11#	
			0.39µF	±10%	GMD155B31A394KE11#	
			0.47µF	±10%	GMD155B31A474KE11#	

For General

⚠ Caution/Notice

⚠Caution

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⚠Caution

■ Storage and Operation Conditions

- 1. The performance of chip monolithic ceramic capacitors may be affected by the storage conditions.
 - 1-1. Store capacitors in the following conditions: Temperature of +5°C to +40°C and a Relative Humidity of 20% to 70%.
 - (1) Sunlight, dust, rapid temperature changes, corrosive gas atmosphere or high temperature and humidity conditions during storage may affect solderability and packaging performance. Please use product within six months of receipt.
 - (2) Please confirm solderability before using after six months. Store the capacitors without opening the original bag. Even if the storage period is short, do not exceed the specified atmospheric conditions.
- 1-2. Corrosive gas can react with the termination (external) electrodes or lead wires of capacitors, and result in poor solderability. Do not store the capacitors in an atmosphere consisting of corrosive gas (e.g., hydrogen sulfide, sulfur dioxide, chlorine, ammonia gas, etc.).
- 1-3. Due to moisture condensation caused by rapid humidity changes, or the photochemical change caused by direct sunlight on the terminal electrodes and/or the resin/epoxy coatings, the solderability and electrical performance may deteriorate. Do not store capacitors under direct sunlight or in high humidity conditions.

Rating

- 1. Temperature Dependent Characteristics
- 1. The electrical characteristics of the capacitor can change with temperature.
 - 1-1. For capacitors having larger temperature dependency, the capacitance may change with temperature changes.

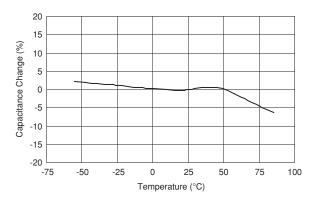
The following actions are recommended in order to ensure suitable capacitance values.

(1) Select a suitable capacitance for the operating temperature range.

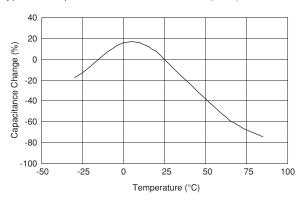
(2) The capacitance may change within the rated temperature.

When you use a high dielectric constant type capacitor in a circuit that needs a tight (narrow) capacitance tolerance (e.g., a time-constant circuit), please carefully consider the characteristics of these capacitors, such as their aging, voltage, and temperature characteristics. In addition, check capacitors using your actual appliances at the intended environment and operating conditions.

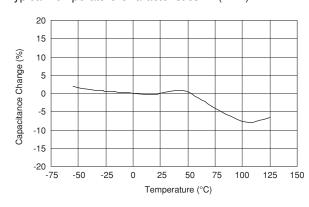
Typical Temperature Characteristics R6(X5R)



Typical Temperature Characteristics F5(Y5V)



Typical Temperature Characteristics R7(X7R)





Continued from the preceding page.

2. Measurement of Capacitance

- 1. Measure capacitance with the voltage and the frequency specified in the product specifications.
 - 1-1. The output voltage of the measuring equipment may decrease occasionally when capacitance is high. Please confirm whether a prescribed measured voltage is impressed to the capacitor.
- 1-2. The capacitance values of high dielectric constant type capacitors change depending on the AC voltage applied. Please consider the AC voltage characteristics when selecting a capacitor to be used in an AC circuit.

3. Applied Voltage

- 1. Do not apply a voltage to the capacitor that exceeds the rated voltage as called out in the specifications.
 - 1-1. Applied voltage between the terminals of a capacitor shall be less than or equal to the rated voltage.
 - (1) When AC voltage is superimposed on DC voltage, the zero-to-peak voltage shall not exceed the rated DC voltage. When AC voltage or pulse voltage is applied, the
 - peak-to-peak voltage shall not exceed the rated DC voltage.
 - (2) Abnormal voltages (surge voltage, static electricity, pulse voltage, etc.) shall not exceed the rated DC voltage.

Typical Voltage Applied to the DC Capacitor

DC Voltage	DC Voltage+AC	AC Voltage	Pulse Voltage
E	E O	E 0	E

(E: Maximum possible applied voltage.)

1-2. Influence of overvoltage

Overvoltage that is applied to the capacitor may result in an electrical short circuit caused by the breakdown of the internal dielectric layers. The time duration until breakdown depends on the applied voltage and the ambient temperature.

4. Applied Voltage and Self-heating Temperature

- 1. When the capacitor is used in a high-frequency voltage, pulse voltage, application, be sure to take into account self-heating may be caused by resistant factors of the capacitor.
 - 1-1. The load should be contained to the level such that when measuring at atmospheric temperature of 25°C, the product's self-heating remains below 20°C and surface temperature of the capacitor in the actual circuit remains within the maximum operating temperature.



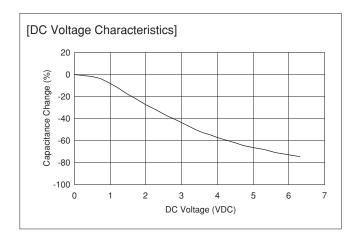


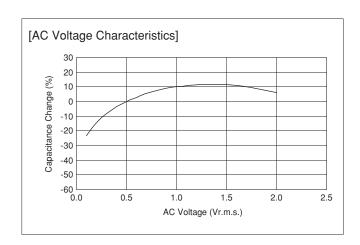
⚠Caution

Continued from the preceding page.

5. DC Voltage and AC Voltage Characteristics

- 1. The capacitance value of a high dielectric constant type capacitor changes depending on the DC voltage applied. Please consider the DC voltage characteristics when a capacitor is selected for use in a DC circuit.
 - 1-1. The capacitance of ceramic capacitors may change sharply depending on the applied voltage (see
 - Please confirm the following in order to secure the capacitance.
 - (1) Determine whether the capacitance change caused by the applied voltage is within the allowed range.
 - (2) In the DC voltage characteristics, the rate of capacitance change becomes larger as voltage increases, even if the applied voltage is below the rated voltage. When a high dielectric constant type capacitor is in a circuit that needs a tight (narrow) capacitance tolerance (e.g., a timeconstant circuit), please carefully consider the characteristics of these capacitors, such as their aging, voltage, and temperature characteristics. In addition, check capacitors using your actual appliances at the intended environment and operating conditions.
- 2. The capacitance values of high dielectric constant type capacitors change depending on the AC voltage applied. Please consider the AC voltage characteristics when selecting a capacitor to be used in an AC circuit.

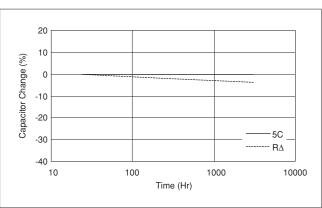




6. Capacitance Aging

1. The high dielectric constant type capacitors have the characteristic in which the capacitance value decreases with the passage of time.

When you use a high dielectric constant type capacitors in a circuit that needs a tight (narrow) capacitance tolerance (e.g., a time-constant circuit), please carefully consider the characteristics of these capacitors, such as their aging, voltage, and temperature characteristics. In addition, check capacitors using your actual appliances at the intended environment and operating conditions.

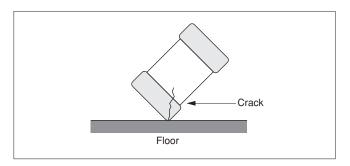


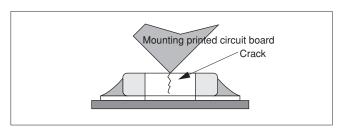


Continued from the preceding page.

7. Vibration and Shock

- 1. Please confirm the kind of vibration and/or shock, its condition, and any generation of resonance. Please mount the capacitor so as not to generate resonance, and do not allow any impact on the terminals.
- 2. Mechanical shock due to being dropped may cause damage or a crack in the dielectric material of the capacitor.
 - Do not use a dropped capacitor because the quality and reliability may be deteriorated.
- 3. When printed circuit boards are piled up or handled, the corner of another printed circuit board should not be allowed to hit the capacitor, in order to avoid a crack or other damage to the capacitor.

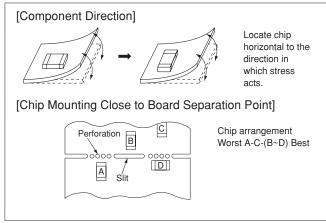




■ Soldering and Mounting

1. Mounting Position

- 1. Confirm the best mounting position and direction that minimizes the stress imposed on the capacitor during flexing or bending the printed circuit board.
 - 1-1. Choose a mounting position that minimizes the stress imposed on the chip during flexing or bending of the board.







⚠Caution

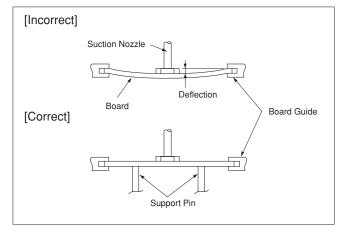
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2. Information before Mounting

- 1. Do not reuse capacitors that were removed from the equipment.
- 2. Confirm capacitance characteristics under actual applied voltage.
- 3. Confirm the mechanical stress under actual process and equipment use.
- 4. Confirm the rated capacitance, rated voltage and other electrical characteristics before assembly.
- 5. Prior to use, confirm the solderability of capacitors that were in long-term storage.
- 6. Prior to measuring capacitance, carry out a heat treatment for capacitors that were in long-term storage.
- 7. The use of Sn-Zn based solder will deteriorate the reliability of the MLCC.
 - Please contact our sales representative or product engineers on the use of Sn-Zn based solder in advance.

3. Maintenance of the Mounting (pick and place) Machine

- 1. Make sure that the following excessive forces are not applied to the capacitors.
 - 1-1. In mounting the capacitors on the printed circuit board, any bending force against them shall be kept to a minimum to prevent them from any bending damage or cracking. Please take into account the following precautions and recommendations for use in your process.
 - (1) Adjust the lowest position of the pickup nozzle so as not to bend the printed circuit board.
 - (2) Adjust the nozzle pressure within a static load of 1N to 3N during mounting.
- 2. Dirt particles and dust accumulated between the suction nozzle and the cylinder inner wall prevent the nozzle from moving smoothly. This imposes greater force upon the chip during mounting, causing cracked chips. Also, the locating claw, when worn out, imposes uneven forces on the chip when positioning, causing cracked chips. The suction nozzle and the locating claw must be maintained, checked and replaced periodically.







Continued from the preceding page.

4-1. Reflow Soldering

- 1. When sudden heat is applied to the components, the mechanical strength of the components will decrease because a sudden temperature change causes deformation inside the components. In order to prevent mechanical damage to the components, preheating is required for both the components and the PCB board. Preheating conditions are shown in table 1. It is required to keep the temperature differential between the solder and the component's surface (ΔT) as small as possible.
- 2. Solderability of tin plating termination chips might be deteriorated when a low temperature soldering profile where the peak solder temperature is below the melting point of tin is used. Please confirm the solderability of tin plated termination chips before use.
- 3. When components are immersed in solvent after mounting, be sure to maintain the temperature difference (ΔT) between the component and the solvent within the range shown in the table 1.

Table 1

Part Number	Temperature Differential
GRM02/03/15/18/21/31	
GJM02/03/15	
LLL15/18/21/31	ΔT≦190°C
LLR18	
GQM18/21	
GRM32/43/55	
LLA18/21/31	
LLM21/31	ΔT≦130°C
GNM	
GQM22	

Recommended Conditions

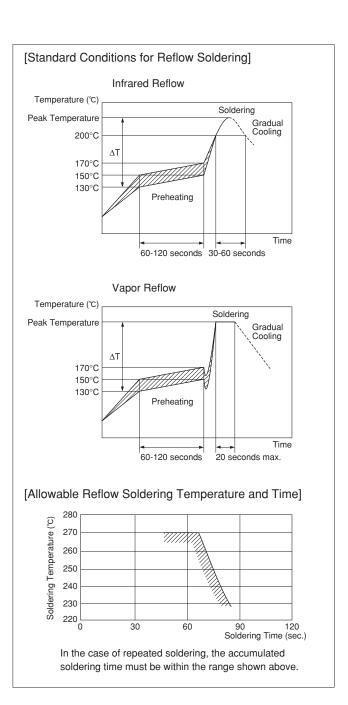
	Pb-Sn S	Lead Free Solder	
	Infrared Reflow Vapor Reflow		
Peak Temperature	230 to 250°C	230 to 240°C	240 to 260°C
Atmosphere	Air	Air	Air or N2

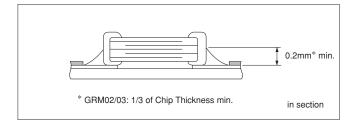
Pb-Sn Solder: Sn-37Pb Lead Free Solder: Sn-3.0Ag-0.5Cu

- 4. Optimum Solder Amount for Reflow Soldering
 - 4-1. Overly thick application of solder paste results in a excessive solder fillet height.
 - This makes the chip more susceptible to mechanical and thermal stress on the board and may cause the chips to crack.
 - 4-2. Too little solder paste results in a lack of adhesive strength on the outer electrode, which may result in chips breaking loose from the PCB.
 - 4-3. Make sure the solder has been applied smoothly to the end surface to a height of 0.2mm* min.

Inverting the PCB

Make sure not to impose any abnormal mechanical shocks to the PCB.





⚠Caution

Continued from the preceding page.

4-2. Flow Soldering

- 1. When sudden heat is applied to the components, the mechanical strength of the components will decrease because a sudden temperature change causes deformation inside the components. In order to prevent mechanical damage in the components, preheating should be required for both of the components and the PCB board.
 - Preheating conditions are shown in table 2. It is required to keep the temperature differential between the solder and the component's surface (ΔT) as small as possible.
- 2. Excessively long soldering time or high soldering temperature can result in leaching of the outer electrodes, causing poor adhesion or a reduction in capacitance value due to loss of contact between electrodes and end termination.
- 3. When components are immersed in solvent after mounting, be sure to maintain the temperature difference (ΔT) between the component and solvent within the range shown in the table 2.
- 4. Do not apply flow soldering to chips not listed in table 2.

Table 2

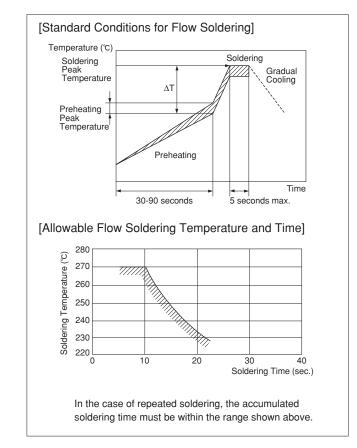
Part Number	Temperature Differential	
GRM18/21/31		
LLL21/31	ΔT≦150°C	
GQM18/21		

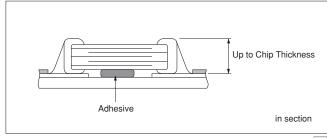
Recommended Conditions

	Pb-Sn Solder	Lead Free Solder
Preheating Peak Temperature	90 to 110°C	100 to 120°C
Soldering Peak Temperature	240 to 250°C	250 to 260°C
Atmosphere	Air	N ₂

Pb-Sn Solder: Sn-37Pb Lead Free Solder: Sn-3.0Ag-0.5Cu

- 5. Optimum Solder Amount for Flow Soldering
 - 5-1. The top of the solder fillet should be lower than the thickness of components. If the solder amount is excessive, the risk of cracking is higher during board bending or any other stressful condition.









Continued from the preceding page.

4-3. Correction with a Soldering Iron

- 1. When sudden heat is applied to the components when using a soldering iron, the mechanical strength of the components will decrease because the extreme temperature change can cause deformations inside the components. In order to prevent mechanical damage to the components, preheating is required for both the components and the PCB board. Preheating conditions (The "Temperature of the Soldering Iron Tip", "Preheating Temperature," "Temperature Differential" between the iron tip and the components and the PCB), should be within the conditions of table 3. It is required to keep the temperature differential between the soldering iron and the component surfaces (ΔT) as small as possible.
- 2. After soldering, do not allow the component/PCB to cool down rapidly.
- 3. The operating time for the re-working should be as short as possible. When re-working time is too long, it may cause solder leaching, in turn causing a reduction in the adhesive strength of the terminations.
- 4. Optimum solder amount when re-working with a soldering
 - 4-1. For sizes smaller than 0603, (GRM03/15/18, GJM03/15, GQM18), the top of the solder fillet should be lower than 2/3 of the thickness of the component or 0.5mm whichever is smaller. For 0805 and larger sizes, (GRM21/31/32/43/55, GQM21/22), the top of the solder fillet should be lower than 2/3 of the thickness of the component. If the solder amount is excessive, the risk of cracking is higher during board bending or under any other stressful condition.
 - 4-2. A soldering iron with a tip of ø3mm or smaller should be used. It is also necessary to keep the soldering iron from touching the components during the re-work.
 - 4-3. Solder wire with Ø0.5mm or smaller is required for soldering.

4-4. Leaded Component Insertion

1. If the PCB is flexed when leaded components (such as transformers and ICs) are being mounted, chips may crack and solder joints may break. Before mounting leaded components, support the PCB using backup pins or special jigs to prevent warping.

5. Washing

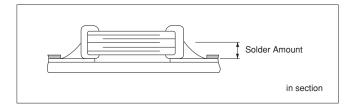
Excessive ultrasonic oscillation during cleaning can cause the PCBs to resonate, resulting in cracked chips or broken solder joints. Take note not to vibrate PCBs.

Table 3

Tuble 0					
Part Number	Temperature of Soldering Iron Tip	Preheating Temperature	Temperature Differential (∆T)	Atmosphere	
GRM03/15/18/21/31					
GJM03/15	350°C max.	150°C min.	ΔT≦190°C	Air	
GQM18/21					
GRM32/43/55	280°C max.	150°C min	^T<130°C	Air	
GQM22	200 G IIIax.	150 0 111111.	Δ1 3 130 C	All	

*Applicable for both Pb-Sn and Lead Free Solder.

Pb-Sn Solder: Sn-37Pb Lead Free Solder: Sn-3.0Ag-0.5Cu







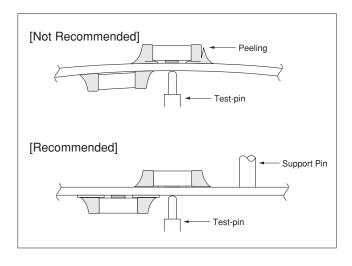
⚠Caution

Continued from the preceding page.

6. Electrical Test on Printed Circuit Board

- Confirm position of the support pin or specific jig, when inspecting the electrical performance of a capacitor after mounting on the printed circuit board.
 - 1-1. Avoid bending the printed circuit board by the pressure of a test pin, etc.
 - The thrusting force of the test probe can flex the PCB, resulting in cracked chips or open solder joints.

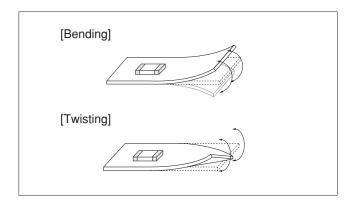
 Provide support pins on the back side of the PCB to prevent warping or flexing.
 - 1-2. Avoid vibration of the board by shock when a test pin contacts a printed circuit board.



7. Printed Circuit Board Cropping

- After mounting a capacitor on a printed circuit board, do not apply any stress to the capacitor that is caused by bending or twisting the board.
 - 1-1. In cropping the board, the stress as shown at right may cause the capacitor to crack.

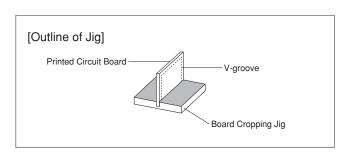
Try not to apply this type of stress to a capacitor.

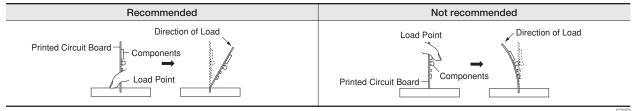


- 2. Ascertain of the cropping method for the printed circuit board in advance.
 - 2-1. Printed circuit board cropping shall be carried out by using a jig or an apparatus to prevent the mechanical stress that can occur to the board.
 - (1) Example of a suitable jig

Recommended example: the board should be pushed as close to the cropping jig as possible and from the back side of board in order to minimize the compressive stress applied to the capacitor.

Not recommended example: when the board is pushed at a point far from the cropping jig and from the front side of board as below, the capacitor may form a crack caused by the tensile stress applied to capacitor.







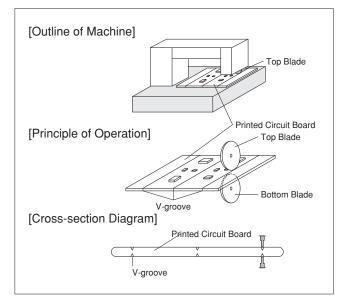
⚠Caution

Continued from the preceding page.

(2) Example of a suitable machine

An outline of a printed circuit board cropping machine is shown as follows. Along the lines with the V-grooves on the printed circuit board, the top and bottom blades are aligned to one another when cropping the board.

The misalignment of the position between top and bottom blades may cause the capacitor to crack.



Recommended		Not Recommended						
		Top-bottom Misalignment		Left-right Misalignment		Front-rear Misalignment		
	Top Blade		Top Blade		Top Blade		Top Blade	
	Bottom Blade		Bottom Blade		Bottom Blade		Bottom Blade	

■ Others

- 1. Under Operation of Equipment
 - 1-1. Do not touch a capacitor directly with bare hands during operation in order to avoid the danger of an electric shock.
 - 1-2. Do not allow the terminals of a capacitor to come in contact with any conductive objects (short-circuit). Do not expose a capacitor to a conductive liquid, including any acid or alkali solutions.
 - 1-3. Confirm the environment in which the equipment will operate is under the specified conditions.
 Do not use the equipment under the following environments.
 - (1) Being spattered with water or oil.
 - (2) Being exposed to direct sunlight.
 - (3) Being exposed to Ozone, ultraviolet rays or radiation.
 - (4) Being exposed to toxic gas (e.g., hydrogen sulfide, sulfur dioxide, chlorine, ammonia gas, etc.)
 - (5) Any vibrations or mechanical shocks exceeding the specified limits.
 - (6) Moisture condensing environments.
 - 1-4. Use damp proof countermeasures if using under any conditions that can cause condensation.

2. Others

- 2-1. In an Emergency
 - (1) If the equipment should generate smoke, fire or smell, immediately turn off or unplug the equipment.

- If the equipment is not turned off or unplugged, the hazards may be worsened by supplying continuous power.
- (2) In this type of situation, do not allow face and hands to come in contact with the capacitor or burns may be caused by the capacitor's high temperature.
- 2-2. Disposal of Waste

When capacitors are disposed, they must be burned or buried by an industrial waste vendor with the appropriate licenses.

- 2-3. Circuit Design
 - GRM, GCM, GMA/D, LLL/A/M, GQM, GJM, GNM Series capacitors in this catalog are not safety certified products.
- 2-4. Remarks

Failure to follow the cautions may result, worst case, in a short circuit and smoking when the product is used.

The above notices are for standard applications and conditions. Contact us when the products are used in special mounting conditions.

Select optimum conditions for operation as they determine the reliability of the product after assembly. The data herein are given in typical values, not guaranteed ratings.



Rating

- 1. Operating Temperature
 - 1. The operating temperature limit depends on the capacitor.
 - 1-1. Do not apply temperatures exceeding the upper operating temperature.
 - It is necessary to select a capacitor with a suitable rated temperature that will cover the operating temperature range.
 - It is also necessary to consider the temperature distribution in equipment and the seasonal temperature variable factor.
 - 1-2. Consider the self-heating factor of the capacitor. The surface temperature of the capacitor shall be the upper operating temperature or less when including the self-heating factors.
- 2. Atmosphere Surroundings (gaseous and liquid)

■ Soldering and Mounting

1. Restriction on the operating environment of capacitors.

susceptible to flexing stresses since they are

take land patterns and dimensions into consideration

to eliminate the possibility of excess solder fillet

1-1. Capacitors, when used in the above, unsuitable,

- operating environments may deteriorate due to the corrosion of the terminations and the penetration of moisture into the capacitor.
- 1-2. The same phenomenon as the above may occur when the electrodes or terminals of the capacitor are subject to moisture condensation.
- 1-3. The deterioration of characteristics and insulation resistance due to the oxidization or corrosion of terminal electrodes may result in breakdown when the capacitor is exposed to corrosive or volatile gases or solvents for long periods of time.
- 3. Piezo-electric Phenomenon
 - When using high dielectric constant type capacitors in AC or pulse circuits, the capacitor itself vibrates at specific frequencies and noise may be generated. Moreover, when the mechanical vibration or shock is added to the capacitor, noise may occur.

chip is different depend on PCB material and

- PCB Design
 Notice for Pattern Forms
 1-1. Unlike leaded components, chip components are
 1-2. There is a possibility of chip crack caused by PCB expansion/contraction with heat. Because stress for
 - mounted directly on the substrate.

 Structure. Especially metal PCB such as alumina has a greater risk of chip crack because of large thermal stresses than leaded components.

 Excess solder fillet height can multiply these stresses and cause chip cracking. When designing substrates,

 structure. Especially metal PCB such as alumina has a greater risk of chip crack because of large difference of thermal expansion coefficient. In case of chip below 0402 size, there is also the same possibility of crack with a single-layered glass epoxy

board.

Pattern Forms

height.

	Prohibited	Correct
Placing Close to Chassis	Chassis Solder (ground) Electrode Pattern	Solder Resist
Placing of Chip Components and Leaded Components	Lead Wire	Solder Resist
Placing of Leaded Components after Chip Component	Soldering Iron Lead Wire	Solder Resist
Lateral Mounting		Solder Resist





Continued from the preceding page.

2. Land Dimensions

2-1. A chip capacitor can be cracked due to the stress of PCB bending, etc. if the land area is larger than needed and has an excess amount of solder.

Please refer to the land dimensions in table 1 for flow soldering, table 2 for reflow soldering, table 3 for GNM & LLA, and table 4 for LLM.

Please confirm the suitable land dimension by evaluating the actual SET / PCB.

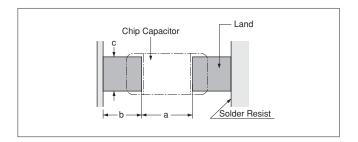


Table 1 Flow Soldering Method

Dimensions Part Number	Chip (L×W)	a	b	С
GRM18 GQM18	1.6×0.8	0.6 to 1.0	0.8 to 0.9	0.6 to 0.8
GRM21 GQM21	2.0×1.25	1.0 to 1.2	0.9 to 1.0	0.8 to 1.1
GRM31	3.2×1.6	2.2 to 2.6	1.0 to 1.1	1.0 to 1.4
LLL21	1.25×2.0	0.4 to 0.7	0.5 to 0.7	1.4 to 1.8
LLL31	1.6×3.2	0.6 to 1.0	0.8 to 0.9	2.6 to 2.8

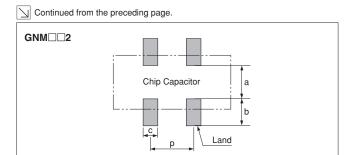
(in mm)

Table 2 Reflow Soldering Method

Dimensions Part Number	Chip (L×W)	a	b	С
GRM02 GJM02	0.4×0.2	0.16 to 0.2	0.12 to 0.18	0.2 to 0.23
GRM03 GJM03	0.6×0.3	0.2 to 0.3	0.2 to 0.35	0.2 to 0.4
GRM15	1.0×0.5 (within ±0.10)	0.3 to 0.5	0.35 to 0.45	0.4 to 0.6
GJM15	1.0×0.5 (±0.15/±0.20)	0.4 to 0.6	0.40 to 0.50	0.5 to 0.7
GRM18	1.6×0.8 (within ±0.10)	0.6 to 0.8	0.6 to 0.7	0.6 to 0.8
GQM18	1.6×0.8 (±0.15/±0.20)	0.7 to 0.9	0.7 to 0.8	0.8 to 1.0
GQM21	2.0×1.25	1.0 to 1.2	0.6 to 0.7	0.8 to 1.1
	2.0×1.25 (within ±1.0)	1.2	0.6	1.25
GRM21	2.0×1.25 (±0.15)	1.2	0.6 to 0.8	1.2 to 1.4
	2.0×1.25 (±0.20)	1.0 to 1.4	0.6 to 0.8	1.2 to 1.4
OPMO	3.2×1.6 (within ±0.20)	1.8 to 2.0	0.9 to 1.2	1.5 to 1.7
GRM31	3.2×1.6 (±0.30)	1.9 to 2.1	1.0 to 1.3	1.7 to 1.9
GRM32	3.2×2.5	2.0 to 2.4	1.0 to 1.2	1.8 to 2.3
GRM43	4.5×3.2	3.0 to 3.5	1.2 to 1.4	2.3 to 3.0
GRM55	5.7×5.0	4.0 to 4.6	1.4 to 1.6	3.5 to 4.8
LLL15	0.5×1.0	0.15 to 0.2	0.2 to 0.25	0.7 to 1.0
LLL18 LLR18	0.8×1.6	0.2 to 0.3	0.3 to 0.4	1.4 to 1.6
LLL21	1.25×2.0	0.4 to 0.6	0.4 to 0.5	1.4 to 1.8
LLL31	1.6×3.2	0.6 to 0.8	0.6 to 0.7	2.6 to 2.8
GQM22	2.8×2.8	2.2 to 2.5	0.8 to 1.0	1.9 to 2.3

(in mm





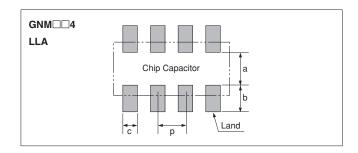


Table 3 GNM, LLA Series for Reflow Soldering Land Dimensions

Part Number	Dimensions (mm)							
Fait Nullibei	L	W	а	b	С	р		
GNM0M2	0.9	0.6	0.12 to 0.20*	0.35 to 0.40*	0.3	0.45		
GNM1M2	1.37	1.0	0.4 to 0.5	0.35 to 0.45	0.3 to 0.35	0.64		
GNM212	2.0	1.25	0.6 to 0.7	0.5 to 0.7	0.4 to 0.5	1.0		
GNM214	2.0	1.25	0.6 to 0.7	0.5 to 0.7	0.25 to 0.35	0.5		
GNM314	3.2	1.6	0.8 to 1.0	0.7 to 0.9	0.3 to 0.4	0.8		
LLA18	1.6	0.8	0.3 to 0.4	0.25 to 0.35	0.15 to 0.25	0.4		
LLA21	2.0	1.25	0.5 to 0.7	0.35 to 0.6	0.2 to 0.3	0.5		
LLA31	3.2	1.6	0.7 to 0.9	0.4 to 0.7	0.3 to 0.4	0.8		

* 0.82≦a+2b≦1.00

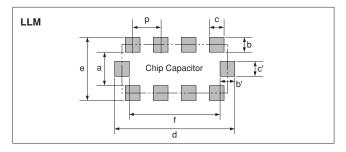


Table 4 LLM Series for Reflow Soldering Land Dimensions

Part Number				Dimensions (mm	1)		
Fait Number	а	b, b'	с, с'	d	е	f	р
LLM21	0.6 to 0.8	(0.3 to 0.5)	0.3	2.0 to 2.6	1.3 to 1.8	1.4 to 1.6	0.5
LLM31	1.0	(0.3 to 0.5)	0.4	3.2 to 3.6	1.6 to 2.0	2.6	0.8

b=(c-e)/2, b'=(d-f)/2

2. Adhesive Application

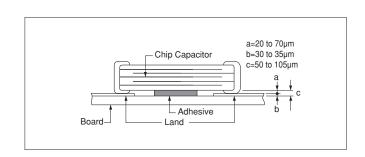
 Thin or insufficient adhesive can cause the chips to loosen or become disconnected during flow soldering.
 The amount of adhesive must be more than dimension c, shown in the drawing at right, to obtain the correct bonding strength.

The chip's electrode thickness and land thickness must also be taken into consideration.

- Low viscosity adhesive can cause chips to slip after mounting. The adhesive must have a viscosity of 5000Pa · s (500ps) min. (at 25°C).
- 3. Adhesive Coverage

Part Number	Adhesive Coverage*
GRM18, GQM18	0.05mg min.
GRM21, LLL21, GQM21	0.1mg min.
GRM31, LLL31	0.15mg min.





Continued from the preceding page.

3. Adhesive Curing

1. Insufficient curing of the adhesive can cause chips to disconnect during flow soldering and deterioration in the insulation resistance between the outer electrodes due to moisture absorption.

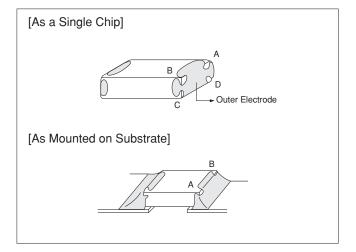
Control curing temperature and time in order to prevent insufficient hardening.

4. Flux Application

- 1. An excessive amount of flux generates a large quantity of flux gas, which can cause a deterioration of solderability, so apply flux thinly and evenly throughout. (A foaming system is generally used for flow soldering.)
- 2. Flux containing too high a percentage of halide may cause corrosion of the outer electrodes unless there is sufficient cleaning. Use flux with a halide content of 0.2%
- 3. Do not use strong acidic flux.
- 4. Do not use water-soluble *flux. (*Water-soluble flux can be defined as non-rosin type flux including wash-type flux and non-wash-type flux.)

5. Flow Soldering

 Set temperature and time to ensure that leaching of the outer electrode does not exceed 25% of the chip end area as a single chip (full length of the edge A-B-C-D shown at right) and 25% of the length A-B shown as mounted on substrate.



6. Washing

- 1. Please evaluate a capacitor using actual cleaning equipment and conditions to confirm the quality and select the applicable solvent.
- 2. Unsuitable cleaning solvent may leave residual flux or other foreign substances, causing deterioration of electrical characteristics and the reliability of the capacitors.
- 3. Select the proper cleaning conditions.
 - 3-1. Improper cleaning conditions (excessive or insufficient) may result in the deterioration of the performance of the capacitors.





Continued from the preceding page.

7. Coating

1. A crack may be caused in the capacitor due to the stress of the thermal contraction of the resin during curing

The stress is affected by the amount of resin and curing contraction.

Select a resin with low curing contraction.

The difference in the thermal expansion coefficient between a coating resin or a molding resin and the capacitor may cause the destruction and deterioration of the capacitor such as a crack or peeling, and lead to the deterioration of insulation resistance or dielectric breakdown.

Select a resin for which the thermal expansion coefficient is as close to that of the capacitor as possible.

A silicone resin can be used as an under-coating to buffer against the stress.

2. Select a resin that is less hygroscopic.

Using hygroscopic resins under high humidity conditions may cause the deterioration of the insulation resistance of a capacitor.

An epoxy resin can be used as a less hygroscopic resin.

8. Die Bonding/Wire Bonding (GMA or GMD Series)

- 1. Die Bonding of Capacitors
 - Use the following materials for the Brazing alloys: Au-Sn (80/20) 300 to 320 °C in N2 atmosphere
 - Mounting
 - (1) Control the temperature of the substrate so it matches the temperature of the brazing alloy.
 - (2) Place the brazing alloy on the substrate and place the capacitor on the alloy. Hold the capacitor and gently apply the load. Be sure to complete the operation within 1 minute.

2. Wire Bonding

• Wire

Gold wire: 25 micro m (0.001 inch) diameter

- Bonding
 - (1) Thermo compression, ultrasonic ball bonding.
 - (2) Required stage temperature: 150 to 200 °C
 - (3) Required wedge or capillary weight: 0.2N to 0.5N
 - (4) Bond the capacitor and base substrate or other devices with gold wire.

Others

- 1. Transportation
 - 1. The performance of a capacitor may be affected by the conditions during transportation.
 - 1-1. The capacitors shall be protected against excessive temperature, humidity and mechanical force during transportation.
 - (1) Climatic condition
 - low air temperature: -40°C
 - change of temperature air/air: -25°C/+25°C
 - · low air pressure: 30 kPa
 - change of air pressure: 6 kPa/min.
 - (2) Mechanical condition

Transportation shall be done in such a way that the boxes are not deformed and forces are not directly passed on to the inner packaging.

- 1-2. Do not apply excessive vibration, shock, and pressure to the capacitor.
 - (1) When excessive mechanical shock or pressure is applied to a capacitor, chipping or cracking may occur in the ceramic body of the capacitor.
 - (2) When the sharp edge of an air driver, a soldering iron, tweezers, a chassis, etc. impacts strongly on the surface of the capacitor, the capacitor may crack and short-circuit.
- 1-3. Do not use a capacitor to which excessive shock was applied by dropping, etc. A capacitor dropped accidentally during processing may be damaged.



MEMO



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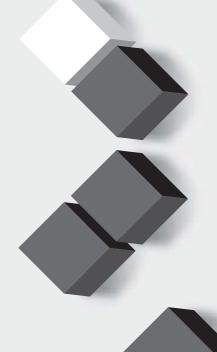
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Chip Monolithic Ceramic Capacitors (Medium Voltage)

Temperature Compensating Type GRM Series (250Vdc min.)

Features

- 1. Low-loss and suitable for high frequency circuits
- 2. Murata's original internal electrode structure provides high flash-over voltage.
- 3. A new monolithic structure for small, surfacemountable devices capable of operating at high voltage levels
- 4. Sn-plated external electrodes provides good solderability.
- 5. Use the GRM21/31 type with flow or reflow soldering, and other types with reflow soldering only.

Applications

Ideal for use on high frequency pulse circuits such as snubber circuits for switching power supplies, DC-DC converters, ballasts (inverter fluorescent lamps), etc.

Do not use these products in any Automotive Power train or Safety equipment including Battery chargers for Electric Vehicles and Plug-in Hybrids. Only Murata products clearly stipulated as "for Automotive use" can be used for automobile applications such as Power train and Safety equipment.

g min. 2.0 ±0.2 1.25 ±0.2 3.2 ±0.2 1.5* 4.5 ±0.3 2.0 ±0.2 2.9 2.2 3.2

GRM55D	3.7 ±0.4	5.0 ±0.4	2.0 +0,-0.3		
* GRM31A7H3	D GRM32A	AZLIAD GE	RM32B7LI3D+	1 8mm n	nin

C0G Characteristics

Part Number	Rated Voltage	TC Code (Standard)	Capacitance	Length L (mm)	Width W (mm)	Thickness T max. (mm)	Electrode g min.	Electrode e
GRM21A5C2E100JW01D	250Vdc	C0G (EIA)	10pF±5%	2	1.25	1	0.7mm	0.3mm min.
GRM21A5C2E120JW01D	250Vdc	C0G (EIA)	12pF±5%	2	1.25	1	0.7mm	0.3mm min.
GRM21A5C2E150JW01D	250Vdc	C0G (EIA)	15pF±5%	2	1.25	1	0.7mm	0.3mm min.
GRM21A5C2E180JW01D	250Vdc	C0G (EIA)	18pF±5%	2	1.25	1	0.7mm	0.3mm min.
GRM21A5C2E220JW01D	250Vdc	C0G (EIA)	22pF±5%	2	1.25	1	0.7mm	0.3mm min.
GRM21A5C2E270JW01D	250Vdc	C0G (EIA)	27pF±5%	2	1.25	1	0.7mm	0.3mm min.
GRM21A5C2E330JW01D	250Vdc	C0G (EIA)	33pF±5%	2	1.25	1	0.7mm	0.3mm min.
GRM21A5C2E390JW01D	250Vdc	C0G (EIA)	39pF±5%	2	1.25	1	0.7mm	0.3mm min.
GRM21A5C2E470JW01D	250Vdc	C0G (EIA)	47pF±5%	2	1.25	1	0.7mm	0.3mm min.
GRM21A5C2E560JW01D	250Vdc	C0G (EIA)	56pF±5%	2	1.25	1	0.7mm	0.3mm min.
GRM21A5C2E680JW01D	250Vdc	C0G (EIA)	68pF±5%	2	1.25	1	0.7mm	0.3mm min.
GRM21A5C2E820JW01D	250Vdc	C0G (EIA)	82pF±5%	2	1.25	1	0.7mm	0.3mm min.
GRM21A5C2E101JW01D	250Vdc	C0G (EIA)	100pF±5%	2	1.25	1	0.7mm	0.3mm min.
GRM21A5C2E121JW01D	250Vdc	C0G (EIA)	120pF±5%	2	1.25	1	0.7mm	0.3mm min.
GRM21A5C2E151JW01D	250Vdc	C0G (EIA)	150pF±5%	2	1.25	1	0.7mm	0.3mm min.
GRM21A5C2E181JW01D	250Vdc	C0G (EIA)	180pF±5%	2	1.25	1	0.7mm	0.3mm min.
GRM21A5C2E221JW01D	250Vdc	C0G (EIA)	220pF±5%	2	1.25	1	0.7mm	0.3mm min.
GRM21A5C2E271JW01D	250Vdc	C0G (EIA)	270pF±5%	2	1.25	1	0.7mm	0.3mm min.
GRM21A5C2E331JW01D	250Vdc	C0G (EIA)	330pF±5%	2	1.25	1	0.7mm	0.3mm min.
GRM31A5C2J100JW01D	630Vdc	C0G (EIA)	10pF±5%	3.2	1.6	1	1.5mm	0.3mm min.
GRM31A5C2J120JW01D	630Vdc	C0G (EIA)	12pF±5%	3.2	1.6	1	1.5mm	0.3mm min.
GRM31A5C2J150JW01D	630Vdc	C0G (EIA)	15pF±5%	3.2	1.6	1	1.5mm	0.3mm min.
GRM31A5C2J180JW01D	630Vdc	C0G (EIA)	18pF±5%	3.2	1.6	1	1.5mm	0.3mm min.





Continued from the preceding page.

Part Number	Rated Voltage	TC Code (Standard)	Capacitance	Length L (mm)	Width W (mm)	Thickness T max. (mm)	Electrode g min.	Electrode e
GRM31A5C2J220JW01D	630Vdc	C0G (EIA)	22pF±5%	3.2	1.6	1	1.5mm	0.3mm min.
GRM31A5C2J270JW01D	630Vdc	C0G (EIA)	27pF±5%	3.2	1.6	1	1.5mm	0.3mm min.
GRM31A5C2J330JW01D	630Vdc	C0G (EIA)	33pF±5%	3.2	1.6	1	1.5mm	0.3mm min.
GRM31A5C2J390JW01D	630Vdc	C0G (EIA)	39pF±5%	3.2	1.6	1	1.5mm	0.3mm min.
GRM31A5C2J470JW01D	630Vdc	C0G (EIA)	47pF±5%	3.2	1.6	1	1.5mm	0.3mm min.
GRM31A5C2J560JW01D	630Vdc	C0G (EIA)	56pF±5%	3.2	1.6	1	1.5mm	0.3mm min.
GRM31A5C2J680JW01D	630Vdc	C0G (EIA)	68pF±5%	3.2	1.6	1	1.5mm	0.3mm min.
GRM31A5C2J820JW01D	630Vdc	C0G (EIA)	82pF±5%	3.2	1.6	1	1.5mm	0.3mm min.
GRM31A5C2J101JW01D	630Vdc	C0G (EIA)	100pF±5%	3.2	1.6	1	1.5mm	0.3mm min.
GRM31A5C2J121JW01D	630Vdc	C0G (EIA)	120pF±5%	3.2	1.6	1	1.5mm	0.3mm min.
GRM31A5C2J151JW01D	630Vdc	C0G (EIA)	150pF±5%	3.2	1.6	1	1.5mm	0.3mm min.
GRM31A5C2J181JW01D	630Vdc	C0G (EIA)	180pF±5%	3.2	1.6	1	1.5mm	0.3mm min.
GRM31A5C2J221JW01D	630Vdc	C0G (EIA)	220pF±5%	3.2	1.6	1	1.5mm	0.3mm min.
GRM31A5C2J271JW01D	630Vdc	C0G (EIA)	270pF±5%	3.2	1.6	1	1.5mm	0.3mm min.
GRM31A5C2J331JW01D	630Vdc	C0G (EIA)	330pF±5%	3.2	1.6	1	1.5mm	0.3mm min.
GRM31A5C2J391JW01D	630Vdc	C0G (EIA)	390pF±5%	3.2	1.6	1	1.5mm	0.3mm min.
GRM31A5C2J471JW01D	630Vdc	C0G (EIA)	470pF±5%	3.2	1.6	1	1.5mm	0.3mm min.
GRM31A5C2J561JW01D	630Vdc	C0G (EIA)	560pF±5%	3.2	1.6	1	1.5mm	0.3mm min.
GRM31B5C2J681JW01L	630Vdc	C0G (EIA)	680pF±5%	3.2	1.6	1.25	1.5mm	0.3mm min.
GRM31B5C2J821JW01L	630Vdc	C0G (EIA)	820pF±5%	3.2	1.6	1.25	1.5mm	0.3mm min.
GRM31B5C2J102JW01L	630Vdc	C0G (EIA)	1000pF±5%	3.2	1.6	1.25	1.5mm	0.3mm min.
GRM31A5C3A100JW01D	1000Vdc	C0G (EIA)	10pF±5%	3.2	1.6	1	1.5mm	0.3mm min.
GRM31A5C3A120JW01D	1000Vdc	C0G (EIA)	12pF±5%	3.2	1.6	1	1.5mm	0.3mm min.
GRM31A5C3A150JW01D	1000Vdc	C0G (EIA)	15pF±5%	3.2	1.6	1	1.5mm	0.3mm min.
GRM31A5C3A180JW01D	1000Vdc	C0G (EIA)	18pF±5%	3.2	1.6	1	1.5mm	0.3mm min.
GRM31A5C3A220JW01D	1000Vdc	C0G (EIA)	22pF±5%	3.2	1.6	1	1.5mm	0.3mm min.
GRM31A5C3A270JW01D	1000Vdc	C0G (EIA)	27pF±5%	3.2	1.6	1	1.5mm	0.3mm min.
GRM31A5C3A330JW01D	1000Vdc	C0G (EIA)	33pF±5%	3.2	1.6	1	1.5mm	0.3mm min.
GRM31A5C3A390JW01D	1000Vdc	C0G (EIA)	39pF±5%	3.2	1.6	1	1.5mm	0.3mm min.
GRM31A5C3A470JW01D	1000Vdc	C0G (EIA)	47pF±5%	3.2	1.6	1	1.5mm	0.3mm min.
GRM31A5C3A560JW01D	1000Vdc	C0G (EIA)	56pF±5%	3.2	1.6	1	1.5mm	0.3mm min.
GRM31A5C3A680JW01D	1000Vdc	C0G (EIA)	68pF±5%	3.2	1.6	1	1.5mm	0.3mm min.
GRM31A5C3A820JW01D	1000Vdc	C0G (EIA)	82pF±5%	3.2	1.6	1	1.5mm	0.3mm min.
GRM31A5C3A101JW01D	1000Vdc	C0G (EIA)	100pF±5%	3.2	1.6	1	1.5mm	0.3mm min.
GRM31A5C3A121JW01D	1000Vdc	C0G (EIA)	120pF±5%	3.2	1.6	1	1.5mm	0.3mm min.
GRM31A5C3A151JW01D	1000Vdc	C0G (EIA)	150pF±5%	3.2	1.6	1	1.5mm	0.3mm min.
GRM31A5C3A181JW01D	1000Vdc	C0G (EIA)	180pF±5%	3.2	1.6	1	1.5mm	0.3mm min.
GRM31A5C3A221JW01D	1000Vdc	C0G (EIA)	220pF±5%	3.2	1.6	1	1.5mm	0.3mm min.

U2J Characteristics

Part Number	Rated Voltage	TC Code (Standard)	Capacitance	Length L (mm)	Width W (mm)	Thickness T max. (mm)	Electrode g min.	Electrode e
GRM21A7U2E101JW31D	250Vdc	U2J (EIA)	100pF±5%	2	1.25	1	0.7mm	0.3mm min.
GRM21A7U2E121JW31D	250Vdc	U2J (EIA)	120pF±5%	2	1.25	1	0.7mm	0.3mm min.
GRM21A7U2E151JW31D	250Vdc	U2J (EIA)	150pF±5%	2	1.25	1	0.7mm	0.3mm min.
GRM21A7U2E181JW31D	250Vdc	U2J (EIA)	180pF±5%	2	1.25	1	0.7mm	0.3mm min.
GRM21A7U2E221JW31D	250Vdc	U2J (EIA)	220pF±5%	2	1.25	1	0.7mm	0.3mm min.
GRM21A7U2E271JW31D	250Vdc	U2J (EIA)	270pF±5%	2	1.25	1	0.7mm	0.3mm min.
GRM21A7U2E331JW31D	250Vdc	U2J (EIA)	330pF±5%	2	1.25	1	0.7mm	0.3mm min.
GRM21A7U2E391JW31D	250Vdc	U2J (EIA)	390pF±5%	2	1.25	1	0.7mm	0.3mm min.
GRM21A7U2E471JW31D	250Vdc	U2J (EIA)	470pF±5%	2	1.25	1	0.7mm	0.3mm min.
GRM21A7U2E561JW31D	250Vdc	U2J (EIA)	560pF±5%	2	1.25	1	0.7mm	0.3mm min.
GRM21A7U2E681JW31D	250Vdc	U2J (EIA)	680pF±5%	2	1.25	1	0.7mm	0.3mm min.
GRM21A7U2E821JW31D	250Vdc	U2J (EIA)	820pF±5%	2	1.25	1	0.7mm	0.3mm min.
GRM21A7U2E102JW31D	250Vdc	U2J (EIA)	1000pF±5%	2	1.25	1	0.7mm	0.3mm min.

Part Number	Rated Voltage	TC Code (Standard)	Capacitance	Length L (mm)	Width W (mm)	Thickness T max. (mm)	Electrode g min.	Electrode e
GRM21A7U2E122JW31D	250Vdc	U2J (EIA)	1200pF±5%	2	1.25	1	0.7mm	0.3mm min.
GRM21A7U2E152JW31D	250Vdc	U2J (EIA)	1500pF±5%	2	1.25	1	0.7mm	0.3mm min.
GRM21A7U2E182JW31D	250Vdc	U2J (EIA)	1800pF±5%	2	1.25	1	0.7mm	0.3mm min.
GRM21A7U2E222JW31D	250Vdc	U2J (EIA)	2200pF±5%	2	1.25	1	0.7mm	0.3mm min.
GRM21B7U2E272JW32L	250Vdc	U2J (EIA)	2700pF±5%	2	1.25	1.45	0.7mm	0.3mm min.
GRM31A7U2E272JW31D	250Vdc	U2J (EIA)	2700pF±5%	3.2	1.6	1	1.5mm	0.3mm min.
GRM21B7U2E332JW32L	250Vdc	U2J (EIA)	3300pF±5%	2	1.25	1.45	0.7mm	0.3mm min.
GRM31A7U2E332JW31D	250Vdc	U2J (EIA)	3300pF±5%	3.2	1.6	1	1.5mm	0.3mm min.
GRM21B7U2E392JW32L	250Vdc	U2J (EIA)	3900pF±5%	2	1.25	1.45	0.7mm	0.3mm min.
GRM31A7U2E392JW31D	250Vdc	U2J (EIA)	3900pF±5%	3.2	1.6	1	1.5mm	0.3mm min.
GRM21B7U2E472JW32L	250Vdc	U2J (EIA)	4700pF±5%	2	1.25	1.45	0.7mm	0.3mm min.
GRM31A7U2E472JW31D	250Vdc	U2J (EIA)	4700pF±5%	3.2	1.6	1	1.5mm	0.3mm min.
GRM21B7U2E562JW32L	250Vdc	U2J (EIA)	5600pF±5%	2	1.25	1.45	0.7mm	0.3mm min.
GRM31A7U2E562JW31D	250Vdc	U2J (EIA)	5600pF±5%	3.2	1.6	1	1.5mm	0.3mm min.
GRM31B7U2E682JW31L	250Vdc	U2J (EIA)	6800pF±5%	3.2	1.6	1.25	1.5mm	0.3mm min.
GRM31B7U2E822JW31L	250Vdc	U2J (EIA)	8200pF±5%	3.2	1.6	1.25	1.5mm	0.3mm min.
GRM31B7U2E103JW31L	250Vdc	U2J (EIA)	10000pF±5%	3.2	1.6	1.25	1.5mm	0.3mm min.
GRM31A7U2J100JW31D	630Vdc	U2J (EIA)	10pF±5%	3.2	1.6	1	1.5mm	0.3mm min.
GRM31A7U2J120JW31D	630Vdc	U2J (EIA)	12pF±5%	3.2	1.6	1	1.5mm	0.3mm min.
GRM31A7U2J150JW31D	630Vdc	U2J (EIA)	15pF±5%	3.2	1.6	1	1.5mm	0.3mm min.
GRM31A7U2J180JW31D	630Vdc	U2J (EIA)	18pF±5%	3.2	1.6	1	1.5mm	0.3mm min.
GRM31A7U2J220JW31D	630Vdc	U2J (EIA)	22pF±5%	3.2	1.6	1	1.5mm	0.3mm min.
GRM31A7U2J270JW31D	630Vdc	U2J (EIA)	27pF±5%	3.2	1.6	1	1.5mm	0.3mm min.
GRM31A7U2J330JW31D	630Vdc	U2J (EIA)	33pF±5%	3.2	1.6	1	1.5mm	0.3mm min.
GRM31A7U2J390JW31D	630Vdc	U2J (EIA)	39pF±5%	3.2	1.6	1	1.5mm	0.3mm min.
GRM31A7U2J470JW31D	630Vdc	U2J (EIA)	47pF±5%	3.2	1.6	1	1.5mm	0.3mm min.
GRM31A7U2J560JW31D	630Vdc	U2J (EIA)	56pF±5%	3.2	1.6	1	1.5mm	0.3mm min.
GRM31A7U2J680JW31D	630Vdc	U2J (EIA)	68pF±5%	3.2	1.6	1	1.5mm	0.3mm min.
GRM31A7U2J820JW31D	630Vdc	U2J (EIA)	82pF±5%	3.2	1.6	1	1.5mm	0.3mm min.
GRM31A7U2J101JW31D	630Vdc	U2J (EIA)	100pF±5%	3.2	1.6	1	1.5mm	0.3mm min.
GRM31A7U2J121JW31D	630Vdc	U2J (EIA)	120pF±5%	3.2	1.6	1	1.5mm	0.3mm min.
GRM31A7U2J151JW31D	630Vdc	U2J (EIA)	150pF±5%	3.2	1.6	1	1.5mm	0.3mm min.
GRM31A7U2J181JW31D	630Vdc	U2J (EIA)	180pF±5%	3.2	1.6	1	1.5mm	0.3mm min.
GRM31A7U2J221JW31D	630Vdc	U2J (EIA)	220pF±5%	3.2	1.6	1	1.5mm	0.3mm min.
GRM31A7U2J271JW31D	630Vdc	U2J (EIA)	270pF±5%	3.2	1.6	1	1.5mm	0.3mm min.
GRM31A7U2J331JW31D	630Vdc	U2J (EIA)	330pF±5%	3.2	1.6	1	1.5mm	0.3mm min.
GRM31A7U2J391JW31D			'					
	630Vdc	U2J (EIA)	390pF±5%	3.2	1.6	1	1.5mm	0.3mm min.
GRM31A7U2J471JW31D	630Vdc	U2J (EIA)	470pF±5%	3.2	1.6	1	1.5mm	0.3mm min.
GRM31A7U2J561JW31D	630Vdc	U2J (EIA)	560pF±5%	3.2	1.6	1	1.5mm	0.3mm min.
GRM31A7U2J681JW31D	630Vdc	U2J (EIA)	680pF±5%	3.2	1.6	1	1.5mm	0.3mm min.
GRM31A7U2J821JW31D	630Vdc	U2J (EIA)	820pF±5%	3.2	1.6	1	1.5mm	0.3mm min.
GRM31A7U2J102JW31D	630Vdc	U2J (EIA)	1000pF±5%	3.2	1.6	1	1.5mm	0.3mm min.
GRM31A7U2J122JW31D	630Vdc	U2J (EIA)	1200pF±5%	3.2	1.6	1	1.5mm	0.3mm min.
GRM32A7U2J122JW31D	630Vdc	U2J (EIA)	1200pF±5%	3.2	2.5	1	1.5mm	0.3mm min.
GRM31A7U2J152JW31D	630Vdc	U2J (EIA)	1500pF±5%	3.2	1.6	1	1.5mm	0.3mm min.
GRM32A7U2J152JW31D	630Vdc	U2J (EIA)	1500pF±5%	3.2	2.5	1	1.5mm	0.3mm min.
GRM31A7U2J182JW31D	630Vdc	U2J (EIA)	1800pF±5%	3.2	1.6	1	1.5mm	0.3mm min.
GRM32A7U2J182JW31D	630Vdc	U2J (EIA)	1800pF±5%	3.2	2.5	1	1.5mm	0.3mm min.
GRM31A7U2J222JW31D	630Vdc	U2J (EIA)	2200pF±5%	3.2	1.6	1	1.5mm	0.3mm min.
GRM32A7U2J222JW31D	630Vdc	U2J (EIA)	2200pF±5%	3.2	2.5	1	1.5mm	0.3mm min.
GRM31B7U2J272JW31L	630Vdc	U2J (EIA)	2700pF±5%	3.2	1.6	1.25	1.5mm	0.3mm min.
GRM31B7U2J332JW31L	630Vdc	U2J (EIA)	3300pF±5%	3.2	1.6	1.25	1.5mm	0.3mm min.
GRM31C7U2J392JW32L	630Vdc	U2J (EIA)	3900pF±5%	3.2	1.6	1.8	1.5mm	0.3mm min.
GRM31C7U2J472JW32L	630Vdc	U2J (EIA)	4700pF±5%	3.2	1.6	1.8	1.5mm	0.3mm min.
GRM32B7U2J562JW31L	630Vdc	U2J (EIA)	5600pF±5%	3.2	2.5	1.25	1.5mm	0.3mm min.
GRM32Q7U2J682JW31L	630Vdc	U2J (EIA)	6800pF±5%	3.2	2.5	1.5	1.5mm	0.3mm min.
GRM32D7U2J822JW31L	630Vdc	U2J (EIA)	8200pF±5%	3.2	2.5	2	1.5mm	0.3mm min.

For General Purpose GRM/GRJ/GR3 Series

Continued from the preceding p						Thickness T		
Part Number	Rated Voltage	TC Code (Standard)	Capacitance	Length L (mm)	Width W (mm)	max. (mm)	Electrode g min.	Electrode e
GRM32D7U2J103JW31L	630Vdc	U2J (EIA)	10000pF±5%	3.2	2.5	2	1.5mm	0.3mm min.
GRM43Q7U2J123JW31L	630Vdc	U2J (EIA)	12000pF±5%	4.5	3.2	1.5	2.2mm	0.3mm min.
GRM43D7U2J153JW31L	630Vdc	U2J (EIA)	15000pF±5%	4.5	3.2	2	2.2mm	0.3mm min.
GRM43D7U2J183JW31L	630Vdc	U2J (EIA)	18000pF±5%	4.5	3.2	2	2.2mm	0.3mm min.
GRM43D7U2J223JW31L	630Vdc	U2J (EIA)	22000pF±5%	4.5	3.2	2	2.2mm	0.3mm min.
GRM55Q7U2J273JW31L	630Vdc	U2J (EIA)	27000pF±5%	5.7	5.0	1.5	3.2mm	0.3mm min.
GRM55D7U2J333JW31L	630Vdc	U2J (EIA)	33000pF±5%	5.7	5.0	2	3.2mm	0.3mm min.
GRM55D7U2J393JW31L	630Vdc	U2J (EIA)	39000pF±5%	5.7	5.0	2	3.2mm	0.3mm min.
GRM55D7U2J473JW31L	630Vdc	U2J (EIA)	47000pF±5%	5.7	5.0	2	3.2mm	0.3mm min.
GRM31A7U3A100JW31D	1000Vdc	U2J (EIA)	10pF±5%	3.2	1.6	1	1.5mm	0.3mm min.
GRM31A7U3A120JW31D	1000Vdc	U2J (EIA)	12pF±5%	3.2	1.6	1	1.5mm	0.3mm min.
GRM31A7U3A150JW31D	1000Vdc	U2J (EIA)	15pF±5%	3.2	1.6	1	1.5mm	0.3mm min.
GRM31A7U3A180JW31D	1000Vdc	U2J (EIA)	18pF±5%	3.2	1.6	1	1.5mm	0.3mm min.
GRM31A7U3A220JW31D	1000Vdc	U2J (EIA)	22pF±5%	3.2	1.6	1	1.5mm	0.3mm min.
GRM31A7U3A270JW31D	1000Vdc	U2J (EIA)	27pF±5%	3.2	1.6	1	1.5mm	0.3mm min.
GRM31A7U3A330JW31D	1000Vdc	U2J (EIA)	33pF±5%	3.2	1.6	1	1.5mm	0.3mm min.
GRM31A7U3A390JW31D	1000Vdc	U2J (EIA)	39pF±5%	3.2	1.6	1	1.5mm	0.3mm min.
GRM31A7U3A470JW31D	1000Vdc	U2J (EIA)	47pF±5%	3.2	1.6	1	1.5mm	0.3mm min.
GRM31A7U3A560JW31D	1000Vdc	U2J (EIA)	56pF±5%	3.2	1.6	1	1.5mm	0.3mm min.
GRM31A7U3A680JW31D	1000Vdc	U2J (EIA)	68pF±5%	3.2	1.6	1	1.5mm	0.3mm min.
GRM31A7U3A820JW31D	1000Vdc	U2J (EIA)	82pF±5%	3.2	1.6	1	1.5mm	0.3mm min.
GRM31A7U3A101JW31D	1000Vdc	U2J (EIA)	100pF±5%	3.2	1.6	1	1.5mm	0.3mm min.
GRM31A7U3A121JW31D	1000Vdc	U2J (EIA)	120pF±5%	3.2	1.6	1	1.5mm	0.3mm min.
GRM31A7U3A151JW31D	1000Vdc	U2J (EIA)	150pF±5%	3.2	1.6	1	1.5mm	0.3mm min.
GRM31A7U3A181JW31D	1000Vdc	U2J (EIA)	180pF±5%	3.2	1.6	1	1.5mm	0.3mm min.
GRM31A7U3A221JW31D	1000Vdc	U2J (EIA)	220pF±5%	3.2	1.6	1	1.5mm	0.3mm min.
GRM31A7U3A271JW31D	1000Vdc	U2J (EIA)	270pF±5%	3.2	1.6	1	1.5mm	0.3mm min.
GRM31A7U3A331JW31D	1000Vdc	U2J (EIA)	330pF±5%	3.2	1.6	1	1.5mm	0.3mm min.
GRM31B7U3A391JW31L	1000Vdc	U2J (EIA)	390pF±5%	3.2	1.6	1.25	1.5mm	0.3mm min.
GRM31B7U3A471JW31L	1000Vdc	U2J (EIA)	470pF±5%	3.2	1.6	1.25	1.5mm	0.3mm min.
GRM31B7U3A561JW31L	1000Vdc	U2J (EIA)	560pF±5%	3.2	1.6	1.25	1.5mm	0.3mm min.
GRM31B7U3A681JW31L	1000Vdc	U2J (EIA)	680pF±5%	3.2	1.6	1.25	1.5mm	0.3mm min.
GRM31C7U3A821JW32L	1000Vdc	U2J (EIA)	820pF±5%	3.2	1.6	1.8	1.5mm	0.3mm min.
GRM31C7U3A102JW32L	1000Vdc	U2J (EIA)	1000pF±5%	3.2	1.6	1.8	1.5mm	0.3mm min.
GRM32B7U3A122JW31L	1000Vdc	U2J (EIA)	1200pF±5%	3.2	2.5	1.25	1.5mm	0.3mm min.
GRM32Q7U3A152JW31L	1000Vdc	U2J (EIA)	1500pF±5%	3.2	2.5	1.5	1.5mm	0.3mm min.
GRM32D7U3A182JW31L	1000Vdc	U2J (EIA)	1800pF±5%	3.2	2.5	2	1.5mm	0.3mm min.
GRM32D7U3A222JW31L	1000Vdc	U2J (EIA)	2200pF±5%	3.2	2.5	2	1.5mm	0.3mm min.
GRM43Q7U3A272JW31L	1000Vdc	U2J (EIA)	2700pF±5%	4.5	3.2	1.5	2.2mm	0.3mm min.
GRM43Q7U3A332JW31L	1000Vdc	U2J (EIA)	3300pF±5%	4.5	3.2	1.5	2.2mm	0.3mm min.
GRM43D7U3A392JW31L	1000Vdc	U2J (EIA)	3900pF±5%	4.5	3.2	2	2.2mm	0.3mm min.
GRM43D7U3A472JW31L	1000Vdc	U2J (EIA)	4700pF±5%	4.5	3.2	2	2.2mm	0.3mm min.
GRM55Q7U3A562JW31L	1000Vdc	U2J (EIA)	5600pF±5%	5.7	5.0	1.5	3.2mm	0.3mm min.
GRM55Q7U3A682JW31L	1000Vdc	U2J (EIA)	6800pF±5%	5.7	5.0	1.5	3.2mm	0.3mm min.
GRM55D7U3A822JW31L	1000Vdc	U2J (EIA)	8200pF±5%	5.7	5.0	2	3.2mm	0.3mm min.
GRM55D7U3A103JW31L	1000Vdc	U2J (EIA)	10000pF±5%	5.7	5.0	2	3.2mm	0.3mm min.
GRM31A7U3D100JW31D	2000Vdc	U2J (EIA)	10pF±5%	3.2	1.6	1	1.8mm	0.3mm min.
GRM31A7U3D120JW31D	2000Vdc	U2J (EIA)	12pF±5%	3.2	1.6	1	1.8mm	0.3mm min.
GRM31A7U3D150JW31D	2000Vdc	U2J (EIA)	15pF±5%	3.2	1.6	1	1.8mm	0.3mm min.
GRM31A7U3D180JW31D	2000Vdc	U2J (EIA)	18pF±5%	3.2	1.6	1	1.8mm	0.3mm min.
GRM31A7U3D220JW31D	2000Vdc	U2J (EIA)	22pF±5%	3.2	1.6	1	1.8mm	0.3mm min.
GRM31A7U3D270JW31D	2000Vdc	U2J (EIA)	27pF±5%	3.2	1.6	1	1.8mm	0.3mm min.
GRM31A7U3D330JW31D	2000Vdc	U2J (EIA)	33pF±5%	3.2	1.6	1	1.8mm	0.3mm min.
GRM31A7U3D390JW31D	2000Vdc	U2J (EIA)	39pF±5%	3.2	1.6	1	1.8mm	0.3mm min.
GRM31A7U3D470JW31D	2000Vdc	U2J (EIA)	47pF±5%	3.2	1.6	1	1.8mm	0.3mm min.
CDM21 A7U2DE60 IW21D	2000 V do	UOL(EIA)	F65E+E9/	0.2	4.0		1.0	0.0mm min

3.2

3.2

1.6

1.6

1

1

56pF±5%

68pF±5%

GRM31A7U3D560JW31D

GRM31A7U3D680JW31D

2000Vdc

2000Vdc

U2J (EIA)

U2J (EIA)

1.8mm

1.8mm

0.3mm min.

0.3mm min.

Continued from the preceding page.

AC250V Type GA2 Series

Part Number	Rated Voltage	TC Code (Standard)	Capacitance	Length L (mm)	Width W (mm)	Thickness T max. (mm)	Electrode g min.	Electrode e
GRM32A7U3D820JW31D	2000Vdc	U2J (EIA)	82pF±5%	3.2	2.5	1	1.8mm	0.3mm min.
GRM32A7U3D101JW31D	2000Vdc	U2J (EIA)	100pF±5%	3.2	2.5	1	1.8mm	0.3mm min.
GRM32A7U3D121JW31D	2000Vdc	U2J (EIA)	120pF±5%	3.2	2.5	1	1.8mm	0.3mm min.
GRM32A7U3D151JW31D	2000Vdc	U2J (EIA)	150pF±5%	3.2	2.5	1	1.8mm	0.3mm min.
GRM32B7U3D181JW31L	2000Vdc	U2J (EIA)	180pF±5%	3.2	2.5	1.25	1.8mm	0.3mm min.
GRM32B7U3D221JW31L	2000Vdc	U2J (EIA)	220pF±5%	3.2	2.5	1.25	1.8mm	0.3mm min.
GRM42A7U3F270JW31L	3150Vdc	U2J (EIA)	27pF±5%	4.5	2.0	1	2.9mm	0.3mm min.
GRM42A7U3F330JW31L	3150Vdc	U2J (EIA)	33pF±5%	4.5	2.0	1	2.9mm	0.3mm min.
GRM42A7U3F390JW31L	3150Vdc	U2J (EIA)	39pF±5%	4.5	2.0	1	2.9mm	0.3mm min.
GRM42A7U3F470JW31L	3150Vdc	U2J (EIA)	47pF±5%	4.5	2.0	1	2.9mm	0.3mm min.
GRM42A7U3F560JW31L	3150Vdc	U2J (EIA)	56pF±5%	4.5	2.0	1	2.9mm	0.3mm min.
GRM42A7U3F680JW31L	3150Vdc	U2J (EIA)	68pF±5%	4.5	2.0	1	2.9mm	0.3mm min.
GRM42A7U3F820JW31L	3150Vdc	U2J (EIA)	82pF±5%	4.5	2.0	1	2.9mm	0.3mm min.
GRM42A7U3F101JW31L	3150Vdc	U2J (EIA)	100pF±5%	4.5	2.0	1	2.9mm	0.3mm min.

GRM Series Specifications and Test Methods

No.	Ite	em	Specifications	Test Method
1	Operating Temperatu	ire Range	-55 to +125°C	-
2	Appearan	ice	No defects or abnormalities	Visual inspection
3	Dimensio	ns	Within the specified dimension	Using calipers and micrometers
4	Dielectric	Strength	No defects or abnormalities	No failure should be observed when voltage in the Table is applied between the terminations for 1 to 5 sec., provided the charge/discharge current is less than 50mA. Rated Voltage Test Voltage
5	Insulation F	Resistance	More than 10,000MΩ	The insulation resistance should be measured with DC500±50V (DC250±25V in case of rated voltage: DC250V) and within 60±5 sec. of charging.
6	Capacitar	nce	Within the specified tolerance	The capacitance/Q should be measured at the frequency and
7	Q		1,000 min.	Capacitance Frequency Voltage C<1,000pF 1±0.2MHz AC0.5 to 5V(r.m.s.) C≥1,000pF 1±0.2kHz AC1±0.2V(r.m.s.)
8	Capacitar Temperat Character	ure	Temp. Coefficient COG char.: 0±30ppm/°C (Temp. Range: +25 to +125°C) 0+30, -72ppm/°C (Temp. Range: -55 to +25°C) U2J char.: -750±120ppm/°C (Temp. Range: +25 to +125°C) -750+120, -347ppm/°C (Temp. Range: -55 to +25°C)	The capacitance measurement should be made at each step specified in the Table. Step Temperature (°C)
9	Adhesive of Termin	-	No removal of the terminations or other defect should occur.	Solder the capacitor to the testing jig (glass epoxy board) shown in Fig. 1. Then apply 10N force in the direction of the arrow. The soldering should be done using the reflow method and should be conducted with care so that the soldering is uniform and free of defects such as heat shock. 10N, 10±1s Glass Epoxy Board Fig. 1
		Appearance	No defects or abnormalities	Solder the capacitor to the test jig (glass epoxy board).
		Capacitance	Within the specified tolerance	The capacitor should be subjected to a simple harmonic motion
10	0 Vibration Resistance	Capacitance Within the specified tolerance		having a total amplitude of 1.5mm, the frequency being varied uniformly between the approximate limits of 10 and 55Hz. The frequency range, from 10 to 55Hz and return to 10Hz, should be traversed in approximately 1 min. This motion should be applied for a period of 2 hrs. in each of 3 mutually perpendicular directions (total of 6 hrs.). Solder resist Cu Glass Epoxy Board





GRM Series Specifications and Test Methods

7	Continued fr	om the prec	eding page.	I
No.	Ite	em	Specifications	Test Method
11	Deflection		No marking defects	Solder the capacitor to the testing jig (glass epoxy board) shown in Fig. 2. Then apply a force in the direction shown in Fig. 3. The soldering should be done using the reflow method and should be conducted with care so that the soldering is uniform and free of defects such as heat shock.
			4.5×2.0 3.5 7.0 2.4 4.5×3.2 3.5 7.0 3.7 5.7×5.0 4.5 8.0 5.6	Fig. 3
12	Solderab Terminati	•	75% of the terminations are to be soldered evenly and continuously.	Immerse the capacitor in a solution of ethanol (JIS-K-8101) and rosin (JIS-K-5902) (25% rosin in weight proportion). Immerse in solder solution for 2±0.5 sec. Immersing speed: 25±2.5mm/s Temp. of solder: 245±5°C Lead Free Solder (Sn-3.0Ag-0.5Cu) 235±5°C H60A or H63A Eutectic Solder
	Resistance	Appearance Capacitance Change	No marking defects Within ±2.5%	Preheat the capacitor at 120 to 150°C* for 1 min. Immerse the capacitor in solder solution at 260±5°C for 10±1 sec. Let sit at room condition* for 24±2 hrs., then measure. •Immersing speed: 25±2.5mm/s
13	to Soldering	Q	1,000 min.	
	Heat I.R.		More than 10,000M Ω	*Preheating for more than 3.2×2.5mm Step Temperature Time
		Dielectric Strength	In accordance with item No.4	1 100 to 120°C 1 min. 2 170 to 200°C 1 min.
		Appearance	No marking defects	Fix the capacitor to the supporting jig (glass epoxy board) shown in Fig. 4.
		Capacitance Change	Within ±2.5%	Perform the 5 cycles according to the 4 heat treatments listed in the following table.
		Q	500 min.	Let sit for 24±2 hrs. at room condition,* then measure.
14	Temperature Cycle	I.R. Dielectric	More than $10,000 M\Omega$	Step Temperature (°C) Time (min.) 1 Min. Operating Temp.±3 30±3 2 Room Temp. 2 to 3 3 Max. Operating Temp.±2 30±3 4 Room Temp. 2 to 3
		Strength	In accordance with item No.4	Solder resist Glass Epoxy Board Fig. 4
		Appearance	No marking defects	
	Humidity	Capacitance Change	Within ±5.0%	Let the capacitor sit at 40±2°C and relative humidity of 90 to 95% for 500±26 hrs.
15	(Steady State)	Q	350 min.	Remove and let sit for 24±2 hrs. at room condition,* then
	i.H. More than 1,000MΩ		More than 1,000MΩ	measure.
		Dielectric Strength	In accordance with item No.4	
		Appearance	No marking defects	Apply voltage as in Table for 1,000 ^{±48} hrs. at maximum
		Capacitance Change	Within ±3.0%	operating temperature ±3°C. Remove and let sit for 24±2 hrs. at room condition,* then measure.
16	Life	Q	350 min.	Rated Voltage Applied Voltage
		I.R. Dielectric	More than 1,000MΩ	DC250V 150% of the rated voltage DC630V, DC1kV, DC2kV, DC3.15kV 120% of the rated voltage
		Strength	In accordance with item No.4	The charge/discharge current is less than 50mA.

^{* &}quot;Room condition" Temperature: 15 to 35°C, Relative humidity: 45 to 75%, Atmospheric pressure: 86 to 106kPa



Chip Monolithic Ceramic Capacitors (Medium Voltage)

High Dielectric Constant Type GRM Series (250Vdc min.)

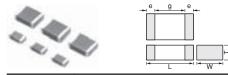
■ Features

- 1. A new monolithic structure for small, high capacitance capable of operating at high voltage
- 2. Sn-plated external electrodes provide good solderability.
- 3. Use the GRM18/21/31 types with flow or reflow soldering, and other types with reflow soldering only.

Applications

- 1. Ideal for use on clamp-snubber circuits for switching power supplies.
- 2. Ideal for use as primary-secondary coupling for DC-DC converters.
- 3. Ideal for use on line filters and ringer detectors for telephones, facsimiles and modems.

Do not use these products in any Automotive Power train or Safety equipment including Battery chargers for Electric Vehicles and Plug-in Hybrids. Only Murata products clearly stipulated as "for Automotive use" can be used for automobile applications such as Power train and Safety equipment.



Part Number		Din	nensions (mm	1)	
Fait Nullibei	L	W	Т	е	g min.
GRM188	1.6 ±0.1	0.8 ±0.1	0.8 ±0.1	0.2 to 0.5	0.4
GRM21A	2.0 ±0.2	1.25 ±0.2	1.0 +0,-0.3		0.7
GRM21B	2.0 ±0.2	1.25 ±0.2	1.25 ±0.2]	0.7
GRM31B	3.2 ±0.2	1.6 ±0.2	1.25 + 0, -0.3		
GRM31C	3.2 ±0.2	1.0 ±0.2	1.6 ±0.2		1.2
GRM32Q	3.2 ±0.3	2.5 ±0.2	1.5 +0,-0.3	0.3 min.	1.2
GRM32D	3.2 ±0.3	2.5 ±0.2	2.0 +0,-0.3		
GRM43Q	4.5 ±0.4	3.2 ±0.3	1.5 + 0, -0.3		2.2
GRM43D	4.5 ±0.4	3.2 ±0.3	2.0 +0,-0.3		2.2
GRM55D	5.7 ±0.4	5.0 ±0.4	2.0 +0,-0.3		3.2

Part Number	Rated Voltage	TC Code (Standard)	Capacitance	Length L (mm)	Width W (mm)	Thickness T max. (mm)	Electrode g min.	Electrode e
GRM188R72E221KW07D	250Vdc	X7R (EIA)	220pF±10%	1.6	0.8	0.9	0.4mm	0.2 to 0.5mm
GRM188R72E331KW07D	250Vdc	X7R (EIA)	330pF±10%	1.6	0.8	0.9	0.4mm	0.2 to 0.5mm
GRM188R72E471KW07D	250Vdc	X7R (EIA)	470pF±10%	1.6	0.8	0.9	0.4mm	0.2 to 0.5mm
GRM188R72E681KW07D	250Vdc	X7R (EIA)	680pF±10%	1.6	0.8	0.9	0.4mm	0.2 to 0.5mm
GRM188R72E102KW07D	250Vdc	X7R (EIA)	1000pF±10%	1.6	0.8	0.9	0.4mm	0.2 to 0.5mm
GRM21AR72E102KW01D	250Vdc	X7R (EIA)	1000pF±10%	2	1.25	1	0.7mm	0.3mm min.
GRM188R72E152KW07D	250Vdc	X7R (EIA)	1500pF±10%	1.6	0.8	0.9	0.4mm	0.2 to 0.5mm
GRM21AR72E152KW01D	250Vdc	X7R (EIA)	1500pF±10%	2	1.25	1	0.7mm	0.3mm min.
GRM188R72E222KW07D	250Vdc	X7R (EIA)	2200pF±10%	1.6	0.8	0.9	0.4mm	0.2 to 0.5mm
GRM21AR72E222KW01D	250Vdc	X7R (EIA)	2200pF±10%	2	1.25	1	0.7mm	0.3mm min.
GRM21AR72E332KW01D	250Vdc	X7R (EIA)	3300pF±10%	2	1.25	1	0.7mm	0.3mm min.
GRM21AR72E472KW01D	250Vdc	X7R (EIA)	4700pF±10%	2	1.25	1	0.7mm	0.3mm min.
GRM21AR72E682KW01D	250Vdc	X7R (EIA)	6800pF±10%	2	1.25	1	0.7mm	0.3mm min.
GRM21BR72E103KW03L	250Vdc	X7R (EIA)	10000pF±10%	2	1.25	1.45	0.7mm	0.3mm min.
GRM31BR72E153KW01L	250Vdc	X7R (EIA)	15000pF±10%	3.2	1.6	1.25	1.2mm	0.3mm min.
GRM31BR72E223KW01L	250Vdc	X7R (EIA)	22000pF±10%	3.2	1.6	1.25	1.2mm	0.3mm min.
GRM31CR72E333KW03L	250Vdc	X7R (EIA)	33000pF±10%	3.2	1.6	1.8	1.2mm	0.3mm min.
GRM31CR72E473KW03L	250Vdc	X7R (EIA)	47000pF±10%	3.2	1.6	1.8	1.2mm	0.3mm min.
GRM31BR72E683KW01L	250Vdc	X7R (EIA)	68000pF±10%	3.2	1.6	1.25	1.2mm	0.3mm min.
GRM32QR72E683KW01L	250Vdc	X7R (EIA)	68000pF±10%	3.2	2.5	1.5	1.2mm	0.3mm min.
GRM31CR72E104KW03L	250Vdc	X7R (EIA)	0.10µF±10%	3.2	1.6	1.8	1.2mm	0.3mm min.
GRM32DR72E104KW01L	250Vdc	X7R (EIA)	0.10µF±10%	3.2	2.5	2	1.2mm	0.3mm min.
GRM32QR72E154KW01L	250Vdc	X7R (EIA)	0.15µF±10%	3.2	2.5	1.5	1.2mm	0.3mm min.
GRM43QR72E154KW01L	250Vdc	X7R (EIA)	0.15µF±10%	4.5	3.2	1.5	2.2mm	0.3mm min.
GRM32DR72E224KW01L	250Vdc	X7R (EIA)	0.22µF±10%	3.2	2.5	2	1.2mm	0.3mm min.

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Continued from the preceding page.

AC250V Type GA2 Series

Part Number	Rated Voltage	TC Code (Standard)	Capacitance	Length L (mm)	Width W (mm)	Thickness T max. (mm)	Electrode g min.	Electrode e
GRM43DR72E224KW01L	250Vdc	X7R (EIA)	0.22µF±10%	4.5	3.2	2	2.2mm	0.3mm min.
GRM43DR72E334KW01L	250Vdc	X7R (EIA)	0.33µF±10%	4.5	3.2	2	2.2mm	0.3mm min.
GRM55DR72E334KW01L	250Vdc	X7R (EIA)	0.33µF±10%	5.7	5.0	2	3.2mm	0.3mm min.
GRM43DR72E474KW01L	250Vdc	X7R (EIA)	0.47µF±10%	4.5	3.2	2	2.2mm	0.3mm min.
GRM55DR72E474KW01L	250Vdc	X7R (EIA)	0.47µF±10%	5.7	5.0	2	3.2mm	0.3mm min.
GRM55DR72E684KW01L	250Vdc	X7R (EIA)	0.68µF±10%	5.7	5.0	2	3.2mm	0.3mm min.
GRM55DR72E105KW01L	250Vdc	X7R (EIA)	1.0µF±10%	5.7	5.0	2	3.2mm	0.3mm min.
GRM31BR72J102KW01L	630Vdc	X7R (EIA)	1000pF±10%	3.2	1.6	1.25	1.2mm	0.3mm min.
GRM31BR72J152KW01L	630Vdc	X7R (EIA)	1500pF±10%	3.2	1.6	1.25	1.2mm	0.3mm min.
GRM31BR72J222KW01L	630Vdc	X7R (EIA)	2200pF±10%	3.2	1.6	1.25	1.2mm	0.3mm min.
GRM31BR72J332KW01L	630Vdc	X7R (EIA)	3300pF±10%	3.2	1.6	1.25	1.2mm	0.3mm min.
GRM31BR72J472KW01L	630Vdc	X7R (EIA)	4700pF±10%	3.2	1.6	1.25	1.2mm	0.3mm min.
GRM31BR72J682KW01L	630Vdc	X7R (EIA)	6800pF±10%	3.2	1.6	1.25	1.2mm	0.3mm min.
GRM31BR72J103KW01L	630Vdc	X7R (EIA)	10000pF±10%	3.2	1.6	1.25	1.2mm	0.3mm min.
GRM31CR72J153KW03L	630Vdc	X7R (EIA)	15000pF±10%	3.2	1.6	1.8	1.2mm	0.3mm min.
GRM32QR72J223KW01L	630Vdc	X7R (EIA)	22000pF±10%	3.2	2.5	1.5	1.2mm	0.3mm min.
GRM32DR72J333KW01L	630Vdc	X7R (EIA)	33000pF±10%	3.2	2.5	2	1.2mm	0.3mm min.
GRM32DR72J473KW01L	630Vdc	X7R (EIA)	47000pF±10%	3.2	2.5	2	1.2mm	0.3mm min.
GRM43QR72J683KW01L	630Vdc	X7R (EIA)	68000pF±10%	4.5	3.2	1.5	2.2mm	0.3mm min.
GRM43DR72J104KW01L	630Vdc	X7R (EIA)	0.10µF±10%	4.5	3.2	2	2.2mm	0.3mm min.
GRM55DR72J154KW01L	630Vdc	X7R (EIA)	0.15µF±10%	5.7	5.0	2	3.2mm	0.3mm min.
GRM55DR72J224KW01L	630Vdc	X7R (EIA)	0.22µF±10%	5.7	5.0	2	3.2mm	0.3mm min.
GRM31BR73A471KW01L	1000Vdc	X7R (EIA)	470pF±10%	3.2	1.6	1.25	1.2mm	0.3mm min.
GRM31BR73A681KW01L	1000Vdc	X7R (EIA)	680pF±10%	3.2	1.6	1.25	1.2mm	0.3mm min.
GRM31BR73A102KW01L	1000Vdc	X7R (EIA)	1000pF±10%	3.2	1.6	1.25	1.2mm	0.3mm min.
GRM31BR73A152KW01L	1000Vdc	X7R (EIA)	1500pF±10%	3.2	1.6	1.25	1.2mm	0.3mm min.
GRM31BR73A222KW01L	1000Vdc	X7R (EIA)	2200pF±10%	3.2	1.6	1.25	1.2mm	0.3mm min.
GRM31BR73A332KW01L	1000Vdc	X7R (EIA)	3300pF±10%	3.2	1.6	1.25	1.2mm	0.3mm min.
GRM31BR73A472KW01L	1000Vdc	X7R (EIA)	4700pF±10%	3.2	1.6	1.25	1.2mm	0.3mm min.
GRM32QR73A682KW01L	1000Vdc	X7R (EIA)	6800pF±10%	3.2	2.5	1.5	1.2mm	0.3mm min.
GRM32QR73A103KW01L	1000Vdc	X7R (EIA)	10000pF±10%	3.2	2.5	1.5	1.2mm	0.3mm min.
GRM32DR73A153KW01L	1000Vdc	X7R (EIA)	15000pF±10%	3.2	2.5	2	1.2mm	0.3mm min.
GRM32DR73A223KW01L	1000Vdc	X7R (EIA)	22000pF±10%	3.2	2.5	2	1.2mm	0.3mm min.
GRM43DR73A333KW01L	1000Vdc	X7R (EIA)	33000pF±10%	4.5	3.2	2	2.2mm	0.3mm min.
GRM43DR73A473KW01L	1000Vdc	X7R (EIA)	47000pF±10%	4.5	3.2	2	2.2mm	0.3mm min.
GRM55DR73A683KW01L	1000Vdc	X7R (EIA)	68000pF±10%	5.7	5.0	2	3.2mm	0.3mm min.
GRM55DR73A104KW01L	1000Vdc	X7R (EIA)	0.10µF±10%	5.7	5.0	2	3.2mm	0.3mm min.



GRM Series Specifications and Test Methods

No	. Ite	em	Specifications	Test Method
1	Operating Temperatu	ıre Range	-55 to +125°C	-
2	Appearan	ice	No defects or abnormalities	Visual inspection
3	Dimensio	ns	Within the specified dimensions	Using calipers and micrometers
4	Dielectric	Strength	No defects or abnormalities	No failure should be observed when 150% of the rated voltage (200% of the rated voltage in case of rated voltage: DC250V, 120% of the rated voltage in case of rated voltage: DC1kV) is applied between the terminations for 1 to 5 sec., provided the charge/discharge current is less than 50mA.
5	Insulation F (I.R.)	Resistance	C≧0.01μF: More than 100MΩ • μF C<0.01μF: More than 10,000MΩ	The insulation resistance should be measured with DC500±50V (DC250±25V in case of rated voltage: DC250V) and within 60±5 sec. of charging.
6	Capacitar	nce	Within the specified tolerance	
7	Dissipation Factor (D.		0.025 max.	The capacitance/D.F. should be measured at a frequency of 1±0.2kHz and a voltage of AC1±0.2V(r.m.s.).
				The capacitance measurement should be made at each step specified in the Table.
8	Capacitar Temperat Character	ture	Cap. Change Within ±15% (Temp. Range: –55 to +125°C)	Step Temperature (°C) 1 25±2 2 Min. Operating Temp.±3 3 25±2 4 Max. Operating Temp.±2 5 25±2 •Pretreatment Perform a heat treatment at 150±0 °C for 60±5 min. and then let sit for 24±2 hrs. at room condition.* Solder the capacitor to the testing jig (glass epoxy board) shown
9	Adhesive of Termin	•	No removal of the terminations or other defect should occur.	Then apply 10N force in the direction of the arrow. The soldering should be done using the reflow method and should be conducted with care so that the soldering is uniform and free of defects such as heat shock. 10N (5N: Size 1.6×0.8mm only), 10±1s Glass Epoxy Board Fig. 1
		Appearance	No defects or abnormalities	Solder the capacitor to the test jig (glass epoxy board).
		Capacitance	Within the specified tolerance	The capacitor should be subjected to a simple harmonic motion having a total amplitude of 1.5mm, the frequency being varied
10	Vibration Resistance	D.F.	0.025 max.	uniformly between the approximate limits of 10 and 55Hz. The frequency range, from 10 to 55Hz and return to 10Hz, should be traversed in approximately 1 min. This motion should be applied for a period of 2 hrs. in each of 3 mutually perpendicular directions (total of 6 hrs.). Solder resist

^{* &}quot;Room condition" Temperature: 15 to 35°C, Relative humidity: 45 to 75%, Atmospheric pressure: 86 to 106kPa





GRM Series Specifications and Test Methods

7	Continued fr	om the prece	eding page.									
No.	Ite	em		S	pecification	ıs				Test Method		
11	1 Deflection		No marking defects					Solder the capacitor to the testing jig (glass epoxy board) shown in Fig. 2. Then apply a force in the direction shown in Fig. 3. The soldering should be done using the reflow method and should be conducted with care so that the soldering is uniform and free of defects such as heat shock. 20 50 Pressurizing Speed: 1.0mm/s Pressurizing Speed: 1.0mm/s Pressurize Flexure=1 Capacitance meter 45 (in mm) Fig. 3				
12	Solderab Terminati	-	75% of the termi	nations are	to be soldere	ed evenly an	d continuously.	Immerse the capacitor in a solution of ethanol (JIS-K-8101) ar rosin (JIS-K-5902) (25% rosin in weight proportion). Immerse in solder solution for 2±0.5 sec. Immersing speed: 25±2.5mm/s Temp. of solder: 245±5°C Lead Free Solder (Sn-3.0Ag-0.5Cu 235±5°C H60A or H63A Eutectic Solder				
	Appearai Capacitai Change							Preheat the capacitor at 120 to 150°C* for 1 min. Immerse the capacitor in solder solution at 260±5°C for 10±1 sec. Let sit at room condition* for 24±2 hrs., then measure. •Immersing speed: 25±2.5mm/s				
	Resistance	D.F.	0.025 max.					•Pre	treatme	nt		
13	to Soldering Heat	I.R.	C≥0.01μF: More than 100MΩ • μF C<0.01μF: More than 10,000MΩ							eat treatment at 150±18°C fo £2 hrs. at room condition.*	r 60±5 min. and then	
		Dielectric Strength	In accordance with item No.4						neating f Step 1 2	or more than 3.2×2.5mm Temperature 100 to 120°C 170 to 200°C	Time 1 min. 1 min.	
		Appearance	No marking defects					Fix the	e capaci	tor to the supporting jig (glass	epoxy board) shown	
		Capacitance Change	Within ±7.5%	•				in Fig. 4. Perform the 5 cycles according to the 4 heat treatments listed in the following table.				
		D.F.	0.025 max.							2 hrs. at room condition,* the	n measure. Time (min.)	
		I.R.	C≧0.01µF: Mor C<0.01µF: Mor						Step 1 2	Min. Operating Temp.±3 Room Temp.	30±3 2 to 3	
	Temperature								3	Max. Operating Temp.±2 Room Temp.	30±3 2 to 3	
14	Cycle	Dielectric Strength	In accordance v	vith item N	0.4			Perf		eat treatment at 150±18°C fo	r 60±5 min. and then	
		Appearance	No marking def	ects								
		Capacitance Change	Within ±15%						e capac 0±25hrs	itor sit at 40±2°C and relative	humidity of 90 to 95%	
15	Humidity (Steady	D.F.	0.05 max.					Remo		let sit for 24±2 hrs. at room c	ondition,* then	
.5	State)	I.R.	C≥0.01µF: Mor C<0.01µF: Mor					•Pref	t <mark>reatme</mark> orm a he	eat treatment at 150±18°C fo	r 60±5 min. and then	
		Dielectric Strength	In accordance v	vith item N	0.4			iet S	it 101 24:	£2 hrs. at room condition.*		

^{* &}quot;Room condition" Temperature: 15 to 35°C, Relative humidity: 45 to 75%, Atmospheric pressure: 86 to 106kPa





Only for Applications

GRM Series Specifications and Test Methods

Continued from the preceding page.

No.	Ite	em	Specifications	Test Method
		Appearance	No marking defects	Apply 120% of the rated voltage (150% of the rated voltage in
	Life	Capacitance Change	Within ±15% (rated voltage: DC250V, DC630V) Within ±20% (rated voltage: DC1kV)	case of rated voltage: DC250V, 110% of the rated voltage in case of rated voltage: DC1kV) for 1,000±48hrs. at maximum
16		D.F.	0.05 max.	operating temperature ±3°C. Remove and let sit for 24±2hrs. at room condition,* then measure.
		I.R.	C≥0.01μF: More than 10M Ω • μF C<0.01μF: More than 1,000M Ω	The charge/discharge current is less than 50mA. •Pretreatment
		Dielectric Strength	In accordance with item No.4	Apply test voltage for 60±5 min. at test temperature. Remove and let sit for 24±2 hrs. at room condition.*
		Appearance	No marking defects	
	Humidity Loading	Capacitance Change	Within ±15%	Apply the rated voltage at 40±2°C and relative humidity of 90 to 95% for 500±2dhrs.
17	(Application:	D.F.	0.05 max.	Remove and let sit for 24±2 hrs. at room condition,* then measure.
	DC250V, DC630V item)	I.R.	C≥0.01μF: More than 10M Ω • μF C<0.01μF: More than 1,000M Ω	 Pretreatment Apply test voltage for 60±5 min. at test temperature.
		Dielectric Strength	In accordance with item No.4	Remove and let sit for 24±2 hrs. at room condition.*

^{* &}quot;Room condition" Temperature: 15 to 35°C, Relative humidity: 45 to 75%, Atmospheric pressure: 86 to 106kPa



Chip Monolithic Ceramic Capacitors (Medium Voltage)

Soft Termination Type GRJ Series



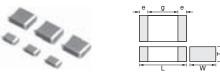
Features

- 1. Improves endurance against Board Bending Stress.
- 2. Reduces the board bending stress by the conductive polymer termination.
- 3. Use the GRJ21/31 types with flow or reflow soldering, and other types with reflow soldering

Applications

- 1. Ideal for use on clamp-snubber circuits for switching power supplies.
- 2. Ideal for use as primary-secondary coupling for DC-DC converters.
- 3. Ideal for use on line filters and ringer detectors for telephones, facsimiles and modems.

Do not use these products in any Automotive Power train or Safety equipment including Battery chargers for Electric Vehicles and Plug-in Hybrids. Only Murata products clearly stipulated as "for Automotive use" can be used for automobile applications such as Power train and Safety equipment.



			•						
Part Number	Dimensions (mm)								
Part Number	L	W T		е	g min.				
GRJ21A	2.0 ±0.2	1.25 ±0.2	1.0 +0,-0.3		0.7				
GRJ21B	2.0 ±0.2	1.25 ±0.2	1.25 ±0.2		0.7				
GRJ31B	3.2 ±0.2	1.6 ±0.2	1.25 +0,-0.3		1.2				
GRJ31C	3.2 ±0.2	1.0 ±0.2	1.6 ±0.2						
GRJ32Q	3.2 ±0.3	2.5 ±0.2	1.5 +0,-0.3	0.3 min.					
GRJ32D	3.2 ±0.3	2.5 ±0.2	2.0 +0,-0.3						
GRJ43Q	4.5 ±0.4	3.2 ±0.3	1.5 +0,-0.3		2.2				
GRJ43D	4.5 ±0.4	3.2 ±0.3	2.0 +0,-0.3		2.2				
GRJ55D	5.7 ±0.4	5.0 ±0.4	2.0 +0,-0.3		3.2				

Part Number	Rated Voltage	TC Code (Standard)	Capacitance	Length L (mm)	Width W (mm)	Thickness T max. (mm)	Electrode g min.	Electrode e
GRJ21AR72E102KWJ1D	250Vdc	X7R (EIA)	1000pF±10%	2	1.25	1	0.7mm	0.3mm min.
GRJ21AR72E152KWJ1D	250Vdc	X7R (EIA)	1500pF±10%	2	1.25	1	0.7mm	0.3mm min.
GRJ21AR72E222KWJ1D	250Vdc	X7R (EIA)	2200pF±10%	2	1.25	1	0.7mm	0.3mm min.
GRJ21AR72E332KWJ1D	250Vdc	X7R (EIA)	3300pF±10%	2	1.25	1	0.7mm	0.3mm min.
GRJ21AR72E472KWJ1D	250Vdc	X7R (EIA)	4700pF±10%	2	1.25	1	0.7mm	0.3mm min.
GRJ21AR72E682KWJ1D	250Vdc	X7R (EIA)	6800pF±10%	2	1.25	1	0.7mm	0.3mm min.
GRJ21BR72E103KWJ3L	250Vdc	X7R (EIA)	10000pF±10%	2	1.25	1.45	0.7mm	0.3mm min.
GRJ21BR72E153KWJ3L	250Vdc	X7R (EIA)	15000pF±10%	2	1.25	1.45	0.7mm	0.3mm min.
GRJ31BR72E153KWJ1L	250Vdc	X7R (EIA)	15000pF±10%	3.2	1.6	1.25	1.2mm	0.3mm min.
GRJ21BR72E223KWJ3L	250Vdc	X7R (EIA)	22000pF±10%	2	1.25	1.45	0.7mm	0.3mm min.
GRJ31BR72E223KWJ1L	250Vdc	X7R (EIA)	22000pF±10%	3.2	1.6	1.25	1.2mm	0.3mm min.
GRJ31CR72E333KWJ3L	250Vdc	X7R (EIA)	33000pF±10%	3.2	1.6	1.8	1.2mm	0.3mm min.
GRJ31CR72E473KWJ3L	250Vdc	X7R (EIA)	47000pF±10%	3.2	1.6	1.8	1.2mm	0.3mm min.
GRJ31BR72E683KWJ1L	250Vdc	X7R (EIA)	68000pF±10%	3.2	1.6	1.25	1.2mm	0.3mm min.
GRJ32QR72E683KWJ1L	250Vdc	X7R (EIA)	68000pF±10%	3.2	2.5	1.5	1.2mm	0.3mm min.
GRJ31CR72E104KWJ3L	250Vdc	X7R (EIA)	0.10µF±10%	3.2	1.6	1.8	1.2mm	0.3mm min.
GRJ32DR72E104KWJ1L	250Vdc	X7R (EIA)	0.10µF±10%	3.2	2.5	2	1.2mm	0.3mm min.
GRJ32QR72E154KWJ1L	250Vdc	X7R (EIA)	0.15µF±10%	3.2	2.5	1.5	1.2mm	0.3mm min.
GRJ43QR72E154KWJ1L	250Vdc	X7R (EIA)	0.15µF±10%	4.5	3.2	1.5	2.2mm	0.3mm min.
GRJ32DR72E224KWJ1L	250Vdc	X7R (EIA)	0.22µF±10%	3.2	2.5	2	1.2mm	0.3mm min.
GRJ43DR72E224KWJ1L	250Vdc	X7R (EIA)	0.22µF±10%	4.5	3.2	2	2.2mm	0.3mm min.
GRJ43DR72E334KWJ1L	250Vdc	X7R (EIA)	0.33µF±10%	4.5	3.2	2	2.2mm	0.3mm min.
GRJ55DR72E334KWJ1L	250Vdc	X7R (EIA)	0.33µF±10%	5.7	5	2	3.2mm	0.3mm min.
GRJ43DR72E474KWJ1L	250Vdc	X7R (EIA)	0.47µF±10%	4.5	3.2	2	2.2mm	0.3mm min.
GRJ55DR72E474KWJ1L	250Vdc	X7R (EIA)	0.47µF±10%	5.7	5	2	3.2mm	0.3mm min.
GRJ55DR72E684KWJ1L	250Vdc	X7R (EIA)	0.68µF±10%	5.7	5	2	3.2mm	0.3mm min.
GRJ55DR72E105KWJ1L	250Vdc	X7R (EIA)	1.0µF±10%	5.7	5	2	3.2mm	0.3mm min.





GRJ55DR73A683KWJ1L

GRJ55DR73A104KWJ1L

1000Vdc

1000Vdc

X7R (EIA)

X7R (EIA)

68000pF±10%

 $0.10 \mu F \pm 10\%$

5.7

5.7

5

5

2

2

3.2mm

3.2mm

0.3mm min.

0.3mm min.

Part Number	Rated Voltage	TC Code (Standard)	Capacitance	Length L (mm)	Width W (mm)	Thickness T max. (mm)	Electrode g min.	Electrode e
GRJ31BR72J102KWJ1L	630Vdc	X7R (EIA)	1000pF±10%	3.2	1.6	1.25	1.2mm	0.3mm min.
GRJ31BR72J152KWJ1L	630Vdc	X7R (EIA)	1500pF±10%	3.2	1.6	1.25	1.2mm	0.3mm min.
GRJ31BR72J222KWJ1L	630Vdc	X7R (EIA)	2200pF±10%	3.2	1.6	1.25	1.2mm	0.3mm min.
GRJ31BR72J332KWJ1L	630Vdc	X7R (EIA)	3300pF±10%	3.2	1.6	1.25	1.2mm	0.3mm min.
GRJ31BR72J472KWJ1L	630Vdc	X7R (EIA)	4700pF±10%	3.2	1.6	1.25	1.2mm	0.3mm min.
GRJ31BR72J682KWJ1L	630Vdc	X7R (EIA)	6800pF±10%	3.2	1.6	1.25	1.2mm	0.3mm min.
GRJ31BR72J103KWJ1L	630Vdc	X7R (EIA)	10000pF±10%	3.2	1.6	1.25	1.2mm	0.3mm min.
GRJ31CR72J153KWJ3L	630Vdc	X7R (EIA)	15000pF±10%	3.2	1.6	1.8	1.2mm	0.3mm min.
GRJ31CR72J223KWJ3L	630Vdc	X7R (EIA)	22000pF±10%	3.2	1.6	1.8	1.2mm	0.3mm min.
GRJ32QR72J223KWJ1L	630Vdc	X7R (EIA)	22000pF±10%	3.2	2.5	1.5	1.2mm	0.3mm min.
GRJ32DR72J333KWJ1L	630Vdc	X7R (EIA)	33000pF±10%	3.2	2.5	2	1.2mm	0.3mm min.
GRJ32DR72J473KWJ1L	630Vdc	X7R (EIA)	47000pF±10%	3.2	2.5	2	1.2mm	0.3mm min.
GRJ43QR72J683KWJ1L	630Vdc	X7R (EIA)	68000pF±10%	4.5	3.2	1.5	2.2mm	0.3mm min.
GRJ43DR72J104KWJ1L	630Vdc	X7R (EIA)	0.10µF±10%	4.5	3.2	2	2.2mm	0.3mm min.
GRJ55DR72J154KWJ1L	630Vdc	X7R (EIA)	0.15µF±10%	5.7	5	2	3.2mm	0.3mm min.
GRJ55DR72J224KWJ1L	630Vdc	X7R (EIA)	0.22µF±10%	5.7	5	2	3.2mm	0.3mm min.
GRJ31BR73A471KWJ1L	1000Vdc	X7R (EIA)	470pF±10%	3.2	1.6	1.25	1.2mm	0.3mm min.
GRJ31BR73A681KWJ1L	1000Vdc	X7R (EIA)	680pF±10%	3.2	1.6	1.25	1.2mm	0.3mm min.
GRJ31BR73A102KWJ1L	1000Vdc	X7R (EIA)	1000pF±10%	3.2	1.6	1.25	1.2mm	0.3mm min.
GRJ31BR73A152KWJ1L	1000Vdc	X7R (EIA)	1500pF±10%	3.2	1.6	1.25	1.2mm	0.3mm min.
GRJ31BR73A222KWJ1L	1000Vdc	X7R (EIA)	2200pF±10%	3.2	1.6	1.25	1.2mm	0.3mm min.
GRJ31BR73A332KWJ1L	1000Vdc	X7R (EIA)	3300pF±10%	3.2	1.6	1.25	1.2mm	0.3mm min.
GRJ31BR73A472KWJ1L	1000Vdc	X7R (EIA)	4700pF±10%	3.2	1.6	1.25	1.2mm	0.3mm min.
GRJ31CR73A682KWJ3L	1000Vdc	X7R (EIA)	6800pF±10%	3.2	1.6	1.8	1.2mm	0.3mm min.
GRJ32QR73A682KWJ1L	1000Vdc	X7R (EIA)	6800pF±10%	3.2	2.5	1.5	1.2mm	0.3mm min.
GRJ31CR73A103KWJ3L	1000Vdc	X7R (EIA)	10000pF±10%	3.2	1.6	1.8	1.2mm	0.3mm min.
GRJ32QR73A103KWJ1L	1000Vdc	X7R (EIA)	10000pF±10%	3.2	2.5	1.5	1.2mm	0.3mm min.
GRJ32DR73A153KWJ1L	1000Vdc	X7R (EIA)	15000pF±10%	3.2	2.5	2	1.2mm	0.3mm min.
GRJ32DR73A223KWJ1L	1000Vdc	X7R (EIA)	22000pF±10%	3.2	2.5	2	1.2mm	0.3mm min.
GRJ43DR73A333KWJ1L	1000Vdc	X7R (EIA)	33000pF±10%	4.5	3.2	2	2.2mm	0.3mm min.
GRJ43DR73A473KWJ1L	1000Vdc	X7R (EIA)	47000pF±10%	4.5	3.2	2	2.2mm	0.3mm min.



GRJ Series Specifications and Test Methods

No.	Ite	em	Specifications		Test Method
1	Operating Temperatu	ıre Range	-55 to +125°C		-
2	Appearan	nce	No defects or abnormalities	Visual inspection	
3	Dimensio	ns	Within the specified dimensions	Using calipers and	micrometers
4	Dielectric	: Strength	No defects or abnormalities	applied between th	e observed when voltage in the Table is e terminations for 1 to 5 sec., provided the surrent is less than 50mA. Test Voltage 200% of the rated voltage 150% of the rated voltage 120% of the rated voltage
5	Insulation F (I.R.)	Resistance	C≧0.01μF: More than 100MΩ • μF C<0.01μF: More than 10,000MΩ		stance should be measured with DC500±50V se of rated voltage: DC250V) and within 60±5
6	Capacitar	nce	Within the specified tolerance		
7	Dissipation Factor (D.		0.025 max.		.F. should be measured at a frequency of ltage of AC1±0.2V(r.m.s.).
8	Capacitar Temperat Character	ture	Cap. Change Within ±15% (Temp. Range: -55 to +125°C)	Step 1 2 3 4 5 Pretreatment Perform a heat tre let sit for 24±2 hrs Solder the capacito in Fig. 1.	reasurement should be made at each step ole. Temperature (°C) 25±2 Min. Operating Temp.±3 25±2 Max. Operating Temp.±2 25±2 eatment at 150±20°C for 60±5 min. and then s. at room condition.* To to the testing jig (glass epoxy board) shown are in the direction of the arrow.
9	Adhesive of Termin	ation	No removal of the terminations or other defect should occur.	should be conducted and free of defects	ald be done using the reflow method and ed with care so that the soldering is uniform such as heat shock. 10N, 10±1s Glass Epoxy Board Fig. 1
		Appearance	No defects or abnormalities		or to the test jig (glass epoxy board). Ild be subjected to a simple harmonic motion
		Capacitance	Within the specified tolerance		itude of 1.5mm, the frequency being varied
10	Vibration Resistance	D.F.	0.025 max.	frequency range, fr traversed in approx for a period of 2 hrs directions (total of 6	the approximate limits of 10 and 55Hz. The om 10 to 55Hz and return to 10Hz, should be simately 1 min. This motion should be applied in each of 3 mutually perpendicular in ea

^{* &}quot;Room condition" Temperature: 15 to 35°C, Relative humidity: 45 to 75%, Atmospheric pressure: 86 to 106kPa





GRJ Series Specifications and Test Methods

 $\begin{tabular}{|c|c|c|c|}\hline \searrow \\\hline \end{tabular}$ Continued from the preceding page.

\overline{A}	Continued fr	om the prece	eding page.					
No.	lte	em	Specifications	Test Method				
11	Deflection	Appearance Capacitance Change	No marking defects Within ±12.5%	Solder the capacitor to the testing jig (glass epoxy board) shown in Fig. 2. Then apply a force in the direction shown in Fig. 3. The soldering should be done using the reflow method and should be conducted with care so that the soldering is uniform and free of defects such as heat shock. 20 50 Pressurizing speed: 1.0mm/s Pressurize Pressurize (2mm for 2.0x1.25mm) Fig. 3				
12	Solderab Terminati	•	4.5×3.2 3.5 7.0 3.7 5.7×5.0 4.5 8.0 5.6 75% of the terminations are to be soldered evenly and continuously.	Immerse the capacitor in a solution of ethanol (JIS-K-8101) and rosin (JIS-K-5902) (25% rosin in weight proportion). Immerse in solder solution for 2±0.5 sec. Immersing speed: 25±2.5mm/s Temp. of solder: 245±5°C Lead Free Solder (Sn-3.0Ag-0.5Cu) 235±5°C H60A or H63A Eutectic Solder				
13	Resistance to Soldering Heat	Appearance Capacitance Change D.F. I.R.	No marking defects $Within \pm 10\%$ $0.025 \ max.$ $C {\ge} 0.01 \mu F: More \ than \ 100 M\Omega \bullet \mu F$ $C {<} 0.01 \mu F: More \ than \ 10,000 M\Omega$	Preheat the capacitor at 120 to 150°C* for 1 min. Immerse the capacitor in solder solution at 260±5°C for 10±1 sec. Let sit at room condition* for 24±2 hrs., then measure. •Immersing speed: 25±2.5mm/s •Pretreatment Perform a heat treatment at 150±1%°C for 60±5 min. and then let sit for 24±2 hrs. at room condition.*				
		Dielectric Strength	In accordance with item No.4	*Preheating for more than 3.2×2.5mm Step Temperature Time				
		Appearance Capacitance Change D.F.	No marking defects Within ±7.5% 0.025 max.	Fix the capacitor to the supporting jig (glass epoxy board) shown in Fig. 4. Perform the 5 cycles according to the 4 heat treatments listed in the following table. Let sit for 24±2 hrs. at room condition,* then measure.				
		I.R.	C≥0.01µF: More than 100M Ω • µF C<0.01µF: More than 10,000M Ω	Step Temperature (°C) Time (min.) 1 Min. Operating Temp.±3 30±3 2 Room Temp. 2 to 3				
14	Temperature Cycle	Dielectric Strength	In accordance with item No.4	3 Max. Operating Temp.±2 30±3 4 Room Temp. 2 to 3 • Pretreatment Perform a heat treatment at 150±1%°C for 60±5 min. and then let sit for 24±2 hrs. at room condition.* □□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□				
		Appearance	No marking defects					
	Upmidit.	Capacitance Change	Within ±15%	Let the capacitor sit at 40±2°C and relative humidity of 90 to 95% for 500±2°dhrs.				
15	Humidity (Steady	D.F.	0.05 max.	Remove and let sit for 24±2 hrs. at room condition,* then measure.				
	State)	I.R. Dielectric	C≥0.01μF: More than 10MΩ • μF C<0.01μF: More than 1,000MΩ In accordance with item No.4	•Pretreatment Perform a heat treatment at 150±₁8°C for 60±5 min. and then let sit for 24±2 hrs. at room condition.*				
		Strength						

^{* &}quot;Room condition" Temperature: 15 to 35°C, Relative humidity: 45 to 75%, Atmospheric pressure: 86 to 106kPa





GRJ Series Specifications and Test Methods

Continued from the preceding page.

No.	Ite	em	Specifications		Test Method				
		Appearance	No marking defects	,	Apply voltage as in Table for 1,000 ^{±48} ₆ hrs. at maximum operating temperature ±3°C. Remove and let sit for 24±2 hrs. a				
	Life	Capacitance Change	Within ±15% (rated voltage: DC250V, DC630V) Within ±20% (rated voltage: DC1kV)	room condition,* then					
		D.F.	0.05 max.	Rated Voltage DC250V	Applied Voltage 150% of the rated voltage				
16		I.R.	C≥0.01μF: More than 10MΩ • μF C<0.01μF: More than 1,000MΩ	DC630V DC1kV	120% of the rated voltage 110% of the rated voltage				
		Dielectric Strength	In accordance with item No.4	PretreatmentApply test voltage for	The charge/discharge current is less than 50mA. •Pretreatment Apply test voltage for 60±5 min. at test temperature. Remove and let sit for 24±2 hrs. at room condition.*				
		Appearance	No marking defects						
	Humidity Loading	Capacitance Change	Within ±15%	95% for 500±24hrs.	ge at 40±2°C and relative humidity of 90 to				
17	(Application:	D.F.	0.05 max.	Remove and let sit fo measure.	r 24±2 hrs. at room condition,* then				
	DC250V, DC630V item)	I.R.	C≥0.01μF: More than $10M\Omega \cdot \mu F$ C<0.01μF: More than $1,000M\Omega$	Pretreatment	or 60±5 min. at test temperature.				
	nony	Dielectric Strength	In accordance with item No.4	Remove and let sit f	or 24±2 hrs. at room condition.*				

^{* &}quot;Room condition" Temperature: 15 to 35°C, Relative humidity: 45 to 75%, Atmospheric pressure: 86 to 106kPa



Only for Applications

Chip Monolithic Ceramic Capacitors (Medium Voltage)

Large Capacitance and High Allowable Ripple Current GR3 Series



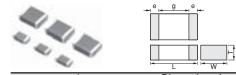
■ Features

- 1. This series can provide higher capacitance value under DC-Bias condition, compare with previous X7R char.
- 2. Improve the performance of ripple-resistance compared with X7R char.
- 3. Reduce acoustic noise.
- 4. High reliability for board bending stress
- 5. Sn-plated external electrodes provide good soldering, and other types with reflow soldering only.
- 6. Use the GR321/331 types with flow or reflow soldering, and other types with reflow soldering only.

Applications

- 1. DC smoothing & EMI filiter for LED Lighting.
- 2. For PFC circuit in the swiching power supplies,
- 3. DC-DC converter for general electronic equipment.

Do not use these products in any Automotive Power train or Safety equipment incliding Battery chargers for Electric Vehicles and Plug-in Hybrids. Only Murata products clearly stipulated as "for Automotive use" can be used for automobile appliations such as Power train and Safety equipment.



Part Number		Din	nensions (mm	1)	
Fart Number	L	W	Т	е	g min.
GR321A	2.0±0.2	1.25±0.2	1.0+0,-0.3		0.7
GR321B	2.0±0.2	1.25±0.2	1.25±0.2		0.7
GR331A			1.0+0,-0.3		
GR331B	3.2±0.2	1.6±0.2	1.25+0,-0.3	0.3 min.	
GR331C			1.6±0.2		1.2
GR332Q	3.2±0.3		1.5+0,-0.3		
GR332D	3.2±0.3	2.5±0.2	2.0+0,-0.3		
GR343Q	4.5±0.4	3.2±0.3	1.5+0,-0.3		2.2
GR343D	4.5±0.4	3.2±0.3	2.0+0,-0.3	1	2.2
GR355D	5.7±0.4	5.0±0.4	2.0+0,-0.3		3.2
GR355X	5.7 £0.4	5.010.4	2.7+0,-0.3		3.2

Part Number	Rated Voltage	TC Code (Standard)	Capacitance	Length L (mm)	Width W (mm)	Thickness T max. (mm)	Electrode g min.	Electrode e
GR321AD72E103KW01D	250Vdc	X7T (EIA)	10000pF±10%	2	1.25	1	0.7mm	0.3mm min.
GR321AD72E153KW01D	250Vdc	X7T (EIA)	15000pF±10%	2	1.25	1	0.7mm	0.3mm min.
GR321BD72E223KW03L	250Vdc	X7T (EIA)	22000pF±10%	2	1.25	1.45	0.7mm	0.3mm min.
GR331AD72E333KW01D	250Vdc	X7T (EIA)	33000pF±10%	3.2	1.6	1	1.2mm	0.3mm min.
GR331BD72E473KW01L	250Vdc	X7T (EIA)	47000pF±10%	3.2	1.6	1.25	1.2mm	0.3mm min.
GR331CD72E683KW03L	250Vdc	X7T (EIA)	68000pF±10%	3.2	1.6	1.8	1.2mm	0.3mm min.
GR332QD72E104KW01L	250Vdc	X7T (EIA)	0.10µF±10%	3.2	2.5	1.5	1.2mm	0.3mm min.
GR332DD72E154KW01L	250Vdc	X7T (EIA)	0.15µF±10%	3.2	2.5	2	1.2mm	0.3mm min.
GR343QD72E224KW01L	250Vdc	X7T (EIA)	0.22µF±10%	4.5	3.2	1.5	2.2mm	0.3mm min.
GR343DD72E334KW01L	250Vdc	X7T (EIA)	0.33µF±10%	4.5	3.2	2	2.2mm	0.3mm min.
GR355DD72E474KW01L	250Vdc	X7T (EIA)	0.47µF±10%	5.7	5.0	2	3.2mm	0.3mm min.
GR355DD72E684KW01L	250Vdc	X7T (EIA)	0.68µF±10%	5.7	5.0	2	3.2mm	0.3mm min.
GR355XD72E105KW05L	250Vdc	X7T (EIA)	1.0µF±10%	5.7	5.0	2.7	3.2mm	0.3mm min.
GR331AD72W103KW01D	450Vdc	X7T (EIA)	10000pF±10%	3.2	1.6	1	1.2mm	0.3mm min.
GR331AD72W153KW01D	450Vdc	X7T (EIA)	15000pF±10%	3.2	1.6	1	1.2mm	0.3mm min.
GR331BD72W223KW01L	450Vdc	X7T (EIA)	22000pF±10%	3.2	1.6	1.25	1.2mm	0.3mm min.
GR331BD72W333KW01L	450Vdc	X7T (EIA)	33000pF±10%	3.2	1.6	1.25	1.2mm	0.3mm min.
GR331CD72W473KW03L	450Vdc	X7T (EIA)	47000pF±10%	3.2	1.6	1.8	1.2mm	0.3mm min.
GR332DD72W683KW01L	450Vdc	X7T (EIA)	68000pF±10%	3.2	2.5	2	1.2mm	0.3mm min.
GR332DD72W104KW01L	450Vdc	X7T (EIA)	0.10µF±10%	3.2	2.5	2	1.2mm	0.3mm min.
GR343DD72W154KW01L	450Vdc	X7T (EIA)	0.15µF±10%	4.5	3.2	2	2.2mm	0.3mm min.
GR355DD72W224KW01L	450Vdc	X7T (EIA)	0.22µF±10%	5.7	5.0	2	3.2mm	0.3mm min.
GR355DD72W334KW01L	450Vdc	X7T (EIA)	0.33µF±10%	5.7	5.0	2	3.2mm	0.3mm min.
GR355DD72W474KW01L	450Vdc	X7T (EIA)	0.47µF±10%	5.7	5.0	2	3.2mm	0.3mm min.
GR355XD72W564KW05L	450Vdc	X7T (EIA)	0.56µF±10%	5.7	5.0	2.7	3.2mm	0.3mm min.

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Ontinued from the preceding p	age.
Part Number	Ra

Part Number	Rated Voltage	TC Code (Standard)	Capacitance	Length L (mm)	Width W (mm)	Thickness T max. (mm)	Electrode g min.	Electrode e
GR331BD72J103KW01L	630Vdc	X7T (EIA)	10000pF±10%	3.2	1.6	1.25	1.2mm	0.3mm min.
GR331CD72J153KW03L	630Vdc	X7T (EIA)	15000pF±10%	3.2	1.6	1.8	1.2mm	0.3mm min.
GR332QD72J223KW01L	630Vdc	X7T (EIA)	22000pF±10%	3.2	2.5	1.5	1.2mm	0.3mm min.
GR332DD72J333KW01L	630Vdc	X7T (EIA)	33000pF±10%	3.2	2.5	2	1.2mm	0.3mm min.
GR332DD72J473KW01L	630Vdc	X7T (EIA)	47000pF±10%	3.2	2.5	2	1.2mm	0.3mm min.
GR343DD72J683KW01L	630Vdc	X7T (EIA)	68000pF±10%	4.5	3.2	2	2.2mm	0.3mm min.
GR355DD72J104KW01L	630Vdc	X7T (EIA)	0.1µF±10%	5.7	5.0	2	3.2mm	0.3mm min.
GR355DD72J154KW01L	630Vdc	X7T (EIA)	0.15µF±10%	5.7	5.0	2	3.2mm	0.3mm min.
GR355XD72J224KW05L	630Vdc	X7T (EIA)	0.22µF±10%	5.7	5.0	2.7	3.2mm	0.3mm min.
GR355XD72J274KW05L	630Vdc	X7T (EIA)	0.27µF±10%	5.7	5.0	2.7	3.2mm	0.3mm min.

GR3 Series Specifications and Test Methods

No.	Ite	em	Specifications		Test Method
1	Operating Temperatu	ıre Range	−55 to +125°C		-
2	Appearan	nce	No defects or abnormalities	Visual inspection	
3	Dimensio	ns	Within the specified dimensions	Using calipers and	micrometers
4	Dimensions Dielectric Strer	Strength	No defects or abnormalities	between the termina	e observed when voltage in Table is applied ations for 1 to 5 sec., provided the urrent is less than 50mA. Test Voltage 200% of the rated voltage 150% of the rated voltage 120% of the rated voltage
The insulation resistance should be measured with (DC250±25V in case of rated voltage: DC250V, DC within 60±5 sec. of charging.				e of rated voltage: DC250V, DC450V) and	
6	Capacitar	nce	Within the specified tolerance		
7			0.01 max.		F. should be measured at a frequency of tage of AC1±0.2V(r.m.s.).
8	Temperat	ture	Cap. Change Within ±ểể% (Temp. Range: –55 to +125°C)	Step 1 2 3 4 5 Pretreatment Perform a heat tre	easurement should be made at each step le. Temperature (°C) 25±2 Min. Operating Temp.±3 25±2 Max. Operating Temp.±2 25±2 atment at 150±9°C for 60±5 min. and then at room condition.*
9	Adhesive of Termin		No removal of the terminations or other defect should occur.	in Fig. 1. Then apply 10N ford The soldering shoul	to the testing jig (glass epoxy board) shown ce in the direction of the arrow. d be done using the reflow method and d with care so that the soldering is uniform such as heat shock. 10N, 10±1s Glass Epoxy Board Fig. 1
		Appearance	No defects or abnormalities	Solder the capacito	r to the test jig (glass epoxy board).
		Capacitance	Within the specified tolerance	The capacitor shoul	d be subjected to a simple harmonic motion
10	Vibration Resistance	D.F.	0.01 max.	uniformly between the frequency range, from the traversed in approximation of 2 hrs directions (total of 6 hrs.)	tude of 1.5mm, the frequency being varied he approximate limits of 10 and 55Hz. The om 10 to 55Hz and return to 10Hz, should be mately 1 min. This motion should be applied in each of 3 mutually perpendicular thrs.). Solder resist Cu Blass Epoxy Board

^{* &}quot;Room condition" Temperature: 15 to 35°C, Relative humidity: 45 to 75%, Atmospheric pressure: 86 to 106kPa





GR3 Series Specifications and Test Methods

$ \mathcal{A} $	Continued fro	om the prece	eding page.			
No.	Ite	em	Specifications	Test Method		
11	11 Deflection		No marking defects	Solder the capacitor to the testing jig (glass epoxy board) shown in Fig. 2. Then apply a force in the direction shown in Fig. 3. The soldering should be done using the reflow method and should be conducted with care so that the soldering is uniform and free of defects such as heat shock. 20 50 Pressurizing speed: 1.0mm/s pressurize Pressurize Flexure=2 (1mm for 2.0×1.25mm) Capacitance meter 45 (in mm) Fig. 3		
12	Solderabi Terminati		75% of the terminations are to be soldered evenly and continuously.	Immerse the capacitor in a solution of ethanol (JIS-K-8101) and rosin (JIS-K-5902) (25% rosin in weight proportion). Immerse in solder solution for 2±0.5 sec. Immersing speed: 25±2.5mm/s Temp. of solder: 245±5°C Lead Free Solder (Sn-3.0Ag-0.5Cu) 235±5°C H60A or H63A Eutectic Solder		
		Appearance Capacitance Change	No marking defects Within ±10%	Preheat the capacitor at 120 to 150°C* for 1 min. Immerse the capacitor in solder solution at 260±5°C for 10±1 sec. Let sit at room condition* for 24±2 hrs., then measure. •Immersing speed: 25±2.5mm/s		
	Resistance to Soldering Heat	D.F.	0.01 max.	Pretreatment		
13		I.R.	More than 10,000M Ω or 100M Ω • μ F (Whichever is smaller)	Perform a heat treatment at 150±1% C for 60±5 min. and then let sit for 24±2 hrs. at room condition.*		
		Dielectric Strength	In accordance with item No.4	*Preheating for more than 3.2×2.5mm Step Temperature Time 1		
		Appearance	No marking defects	Fix the capacitor to the supporting jig (glass epoxy board) shown		
		Capacitance Change	Within ±7.5%	in Fig. 4. Perform the 5 cycles according to the 4 heat treatments listed in the following table.		
		D.F.	0.01 max.	Let sit for 24±2 hrs. at room condition,* then measure. Step Temperature (°C) Time (min.)		
		I.R.	More than 10,000MΩ or 100MΩ • μF (Whichever is smaller)	Step Temperature (°C) Time (min.) 1 Min. Operating Temp. + 3 30±3		
				2 Room Temp. 2 to 3		
	T			3 Max. Operating Temp. ± 3 30±3 4 Room Temp. 2 to 3		
14	Temperature Cycle			• Pretreatment Perform a heat treatment at 150±1%°C for 60±5 min. and then let sit for 24±2 hrs. at room condition.* Solder resist Glass Epoxy Board Fig. 4		
		Appearance	No marking defects			
	Humidity	Capacitance Change	Within ±12.5%	Let the capacitor sit at 40±2°C and relative humidity of 90 to 95% for 500±26hrs. Remove and let sit for 24±2 hrs. at room condition,* then		
15	(Steady	D.F.	0.02 max.	measure.		
	State)	I.R.	More than 1,000M Ω or 10M Ω • μ F (Whichever is smaller)	•Pretreatment Perform a heat treatment at 150±10°C for 60±5 min. and then		
		Dielectric Strength	In accordance with item No.4	let sit for 24±2 hrs. at room condition.*		

^{* &}quot;Room condition" Temperature: 15 to 35°C, Relative humidity: 45 to 75%, Atmospheric pressure: 86 to 106kPa





GR3 Series Specifications and Test Methods

Continued from the preceding page.

No	Ite	em	Specifications	Test Method			
		Appearance	No marking defects	Apply voltage as Table for 1,000±48 hrs. at maximum			
		Capacitance Change	Within ±12.5%	operating temperature ±3°C. Remove and let sit for 24±2hrs. at room condition,* then measure.			
		D.F.	0.02 max.	Pated Voltage Applied Voltage DC250V 150% of the rated voltage			
16	Life	I.R.	More than 1,000M Ω or 10M Ω • μ F (Whichever is smaller)	DC450V 130% of the rated voltage			
		Dielectric Strength	In accordance with item No.4	DC630V 120% of the rated voltage The charge/discharge current is less than 50mA. •Pretreatment Apply test voltage for 60±5 min. at test temperature. Remove and let sit for 24±2 hrs. at room condition.*			
		Appearance	No marking defects				
		Capacitance Change	Within ±12.5%	Apply the rated voltage at 40±2°C and relative humidity of 90 to 95% for 500±24hrs. Remove and let sit for 24±2 hrs. at room condition.* then			
17	Humidity Loading	D.F.	0.02 max.	measure.			
	Loading	I.R.	More than 1,000M Ω or 10M Ω • μ F (Whichever is smaller)	Pretreatment Apply test voltage for 60±5 min. at test temperature.			
		Dielectric Strength	In accordance with item No.4	Remove and let sit for 24±2 hrs. at room condition.*			

^{* &}quot;Room condition" Temperature: 15 to 35°C, Relative humidity: 45 to 75%, Atmospheric pressure: 86 to 106kPa



Chip Monolithic Ceramic Capacitors (Medium Voltage)

For LCD Backlight Inverter Circuit GRM/DC3.15kV Series

Features

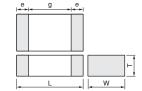
- 1. Low-loss and suitable for high frequency circuits
- 2. Murata's original internal electrode structure realizes high flash-over voltage.
- A new monolithic structure for small, surfacemountable devices capable of operating at high voltage levels.
- 4. Sn-plated external electrodes realize good solderability.
- 5. Only for reflow soldering
- Capacitance values less than 22pF can be used in LCD backlight inverter circuits as long as the applied voltage, peak to peak, is less than 4.0kV at 100kHz or less.

Applications

Ideal for use as the ballast in LCD backlight inverter.

Do not use these products in any Automotive Power train or Safety equipment including Battery chargers for Electric Vehicles and Plug-in Hybrids. Only Murata products clearly stipulated as "for Automotive use" can be used for automobile applications such as Power train and Safety equipment.





Part Number		Dim	ensions (mm)	
Fait Number	L	W	Т	e min.	g min.
GRM42A	4.5 ±0.3	2.0 ±0.2	1.0 +0, -0.3	0.3	2.9

Part Number	Rated Voltage	TC Code (Standard)	Capacitance	Length L (mm)	Width W (mm)	Thickness T max. (mm)	Electrode g min.	Electrode e
GRM42A5C3F050DW01L	3150Vdc	C0G (EIA)	5.0pF±0.5pF	4.5	2.0	1	2.9mm	0.3mm min.
GRM42A5C3F100JW01L	3150Vdc	C0G (EIA)	10pF±5%	4.5	2.0	1	2.9mm	0.3mm min.
GRM42A5C3F120JW01L	3150Vdc	C0G (EIA)	12pF±5%	4.5	2.0	1	2.9mm	0.3mm min.
GRM42A5C3F150JW01L	3150Vdc	C0G (EIA)	15pF±5%	4.5	2.0	1	2.9mm	0.3mm min.
GRM42A5C3F180JW01L	3150Vdc	C0G (EIA)	18pF±5%	4.5	2.0	1	2.9mm	0.3mm min.
GRM42A5C3F220JW01L	3150Vdc	C0G (EIA)	22pF±5%	4.5	2.0	1	2.9mm	0.3mm min.
GRM42A5C3F270JW01L	3150Vdc	C0G (EIA)	27pF±5%	4.5	2.0	1	2.9mm	0.3mm min.
GRM42A5C3F330JW01L	3150Vdc	C0G (EIA)	33pF±5%	4.5	2.0	1	2.9mm	0.3mm min.
GRM42A5C3F390JW01L	3150Vdc	C0G (EIA)	39pF±5%	4.5	2.0	1	2.9mm	0.3mm min.
GRM42A5C3F470JW01L	3150Vdc	C0G (EIA)	47pF±5%	4.5	2.0	1	2.9mm	0.3mm min.



GRM/DC3.15kV Series Specifications and Test Methods

No.	Ite	em	Specifications	Test Method		
1	Operating Temperatu	ıre Range	-55 to +125°C	-		
2	Appearan	ice	No defects or abnormalities	Visual inspection		
3	Dimensio	ns	Within the specified dimension	Using calipers and micrometers		
4	Dielectric	Strength	No defects or abnormalities	No failure should be observed when DC4095V is applied between the terminations for 1 to 5 sec., provided the charge/discharge current is less than 50mA.		
5	Insulation Resistance (I.R.)		More than 10,000M Ω	The insulation resistance should be measured with DC500±50V and within 60±5 sec. of charging.		
6	Capacita	nce	Within the specified tolerance	The capacitance/Q should be measured at a frequency of		
7	Q		1,000 min.	1±0.2MHz and a voltage of AC0.5 to 5V(r.m.s.).		
	Capacita	200	Temp. Coefficient	The capacitance measurement should be made at each step specified in the Table. Step Temperature (°C)		
8	Temperat		0±30ppm/°C (Temp. Range: +25 to +125°C)	1 25±2		
	Characte		0+30, -72ppm/°C (Temp. Range: -55 to +25°C)	2 Min. Operating Temp.±3 3 25±2		
				4 Max. Operating Temp.±2		
				5 25±2		
9	Adhesive Strengt of Termination		No removal of the terminations or other defect should occur.	Solder the capacitor to the testing jig (glass epoxy board) shown in Fig. 1. Then apply 10N force in the direction of the arrow. The soldering should be done using the reflow method and should be conducted with care so that the soldering is uniform and free of defects such as heat shock.		
				Glass Epoxy Board		
				Fig. 1		
		Appearance	No defects or abnormalities	Solder the capacitor to the test jig (glass epoxy board). The capacitor should be subjected to a simple harmonic motion		
10	Vibration Resistance	Capacitance Q	1,000 min.	having a total amplitude of 1.5mm, the frequency being varied uniformly between the approximate limits of 10 and 55Hz. The frequency range, from 10 to 55Hz and return to 10Hz, should be traversed in approximately 1 min. This motion should be applied for a period of 2 hrs. in each of 3 mutually perpendicular directions (total of 6 hrs.).		
				Solder resist Glass Epoxy Board		
11	Deflection		No marking defects	Solder the capacitor to the testing jig (glass epoxy board) shown in Fig. 2. Then apply a force in the direction shown in Fig. 3. The soldering should be done using the reflow method and should be conducted with care so that the soldering is uniform and free of defects such as heat shock. 20 50 Pressurizing speed: 1.0mm/s		
11	Denection		Fig. 2 L×W Dimension (mm)	Pressurize Flexure=1 Capacitance meter 45 (in mm)		
				Fig. 3		





AC250V Type GA2 Series

GRM/DC3.15kV Series Specifications and Test Methods

Continued from the preceding page.

No.	Ite	em	Specifications	Test Method
12	Solderabi Terminati	-	75% of the terminations are to be soldered evenly and continuously.	Immerse the capacitor in a solution of ethanol (JIS-K-8101) and rosin (JIS-K-5902) (25% rosin in weight proportion). Immerse in solder solution for 2±0.5 sec. Immersing speed: 25±2.5mm/s Temp. of solder: 245±5°C Lead Free Solder (Sn-3.0Ag-0.5Cu) 235±5°C H60A or H63A Eutectic Solder
		Appearance	No marking defects	Preheat the capacitor as in table.
	Resistance	Capacitance Change	Within ±2.5%	Immerse the capacitor in solder solution at 260±5°C for 10±1 sec. Let sit at room condition* for 24±2 hrs., then measure. •Immersing speed: 25±2.5mm/s
13	to Soldering	Q	1,000 min.	
	Heat	I.R.	More than 10,000M Ω	*Preheating
		Dielectric Strength	In accordance with item No.4	Step Temperature Time 1 100 to 120°C 1 min. 2 170 to 200°C 1 min.
		Appearance	No marking defects	Fix the capacitor to the supporting jig (glass epoxy board) shown
		Capacitance Change	Within ±2.5%	in Fig. 4. Perform the 5 cycles according to the 4 heat treatments listed in the following table.
		Q	1,000 min.	Let sit for 24±2 hrs. at room condition,* then measure.
		I.R.	More than $10,000M\Omega$	Step Temperature (°C) Time (min.)
14	Temperature Cycle	Dielectric Strength	In accordance with item No.4	1 Min. Operating Temp.±3 30±3 2 Room Temp. 2 to 3 3 Max. Operating Temp.±2 30±3 4 Room Temp. 2 to 3
		Appearance	No marking defects	Fig. 4
	I I i alita	Capacitance Change	Within ±5.0%	Let the capacitor sit at 40±2°C and relative humidity of 90 to 95%
15	Humidity (Steady	Q	350 min.	for 500 ^{±2} 6hrs.
	State)	I.R.	More than 1,000MΩ	Remove and let sit for 24±2 hrs. at room condition,* then measure.
		Dielectric Strength	In accordance with item No.4	
		Appearance	No marking defects	
		Capacitance Change	Within ±3.0%	Apply 120% of the rated voltage for 1,000 ^{±48} / _o hrs. at maximum operating temperature ±3°C.
16	Life	Q	350 min.	Remove and let sit for 24±2 hrs. at room condition,* then
		I.R.	More than 1,000M Ω	measure. The charge/discharge current is less than 50mA.
		Dielectric Strength	In accordance with item No.4	The charge/discharge current is less than sonia.

^{* &}quot;Room condition" Temperature: 15 to 35°C, Relative humidity: 45 to 75%, Atmospheric pressure: 86 to 106kPa



Chip Monolithic Ceramic Capacitors (Medium Voltage)

For Information Devices GR4 Series

■ Features

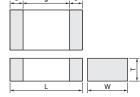
- These items are designed specifically for telecommunications devices (IEEE802.3) in Ethernet LAN and primary-secondary coupling for DC-DC converters.
- 2. A new monolithic structure for small, high capacitance capable of operating at high voltage levels
- 3. Sn-plated external electrodes realize good solderability.
- 4. Only for reflow soldering

Applications

- Ideal for use on telecommunications devices in Ethernet LAN
- 2. Ideal for use as primary-secondary coupling for DC-DC converters

Do not use these products in any Automotive Power train or Safety equipment including Battery charger for Electric Vehicles and Plug-in Hybrid. Only Murata products clearly stipulated as "for Automotive use" can be used for automobile applications such as Power train and Safety equipment.





Doub Number	Dimensions (mm)							
Part Number	L	W	T	e min.	g min.			
GR442Q	4.5 ±0.3	2.0 ±0.2	1.5 +0, -0.3		2.5			
GR443D	4.5 ±0.4	00.00	2.0 +0, -0.3	0.3				
GR443Q	4.5 ±0.4	3.2 ±0.3	1.5 +0, -0.3	0.3				
GR455D	5.7 ±0.4	5.0 ±0.4	2.0 +0, -0.3		3.2			

Part Number	Rated Voltage	TC Code (Standard)	Capacitance	Length L (mm)	Width W (mm)	Thickness T max. (mm)	Electrode g min.	Electrode e
GR442QR73D101KW01L	2000Vdc	X7R (EIA)	100pF±10%	4.5	2	1.5	2.5mm	0.3mm min.
GR442QR73D121KW01L	2000Vdc	X7R (EIA)	120pF±10%	4.5	2	1.5	2.5mm	0.3mm min.
GR442QR73D151KW01L	2000Vdc	X7R (EIA)	150pF±10%	4.5	2	1.5	2.5mm	0.3mm min.
GR442QR73D181KW01L	2000Vdc	X7R (EIA)	180pF±10%	4.5	2	1.5	2.5mm	0.3mm min.
GR442QR73D221KW01L	2000Vdc	X7R (EIA)	220pF±10%	4.5	2	1.5	2.5mm	0.3mm min.
GR442QR73D271KW01L	2000Vdc	X7R (EIA)	270pF±10%	4.5	2	1.5	2.5mm	0.3mm min.
GR442QR73D331KW01L	2000Vdc	X7R (EIA)	330pF±10%	4.5	2	1.5	2.5mm	0.3mm min.
GR442QR73D391KW01L	2000Vdc	X7R (EIA)	390pF±10%	4.5	2	1.5	2.5mm	0.3mm min.
GR442QR73D471KW01L	2000Vdc	X7R (EIA)	470pF±10%	4.5	2	1.5	2.5mm	0.3mm min.
GR442QR73D561KW01L	2000Vdc	X7R (EIA)	560pF±10%	4.5	2	1.5	2.5mm	0.3mm min.
GR442QR73D681KW01L	2000Vdc	X7R (EIA)	680pF±10%	4.5	2	1.5	2.5mm	0.3mm min.
GR442QR73D821KW01L	2000Vdc	X7R (EIA)	820pF±10%	4.5	2	1.5	2.5mm	0.3mm min.
GR442QR73D102KW01L	2000Vdc	X7R (EIA)	1000pF±10%	4.5	2	1.5	2.5mm	0.3mm min.
GR442QR73D122KW01L	2000Vdc	X7R (EIA)	1200pF±10%	4.5	2	1.5	2.5mm	0.3mm min.
GR442QR73D152KW01L	2000Vdc	X7R (EIA)	1500pF±10%	4.5	2	1.5	2.5mm	0.3mm min.
GR443QR73D182KW01L	2000Vdc	X7R (EIA)	1800pF±10%	4.5	3.2	1.5	2.5mm	0.3mm min.
GR443QR73D222KW01L	2000Vdc	X7R (EIA)	2200pF±10%	4.5	3.2	1.5	2.5mm	0.3mm min.
GR443QR73D272KW01L	2000Vdc	X7R (EIA)	2700pF±10%	4.5	3.2	1.5	2.5mm	0.3mm min.
GR443QR73D332KW01L	2000Vdc	X7R (EIA)	3300pF±10%	4.5	3.2	1.5	2.5mm	0.3mm min.
GR443QR73D392KW01L	2000Vdc	X7R (EIA)	3900pF±10%	4.5	3.2	1.5	2.5mm	0.3mm min.
GR443DR73D472KW01L	2000Vdc	X7R (EIA)	4700pF±10%	4.5	3.2	2	2.5mm	0.3mm min.
GR455DR73D103KW01L	2000Vdc	X7R (EIA)	10000pF±10%	5.7	5	2	3.2mm	0.3mm min.

GR4 Series Specifications and Test Methods

No.	Ite	m	Specifications		Test Method		
1	Operating Temperatu	re Range	-55 to +125°C		-		
2	Appearan	се	No defects or abnormalities	Visual inspection			
3	Dimensio	ns	Within the specified dimensions	Using calipers and micrometers No failure should be observed when voltage in the table is			
4	Dialontrio	Oders as with	No defeate ou sha ourselities		e terminations, provided the cl		
4	Dielectric	Strength	No defects or abnormalities	Rated Voltage	Test Voltage	Time	
				DC2kV	120% of the rated voltage AC1500V(r.m.s.)	60±1 sec. 60±1 sec.	
Pulse Voltage No self healing breakdowns or flash-overs have taken place in the capacitor. No self healing breakdowns or flash-overs have taken place in the capacitor. 10 impulses of alternating polarity are subjected. (5 impulses for each polarity) The interval between impulses is 60 sec. Applied Pulse: 1.2/50µs Applied Voltage: 2.5kVo-p							
6	Insulation F (I.R.)	Resistance	More than $6{,}000M\Omega$	The insulation resis and within 60±5 sec	tance should be measured wi c. of charging.	th DC500±50V	
7	Capacitar	nce	Within the specified tolerance	The canacitance/D	E should be measured at a f	requency of	
8	Dissipation Factor (D.		0.025 max.	The capacitance/D.F. should be measured at a frequency of 1±0.2kHz and a voltage of AC1±0.2V(r.m.s.).			
9	Capacitar Temperat Character	ure	Cap. Change within ±15% (Temp. Range: -55 to +125°C)	Step 1 2 3 4 5 Pretreatment Perform a heat treatet sit for 24±2 hrs.	Temperature (°C) 25±2 Min. Operating Temp.±3 25±2 Max. Operating Temp.±2 25±2 eatment at 150 [±] % °C for 60±5 min. and the		
10	Adhesive of Termin	_	No removal of the terminations or other defect should occur.	in Fig. 1. Then apply 10N for The soldering shoul should be conducted.	r to the testing jig (glass epox ce in the direction of the arrow ld be done using the reflow med with care so that the solder such as heat shock.	w. nethod and ring is uniform	
		Appearance	No defects or abnormalities	Solder the capacito	r to the test jig (glass epoxy b	ooard).	
		Capacitance	Within the specified tolerance	'	ld be subjected to a simple hat tude of 1.5mm, the frequency		
11	Vibration Resistance	D.F.	0.025 max.	uniformly between the frequency range, from traversed in approximation for a period of 2 hrs directions (total of 6).	the approximate limits of 10 a om 10 to 55Hz and return to 1 imately 1 min. This motion sh in each of 3 mutually perpe	nd 55Hz. The 0Hz, should be ould be applied ndicular	

^{* &}quot;Room condition" Temperature: 15 to 35°C, Relative humidity: 45 to 75%, Atmospheric pressure: 86 to 106kPa





AC250V Type GA2 Series

GR4 Series Specifications and Test Methods

 $\begin{tabular}{|c|c|c|c|}\hline \end{tabular}$ Continued from the preceding page.

7	Continued fro	om the prece	eding page.								
No.	Ite	em		Sı	pecifications	s			Test Method		
12	Deflection Solderabi Terminati	lity of	LXW (mm) 4.5X2.0 4.5X3.2 5.7X5.0	a 3.5 3.5 4.5	100 Fig. 2 Dimensi b 7.0 7.0 8.0	2.4 3.7 5.6	d 1.0	Solder the capacitor to the testing jig (glass epoxy board) shown in Fig. 2. Then apply a force in the direction shown in Fig. 3. The soldering should be done using the reflow method and should be conducted with care so that the soldering is uniform and free of defects such as heat shock. The soldering should be done using the reflow method and should be conducted with care so that the soldering is uniform and free of defects such as heat shock. The soldering should be done using the reflow method and should be conducted with care so that the soldering is uniform and free of defects such as heat shock. The soldering should be done using the reflow method and should be conducted with care so that the soldering is uniform and free of defects such as heat shock. The soldering should be done using the reflow method and should be conducted with care so that the soldering is uniform and free of defects such as heat shock. The soldering should be done using the reflow method and should be conducted with care so that the soldering is uniform and free of defects such as heat shock. The soldering should be done using the reflow method and should be conducted with care so that the soldering is uniform and free of defects such as heat shock. The soldering should be done using the reflow method and should be conducted with care so that the soldering is uniform and free of defects such as heat shock.		n Fig. 3. flow method and soldering is uniform n/s (in mm) nol (JIS-K-8101) and	
	reminati					-		0 1	eed: 25±2.5mm/s er: 245±5°C Lead Free Solde 235±5°C H60A or H63A E	()	
		Appearance	No marking def	ects					apacitor as in table.	260+5°C for 10+1	
		Capacitance Change	Within ±10%					Immerse the capacitor in solder solution at 260±5°C for 10±1 sec. Let sit at room condition* for 24±2 hrs., then measure. •Immersing speed: 25±2.5mm/s •Pretreatment Perform a heat treatment at 150 [±] ₁ 0°C for 60±5 min. and then			
	Resistance	D.F.	0.025 max.								
14	to Soldering	I.R.	More than 1,00	ΩΜΩ					let sit for 24±2 hrs. at room condition.*		
	Heat	Dielectric Strength	In accordance with item No.4					*Preheating Step 1 2	Temperature 100 to 120°C 170 to 200°C	Time 1 min. 1 min.	
		Appearance	No marking def	ects				Fix the capaci in Fig. 4.	tor to the supporting jig (glass	epoxy board) shown	
		Capacitance Change	Within ±15%					Perform the 5 cycles according to the 4 heat treatments listed in the following table.			
		D.F.	0.05 max.					Let sit for 24±	2 hrs. at room condition,* the		
		I.R.	More than 3,00	ΩΜΩ				Step	Temperature (°C) Min. Operating Temp +3	Time (min.)	
15	Temperature							1 2 3 4	Min. Operating Temp.±3 Room Temp. Max. Operating Temp.±2 Room Temp.	30±3 2 to 3 30±3 2 to 3	
	Cycle	Dielectric Strength	In accordance with item No.4					•Pretreatment Perform a heat treatment at 150 [±] 1°°C for 60±5 min. and then let sit for 24±2 hrs. at room condition.* Solder resist Cu Glass Epoxy Board Fig. 4			
		Appearance	No marking def	ects							
	Humidity	Capacitance Change	Within ±15%					Let the capacitor sit at 40±2°C and relative humidity of 90 to 95% for 500±26 hrs. Remove and let sit for 24±2 hrs. at room condition,* then			
16	(Steady	D.F.	0.05 max.					measure.	iet sit iui 2412 IIIS. dt IuuIII Ct	maillon, inen	
	State)	I.R.	More than 1,00	ΩΜΩ				Pretreatment Perform a he		r 60+5 min, and than	
		Dielectric Strength	In accordance v	vith item No	0.4			Perform a heat treatment at 150 ⁺ -18°C for 60±5 min. and then let sit for 24±2 hrs. at room condition.*			

^{* &}quot;Room condition" Temperature: 15 to 35°C, Relative humidity: 45 to 75%, Atmospheric pressure: 86 to 106kPa

Continued on the following page. $\begin{tabular}{|c|c|c|c|c|c|} \hline \end{tabular}$





Continued from the preceding page.

No.	Ite	em	Specifications	Test Method				
		Appearance	No marking defects					
		Capacitance Change Within ±20%		Apply 110% of the rated voltage for 1,000 ^{±48} hrs. at maximur operating temperature ±3°C. Remove and let sit for 24±2 hrs. a room condition,* then measure.				
17	Life	D.F.	0.05 max.	The charge/discharge current is less than 50mA.				
		I.R.	More than 2,000MΩ	Pretreatment Apply test voltage for 60±5 min. at test temperature.				
		Dielectric Strength	In accordance with item No.4	Remove and let sit for 24±2 hrs. at room condition.*				

^{* &}quot;Room condition" Temperature: 15 to 35°C, Relative humidity: 45 to 75%, Atmospheric pressure: 86 to 106kPa



Chip Monolithic Ceramic Capacitors (Medium Voltage)

For Camera Flash Circuit GR7 Series

■ Features

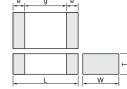
- Suitable for the trigger of the flash circuit, because real capacitance is stable during operating voltage.
- 2. The thin type fits thinner cameras.
- 3. Sn-plated external electrodes realize good solderability.
- 4. For flow and reflow soldering

Applications

For strobe circuit

Do not use these products in any Automotive Power train or Safety equipment including Battery chargers for Electric Vehicles and Plug-in Hybrids. Only Murata products clearly stipulated as "for Automotive use" can be used for automobile applications such as Power train and Safety equipment.





Part Number	Dimensions (mm)									
Fait Number	L	W	Т	e min.	g min.					
GR721A	2.0 ±0.2	1.25 ±0.2	1.0 +0, -0.3		0.7					
GR721B	2.0 ±0.2	1.25 ±0.2	1.25 ±0.2		0.7					
GR731A			1.0 +0, -0.3	0.3						
GR731B	3.2 ±0.2	1.6 ±0.2	1.25 +0, -0.3		1.2					
GR731C			1.6 ±0.2							

Part Number	Rated Voltage	TC Code (Standard)	Capacitance	Length L (mm)	Width W (mm)	Thickness T max. (mm)	Electrode g min.	Electrode e
GR721AW0BB103KW01D	350Vdc	-	10000pF±10%	2	1.25	1	0.7mm	0.3mm min.
GR731AW0BB103KW01D	350Vdc	-	10000pF±10%	3.2	1.6	1	1.2mm	0.3mm min.
GR721AW0BB153KW01D	350Vdc	-	15000pF±10%	2	1.25	1	0.7mm	0.3mm min.
GR731AW0BB153KW01D	350Vdc	-	15000pF±10%	3.2	1.6	1	1.2mm	0.3mm min.
GR721BW0BB223KW03L	350Vdc	-	22000pF±10%	2	1.25	1.45	0.7mm	0.3mm min.
GR731AW0BB223KW01D	350Vdc	-	22000pF±10%	3.2	1.6	1	1.2mm	0.3mm min.
GR731BW0BB223KW01L	350Vdc	-	22000pF±10%	3.2	1.6	1.25	1.2mm	0.3mm min.
GR721BW0BB273KW03L	350Vdc	-	27000pF±10%	2	1.25	1.45	0.7mm	0.3mm min.
GR731AW0BB273KW01D	350Vdc	-	27000pF±10%	3.2	1.6	1	1.2mm	0.3mm min.
GR731AW0BB333KW01D	350Vdc	-	33000pF±10%	3.2	1.6	1	1.2mm	0.3mm min.
GR731BW0BB333KW01L	350Vdc	-	33000pF±10%	3.2	1.6	1.25	1.2mm	0.3mm min.
GR731CW0BB473KW03L	350Vdc	-	47000pF±10%	3.2	1.6	1.8	1.2mm	0.3mm min.

No.	Ite	m	Specifications	Test Method		
1	Operating Temperatu	re Range	-55 to +125°C	-		
2	Appearan	се	No defects or abnormalities	Visual inspection		
3	Dimension	าร	Within the specified dimensions	Using calipers and micrometers		
4	Dielectric	Strength	No defects or abnormalities	No failure should be observed when DC500V is applied between the terminations for 1 to 5 sec., provided the charge/discharge current is less than 50mA.		
5	Insulation Resistance (I.R.)		C≥0.01μF: More than 100MΩ • μF C<0.01μF: More than 10,000MΩ	The insulation resistance should be measured with DC250±50V and within 60±5 sec. of charging.		
6	Capacitar	ice	Within the specified tolerance	The constitution (D. F. ale add by constitution)		
7	Dissipation Factor (D.		0.025 max.	The capacitance/D.F. should be measured at a frequency of 1±0.2kHz and a voltage of AC1±0.2V(r.m.s.).		
9	Capacitance Temperature Characteristics Adhesive Strength of Termination		Cap. Change Within ±10% (Apply DC350V bias) Within ±33% (No DC bias) (Temp. Range : -55 to +125°C) No removal of the terminations or other defect should occur.	The capacitance measurement should be made at each step specified in the Table. Step Temperature (°C) 1 25±2 2 Min. Operating Temp.±3 3 25±2 4 Max. Operating Temp.±2 5 25±2 •Pretreatment Perform a heat treatment at 150 ⁺ / ₋ °C for 60±5 min. and then let sit for 24±2 hrs. at room condition.* Solder the capacitor to the testing jig (glass epoxy board) shown in Fig. 1. Then apply 10N force in the direction of the arrow. The soldering should be done using the reflow method and should be conducted with care so that the soldering is uniform and free of defects such as heat shock.		
		Appearance	No defects or abnormalities	Fig. 1 Solder the capacitor to the test jig (glass epoxy board).		
		Capacitance	Within the specified tolerance	The capacitor should be subjected to a simple harmonic motion		
10	Vibration Resistance	•		having a total amplitude of 1.5mm, the frequency being varied uniformly between the approximate limits of 10 and 55Hz. The frequency range, from 10 to 55Hz and return to 10Hz, should be traversed in approximately 1 min. This motion should be applied for a period of 2 hrs. in each of 3 mutually perpendicular directions (total of 6 hrs.). Solder resist Glass Epoxy Board		
		D.F.	0.025 max.			

^{* &}quot;Room condition" Temperature: 15 to 35°C, Relative humidity: 45 to 75%, Atmospheric pressure: 86 to 106kPa





 $\begin{tabular}{|c|c|c|c|}\hline \searrow \\\hline \end{tabular}$ Continued from the preceding page.

	Continued in	om the prec	eaing page.								
No.	Ite	em		Sp	ecification	s			Test Method		
11	Deflection		L×W (mm) 2.0×1.25	a 1.2	100 Fig. 2 Dimensi	e4.5 + t:1.6 ion (mm) c 1.65	d 1.0	in Fig. 2. Then apply a The soldering should be cor	force in the direction shown is should be done using the reducted with care so that the effects such as heat shock. 20 50 Pressurizing speed: 1.0m Pressurize Pressurize Pressurize Flexure	in Fig. 3. Iflow method and soldering is uniform	
			3.2×1.6	2.2	5.0	2.0	1.0		Fig. 3		
12	2 Solderability of Termination 75% of the terminations are to be soldered evenly and continuously. Appearance No marking defects				d continuously.	rosin (JIS-K-5 Immerse in so Immersing sp	capacitor in a solution of etha 5902) (25% rosin in weight probler solution for 2±0.5 sec. eed: 25±2.5mm/s ler: 245±5°C Lead Free Sold 235±5°C H60A or H63A I	oportion). er (Sn-3.0Ag-0.5Cu)			
		Appearance	No marking def	ects							
	Resistance to Soldering	Capacitance Change	Within ±10%					Preheat the capacitor at 120 to 150°C for 1 min. Immerse the capacitor in solder solution at 260±5°C for 10±1 sec. Let sit at room condition* for 24±2 hrs., then measure.			
13		D.F.	0.025 max.						•Immersing speed: 25±2.5mm/s		
	Heat	I.R.	C≧0.01µF: Mor C<0.01µF: Mor						eat treatment at 150 [±] 18°C fo	r 60±5 min. and then	
		Dielectric Strength	In accordance v	vith item No	0.4			let Sit for 241	-2 hrs. at room condition.*		
		Appearance	No marking def	ects					itor to the supporting jig (glass	s epoxy board) shown	
		Capacitance Change	Within ±7.5%					the following	Perform the 5 cycles according to the 4 heat treatments listed in the following table.		
		D.F.	0.025 max.					Let sit for 24±2 hrs. at room condition,* then measure.			
		I.R.	C≥0.01µF: Mor C<0.01µF: Mor					Step 1	Temperature (°C) Min. Operating Temp.±3	Time (min.) 30±3	
			0 (0.01pi : Moi	0 111411 10,0	0011122			2	Room Temp.	2 to 3	
								3 4	Max. Operating Temp.±2 Room Temp.	30±3 2 to 3	
14	Temperature Cycle	Dielectric Strength	In accordance with item No 4			•Pretreatment Perform a heat treatment at 150 [±] ₁ 8°C for 60±5 min. and then let sit for 24±2 hrs. at room condition.* Solder resist Cu Glass Epoxy Board Fig. 4					
		Appearance	No marking def	ects							
		Capacitance Change	Within ±15%					for 500 ^{±2} 6 hr			
15	Humidity (Steady	D.F.	0.05 max.					Remove and measure.	let sit for 24±2 hrs. at room c	ondition,* then	
.5	State)	I.R.	C≥0.01µF: Mor C<0.01µF: Mor					•Pretreatment	eat treatment at 150±18°C fo	r 60±5 min. and then	
		Dielectric Strength	In accordance v	vith item No	D.4			let sit for 24±	2 hrs. at room condition.*		

^{* &}quot;Room condition" Temperature: 15 to 35°C, Relative humidity: 45 to 75%, Atmospheric pressure: 86 to 106kPa





AC250V Type GA2 Series

GR7 Series Specifications and Test Methods

Continued from the preceding page.

No.	Ite	em	Specifications	Test Method			
		Appearance	No marking defects				
		Capacitance Change	Within ±15%	Apply DC350V for 1,000 ⁺⁴⁸ / _o hrs. at maximum operating temperature ±3°C. Remove and let sit for 24±2 hrs. at room			
16	Life	D.F.	0.05 max.	condition,* then measure. The charge/discharge current is less than 50mA.			
		I.R.	C≥0.01μF: More than 10M Ω • μF C<0.01μF: More than 1,000M Ω	 Pretreatment Apply test voltage for 60±5 min. at test temperature. 			
		Dielectric Strength	In accordance with item No.4	Remove and let sit for 24±2 hrs. at room condition.*			
		Appearance	No marking defects				
		Capacitance Change	Within ±15%	Apply the rated voltage at 40±2°C and relative humidity of 90 to 95% for 500 ⁺²⁴ hrs.			
17	Humidity	D.F.	0.05 max.	Remove and let sit for 24±2 hrs. at room condition,* then measure.			
	Loading	I.R.	C≥0.01μF: More than 10M Ω • μF C<0.01μF: More than 1,000M Ω	Pretreatment Apply test voltage for 60±5 min. at test temperature.			
		Dielectric Strength	In accordance with item No.4	Remove and let sit for 24±2 hrs. at room condition.*			

^{* &}quot;Room condition" Temperature: 15 to 35°C, Relative humidity: 45 to 75%, Atmospheric pressure: 86 to 106kPa



AC250V Type (Which Meet Japanese Law) GA2 Series

■ Features

- 1. Chip monolithic ceramic capacitor for AC lines.
- A new monolithic structure for small, high capacitance capable of operating at high voltage levels
- 3. Sn-plated external electrodes realize good solderability.
- 4. Only for reflow soldering
- 5. Capacitance 0.01 to 0.1uF for connecting lines and 470 to 4700pF for connecting lines to earth.

■ Applications

Noise suppression filters for switching power supplies, telephones, facsimiles, modems.

Do not use these products in any Automotive Power train or Safety equipment including Battery chargers for Electric Vehicles and Plug-in Hybrids. Only Murata products clearly stipulated as "for Automotive use" can be used for automobile applications such as Power train and Safety equipment.

■ Reference Standard

GA243DR7E2473MW01L

GA255DR7E2104MW01L

GA2 series obtains no safety approval. This series is based on the standards of the electrical appliance and material safety law of Japan (separated table 4).

250Vac(r.m.s.)

250Vac(r.m.s.)

X7R (EIA)

X7R (EIA)

(separated table 4).		э. зарап						
Part Number	Rated Voltage	TC Code (Standard)	Capacitance	Length L (mm)	Width W (mm)	Thickness T max. (mm)	Electrode g min.	Electrode e
GA242QR7E2471MW01L	250Vac(r.m.s.)	X7R (EIA)	470pF±20%	4.5	2.0	1.5	2.5mm	0.3mm min.
GA242QR7E2102MW01L	250Vac(r.m.s.)	X7R (EIA)	1000pF±20%	4.5	2.0	1.5	2.5mm	0.3mm min.
GA243QR7E2222MW01L	250Vac(r.m.s.)	X7R (EIA)	2200pF±20%	4.5	3.2	1.5	2.5mm	0.3mm min.
GA243QR7E2332MW01L	250Vac(r.m.s.)	X7R (EIA)	3300pF±20%	4.5	3.2	1.5	2.5mm	0.3mm min.
GA243DR7E2472MW01L	250Vac(r.m.s.)	X7R (EIA)	4700pF±20%	4.5	3.2	2	2.5mm	0.3mm min.
GA243QR7E2103MW01L	250Vac(r.m.s.)	X7R (EIA)	10000pF±20%	4.5	3.2	1.5	2.5mm	0.3mm min.
GA243QR7E2223MW01L	250Vac(r.m.s.)	X7R (EIA)	22000pF±20%	4.5	3.2	1.5	2.5mm	0.3mm min.

47000pF±20%

0.10µF±20%

4.5

5.7

3.2

5.0

2

2

2.5mm

3.2mm

0.3mm min.

0.3mm min.



Part Number	Dimensions (mm)								
Fait Number	L	W	Т	e min.	g min.				
GA242Q	4.5 ±0.3	2.0 ±0.2	1.5 +0, -0.3						
GA243D	4.5 ±0.4	3.2 ±0.3	2.0 +0, -0.3	0.3	2.5				
GA243Q	4.5 ±0.4	3.2 ±0.3	1.5 +0, -0.3	0.3					
GA255D	5.7 ±0.4	5.0 ±0.4	2.0 +0, -0.3		3.2				

No.	Ite	em	Specifications	Test Method			
1	Operating Temperatu	ıre Range	−55 to +125°C	-			
2	Appearar	ice	No defects or abnormalities	Visual inspection			
3	Dimensio	ns	Within the specified dimensions	Using calipers and micrometers			
4	Dielectric Strength		No defects or abnormalities	No failure should be observed when voltage in the table is applied between the terminations for 60±1 sec., provided the charge/discharge current is less than 50mA. Nominal Capacitance Test Voltage			
5	Insulation F	Resistance	More than $2,000M\Omega$	The insulation resistance should be measured with DC500±50V and within 60±5 sec. of charging.			
6	Capacita	nce	Within the specified tolerance				
7	Dissipation Factor (D.F.)		0.025 max.	The capacitance/D.F. should be measured at a frequency of 1±0.2kHz and a voltage of AC1±0.2V (r.m.s.).			
8	Capacital Temperat Characte	ure	Cap. Change Within ±15% (Temp. Range: –55 to +125°C)	The capacitance measurement should be made at each step specified in the Table. Step			
9	Discharge Test (Application: Nominal Capacitance C<10,000pF)	Appearance	No defects or abnormalities	As in Fig., discharge is made 50 times at 5 sec. intervals from the capacitor (Cd) charged at DC voltage of specified. R3 R1 Ct: Capacitor under test Cd: 0.001μF R1: 1,000Ω R2: 100MΩ R3: Surge resistance			
10	Adhesive of Termin	•	No removal of the terminations or other defects should occur.	Solder the capacitor to the testing jig (glass epoxy board) shown in Fig. 1. Then apply 10N force in the direction of the arrow. The soldering should be done using the reflow method and should be conducted with care so that the soldering is uniform and free of defects such as heat shock.			
		Appearance	No defects or abnormalities	Solder the capacitor to the test jig (glass epoxy board).			
11	Vibration Resistance	Capacitance D.F.	Within the specified tolerance 0.025 max.	The capacitor should be subjected to a simple harmonic motion having a total amplitude of 1.5mm, the frequency being varied uniformly between the approximate limits of 10 and 55Hz. The frequency range, from 10 to 55Hz and return to 10Hz, should be traversed in approximately 1 min. This motion should be applied for a period of 2 hrs. in each of 3 mutually perpendicular directions (total of 6 hrs.).			
				Solder resist Glass Epoxy Board COOCUUTO: 96 to 106kPo			

 $^{^{\}star}$ "Room condition" Temperature: 15 to 35°C, Relative humidity: 45 to 75%, Atmospheric pressure: 86 to 106kPa







Continued from the preceding page

<u> </u>	Continued fro	om the prece	eding page.									
No.	Ite	em		Sį	pecifications	3			Test Method			
12	2 Deflection		L×W (mm) 4.5×2.0 4.5×3.2 5.7×5.0	a 3.5 3.5 4.5		04.5 t:1.6 on (mm) c 2.4 3.7 5.6	d 1.0	Solder the capacitor to the testing jig (glass epoxy board) shown in Fig. 2. Then apply a force in the direction shown in Fig. 3. The soldering should be done using the reflow method and should be conducted with care so that the soldering is uniform and free of defects such as heat shock. 20 50 Pressurizing speed: 1.0mm/s Pressurize Pressurize R230 Flexure=1 Capacitance meter 45 (in mm) Fig. 3				
13	Solderability of Termination 75% of the terminations are to be soldered evenly and continuously.						Immerse the capacitor in a solution of ethanol (JIS-K-8101) and rosin (JIS-K-5902) (25% rosin in weight proportion). Immerse in solder solution for 2±0.5 sec. Immersing speed: 25±2.5mm/s Temp. of solder: 245±5°C Lead Free Solder (Sn-3.0Ag-0.5Cu) 235±5°C H60A or H63A Eutectic Solder					
14	Humidity Insulation	Appearance Capacitance Change D.F. I.R. Dielectric Strength	No marking defects Within $\pm 15\%$ 0.05 max. More than $1,000M\Omega$ In accordance with item No.4					The capacitor should be subjected to 40±2°C, relative humidity of 90 to 98% for 8 hrs., and then removed in room condition* for 16 hrs. until 5 cycles.				
15	Resistance to Soldering Heat	Appearance Capacitance Change D.F. I.R.	pearance No marking defects						Preheat the capacitor as in table. Immerse the capacitor in solder solution at 260±5°C for 10±1 sec. Let sit at room condition* for 24±2 hrs., then measure. •Immersing speed: 25±2.5mm/s •Pretreatment Perform a heat treatment at 150 [±] 10°C for 60±5 min. and then let sit for 24±2 hrs. at room condition.* *Preheating Step Temperature Time			
		Strength	In accordance v	with item in).4 			1 2	100 to 120°C 170 to 200°C	1 min. 1 min.		
		Appearance	No marking def	ects					tor to the supporting jig (glass	epoxy board) shown		
		Capacitance Change	Within ±15%					in Fig. 4. Perform the 5 cycles according to the 4 heat treatments listed in the following table.				
		D.F.	0.05 max.					Let sit for 24±	2 hrs. at room condition,* then	measure.		
		I.R.	More than 2,00	ΩΜ0				Step	Temperature (°C)	Time (min.)		
16	Temperature Cycle					1 Min. Operating Temp.±3 30±3 2 Room Temp. 2 to 3 3 Max. Operating Temp.±2 30±3 4 Room Temp. 2 to 3 •Pretreatment Perform a heat treatment at 150 [±] 18°C for 60±5 min. and then let sit for 24±2 hrs. at room condition.* Glass Epoxy Board Glass Epoxy Board						

 $^{^{\}star}$ "Room condition" Temperature: 15 to 35°C, Relative humidity: 45 to 75%, Atmospheric pressure: 86 to 106kPa

Continued on the following page.

Fig. 4





Continued from the preceding page.

No.	Ite	em	Specifications	Test Method			
		Appearance	No marking defects				
	Humidity	Capacitance Change	Within ±15%	Let the capacitor sit at 40±2°C and relative humidity of 90 to 95% for 500±2dhrs. Remove and let sit for 24±2 hrs. at room condition,* then			
17	(Steady	D.F.	0.05 max.	measure.			
	State)	I.R.	More than 1,000M Ω	Pretreatment Perform a heat treatment at 150 [±] ₁ °C for 60±5 min, and then			
		Dielectric Strength	In accordance with item No.4	let sit for 24±2 hrs. at room condition.*			
		Appearance	No marking defects	Apply voltage and time as in Table at maximum operating			
		Capacitance Change	Within ±20%	temperature ±3°C. Remove and let sit for 24±2 hrs. at room condition,* then measure. The charge / discharge current is less than 50mA.			
	Life	D.F.	0.05 max.	Nominal Capacitance			
		I.R.	More than 1,000M Ω	C≥10,000pF 1,000 ⁺⁴⁸ / _o hrs. AC300V (r.m.s.)			
18		Dielectric Strength	In accordance with item No.4	* Except that once each hour the voltage is increased to AC1,000V (r.m.s.) for 0.1 sec. Pretreatment Apply test voltage for 60±5 min. at test temperature. Remove and let sit for 24±2 hrs. at room condition.*			
		Appearance	No marking defects				
		Capacitance Change	Within ±15%	Apply the rated voltage at 40±2°C and relative humidity of 90 to 95% for 500±24hrs. Remove and let sit for 24±2 hrs. at room condition,* then			
19	Humidity Loading	D.F.	0.05 max.	measure.			
	Loading	I.R.	More than 1,000M Ω	Pretreatment Apply test voltage for 60±5 min. at test temperature.			
		Dielectric Strength	In accordance with item No.4	Remove and let sit for 24±2 hrs. at room condition.*			

^{* &}quot;Room condition" Temperature: 15 to 35°C, Relative humidity: 45 to 75%, Atmospheric pressure: 86 to 106kPa



Safety Standard Certified GA3 Series UL, IEC60384-14 Class X1/Y2 Type GC

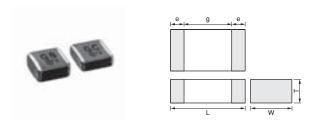
■ Features

- 1. Chip monolithic ceramic capacitor (certified as conforming to safety standards) for AC lines.
- A new monolithic structure for small, high capacitance capable of operating at high voltage levels.
- 3. Compared to lead type capacitors, this new capacitor is greatly downsized and low-profiled to 1/10 or less in volume, and 1/4 or less in height.
- 4. Type GC can be used as an X1-class and Y2-class capacitor, line-by-pass capacitor of UL1414.
- 5. +125 degree C guaranteed
- 6. Only for reflow soldering

Applications

- Ideal for use as Y capacitor or X capacitor for various switching power supplies
- 2. Ideal for modem applications

Do not use these products in any Automotive
Power train or Safety equipment including Battery
chargers for Electric Vehicles and Plug-in Hybrids.
Only Murata products clearly stipulated as
"for Automotive use" can be used for automobile
applications such as Power train and Safety equipment.



F	Part Number		Din	nensions (m	nm)	
	Part Number	L	W	Т	e min.	g min.
	GA355D	5.7 ±0.4	5.0 ±0.4	2.0 ±0.3	0.3	4.0

■ Standard Certification

	Standard No.	Class	Rated Voltage
UL	UL1414	Line By-pass	
VDE	IEC 60384-14 EN 60384-14		
BSI	EN 60065 (14.2) IEC 60384-14 EN 60384-14	X1, Y2	AC250V (r.m.s.)
SEMKO	IEC 60384-14 EN 60384-14		
ESTI	IEC 60384-14		

Part Number	Rated Voltage	TC Code (Standard)	Capacitance	Length L (mm)	Width W (mm)	Thickness T max. (mm)	Electrode g min.	Electrode e
GA355DR7GC101KY02L	250Vac(r.m.s.)	X7R (EIA)	100pF±10%	5.7	5.0	2.3	4.0mm	0.3mm min.
GA355DR7GC151KY02L	250Vac(r.m.s.)	X7R (EIA)	150pF±10%	5.7	5.0	2.3	4.0mm	0.3mm min.
GA355DR7GC221KY02L	250Vac(r.m.s.)	X7R (EIA)	220pF±10%	5.7	5.0	2.3	4.0mm	0.3mm min.
GA355DR7GC331KY02L	250Vac(r.m.s.)	X7R (EIA)	330pF±10%	5.7	5.0	2.3	4.0mm	0.3mm min.



Safety Standard Certified GA3 Series IEC60384-14 Class Y2, X1/Y2 Type GF

Features

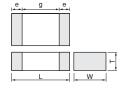
- 1. Available for equipment based on IEC/EN60950 and UL1950. Besides, the GA352/355 types are available for equipment based on IEC/EN60065, UL1492, and UL6500.
- 2. Type GF can be used as a Y2-class capacitor.
- 3. A new monolithic structure for small, high capacitance capable of operating at high voltage
- 4. +125 degree C guaranteed
- 5. Only for reflow soldering

Applications

- 1. Ideal for use on line filters and couplings for DAA modems without transformers
- 2. Ideal for use on line filters for information equipment
- 3. Ideal for use as Y capacitor or X capacitor for various switching power supplies (GA352/355 types only)

Do not use these products in any Automotive Power train or Safety equipment including Battery chargers for Electric Vehicles and Plug-in Hybrids. Only Murata products clearly stipulated as "for Automotive use" can be used for automobile applications such as Power train and Safety equipment.





Dort Number		Dir	mensions (mm)		
Part Number	L	W T		e min.	g min.
GA342A			1.0 +0, -0.3		
GA342D	4.5 ±0.3	2.0 ±0.2	2.0 ±0.2		2.5
GA342Q			1.5 +0, -0.3	0.3	
GA352Q		2.8 ±0.3	1.5 +0, -0.3	0.3	
GA355D	5.7 ±0.4	5.0 ±0.4	2.0 +0, -0.3		4.0
GA355Q		5.0 ±0.4	1.5 +0, -0.3		

■ Standard Certification

	Standard		Status of C	Rated		
	No.	Class	Size : 4.5x2.0mm	Size: 5.7x2.8mm and over	Voltage	
UL	UL1414	X1, Y2	_	0		
UL	UL 60950-1	_	0	_	AC250V	
VDE	IEC 60384-14	X1, Y2	_	0	(r.m.s.)	
SEMKO	EN 60384-14	Y2	0	0		

Applications

Size	Switching power supplies	Communication network devices such as a modem
4.5x2.0mm	_	0
5.7x2.8mm and over	0	0

Part Number	Rated Voltage	TC Code (Standard)	Capacitance	Length L (mm)	Width W (mm)	Thickness T max. (mm)	Electrode g min.	Electrode e
GA342D1XGF100JY02L	250Vac(r.m.s.)	SL (JIS)	10pF±5%	4.5	2.0	2.2	2.5mm	0.3mm min.
GA342D1XGF120JY02L	250Vac(r.m.s.)	SL (JIS)	12pF±5%	4.5	2.0	2.2	2.5mm	0.3mm min.
GA342D1XGF150JY02L	250Vac(r.m.s.)	SL (JIS)	15pF±5%	4.5	2.0	2.2	2.5mm	0.3mm min.
GA342D1XGF180JY02L	250Vac(r.m.s.)	SL (JIS)	18pF±5%	4.5	2.0	2.2	2.5mm	0.3mm min.
GA342D1XGF220JY02L	250Vac(r.m.s.)	SL (JIS)	22pF±5%	4.5	2.0	2.2	2.5mm	0.3mm min.
GA342A1XGF270JW31L	250Vac(r.m.s.)	SL (JIS)	27pF±5%	4.5	2.0	1	2.5mm	0.3mm min.
GA342A1XGF330JW31L	250Vac(r.m.s.)	SL (JIS)	33pF±5%	4.5	2.0	1	2.5mm	0.3mm min.
GA342A1XGF390JW31L	250Vac(r.m.s.)	SL (JIS)	39pF±5%	4.5	2.0	1	2.5mm	0.3mm min.
GA342A1XGF470JW31L	250Vac(r.m.s.)	SL (JIS)	47pF±5%	4.5	2.0	1	2.5mm	0.3mm min.
GA342A1XGF560JW31L	250Vac(r.m.s.)	SL (JIS)	56pF±5%	4.5	2.0	1	2.5mm	0.3mm min.
GA342A1XGF680JW31L	250Vac(r.m.s.)	SL (JIS)	68pF±5%	4.5	2.0	1	2.5mm	0.3mm min.
GA342A1XGF820JW31L	250Vac(r.m.s.)	SL (JIS)	82pF±5%	4.5	2.0	1	2.5mm	0.3mm min.
GA342QR7GF101KW01L	250Vac(r.m.s.)	X7R (EIA)	100pF±10%	4.5	2.0	1.5	2.5mm	0.3mm min.
GA342QR7GF151KW01L	250Vac(r.m.s.)	X7R (EIA)	150pF±10%	4.5	2.0	1.5	2.5mm	0.3mm min.
GA342DR7GF221KW02L	250Vac(r.m.s.)	X7R (EIA)	220pF±10%	4.5	2.0	2.2	2.5mm	0.3mm min.
GA342DR7GF331KW02L	250Vac(r.m.s.)	X7R (EIA)	330pF±10%	4.5	2.0	2.2	2.5mm	0.3mm min.
GA342QR7GF471KW01L	250Vac(r.m.s.)	X7R (EIA)	470pF±10%	4.5	2.0	1.5	2.5mm	0.3mm min.
GA352QR7GF471KW01L	250Vac(r.m.s.)	X7R (EIA)	470pF±10%	5.7	2.8	1.5	4.0mm	0.3mm min.
GA342QR7GF681KW01L	250Vac(r.m.s.)	X7R (EIA)	680pF±10%	4.5	2.0	1.5	2.5mm	0.3mm min.
GA352QR7GF681KW01L	250Vac(r.m.s.)	X7R (EIA)	680pF±10%	5.7	2.8	1.5	4.0mm	0.3mm min.
GA342DR7GF102KW02L	250Vac(r.m.s.)	X7R (EIA)	1000pF±10%	4.5	2.0	2.2	2.5mm	0.3mm min.
GA352QR7GF102KW01L	250Vac(r.m.s.)	X7R (EIA)	1000pF±10%	5.7	2.8	1.5	4.0mm	0.3mm min.





Continued from the preceding p	Continued from the preceding page.											
Part Number	Rated Voltage	TC Code (Standard)	Capacitance	Length L (mm)	Width W (mm)	Thickness T max. (mm)	Electrode g min.	Electrode e				
GA352QR7GF152KW01L	250Vac(r.m.s.)	X7R (EIA)	1500pF±10%	5.7	2.8	1.5	4.0mm	0.3mm min.				
GA355QR7GF182KW01L	250Vac(r.m.s.)	X7R (EIA)	1800pF±10%	5.7	5.0	1.5	4.0mm	0.3mm min.				
GA355QR7GF222KW01L	250Vac(r.m.s.)	X7R (EIA)	2200pF±10%	5.7	5.0	1.5	4.0mm	0.3mm min.				
GA355QR7GF332KW01L	250Vac(r.m.s.)	X7R (EIA)	3300pF±10%	5.7	5.0	1.5	4.0mm	0.3mm min.				
GA355DR7GF472KW01L	250Vac(r.m.s.)	X7R (EIA)	4700pF±10%	5.7	5.0	2	4.0mm	0.3mm min.				



Safety Standard Certified GA3 Series IEC60384-14 Class Y3 Type GD

■ Features

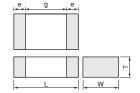
- Available for equipment based on IEC/EN60950 and UL1950.
- 2. Type GD can be used as a Y3-class capacitor.
- A new monolithic structure for small, high capacitance capable of operating at high voltage levels
- 4. +125 degree C guaranteed
- 5. Only for reflow soldering

Applications

- Ideal for use on line filters and couplings for DAA modems without transformers
- 2. Ideal for use on line filters for information equipment

Do not use these products in any Automotive Power train or Safety equipment including Battery chargers for Electric Vehicles and Plug-in Hybrids. Only Murata products clearly stipulated as "for Automotive use" can be used for automobile applications such as Power train and Safety equipment.





Part Number	Dimensions (mm)						
Fart Number	L	W	Т	e min.	g min.		
GA342A			1.0 +0, -0.3				
GA342D	4.5 ±0.3	2.0 ±0.2	2.0 ±0.2		2.5		
GA342Q			1.5 +0, -0.3	0.3			
GA343D	4.5 ±0.4	3.2 ±0.3	2.0 +0, -0.3				
GA343Q	4.5 ±0.4	3.2 ±0.5	1.5 +0, -0.3				

■ Standard Certification

	Standard No.	Class	Rated Voltage
UL	UL 60950-1	_	
SEMKO	IEC 60384-14 EN 60384-14	Y3	AC250V(r.m.s.)

Applications

Size	Switching power supplies	Communication network devices such as a modem
4.5x3.2mm and under	_	0

Part Number	Rated Voltage	TC Code (Standard)	Capacitance	Length L (mm)	Width W (mm)	Thickness T max. (mm)	Electrode g min.	Electrode e
GA342D1XGD100JY02L	250Vac(r.m.s.)	SL (JIS)	10pF±5%	4.5	2.0	2.2	2.5mm	0.3mm min.
GA342D1XGD120JY02L	250Vac(r.m.s.)	SL (JIS)	12pF±5%	4.5	2.0	2.2	2.5mm	0.3mm min.
GA342D1XGD150JY02L	250Vac(r.m.s.)	SL (JIS)	15pF±5%	4.5	2.0	2.2	2.5mm	0.3mm min.
GA342D1XGD180JY02L	250Vac(r.m.s.)	SL (JIS)	18pF±5%	4.5	2.0	2.2	2.5mm	0.3mm min.
GA342D1XGD220JY02L	250Vac(r.m.s.)	SL (JIS)	22pF±5%	4.5	2.0	2.2	2.5mm	0.3mm min.
GA342A1XGD270JW31L	250Vac(r.m.s.)	SL (JIS)	27pF±5%	4.5	2.0	1	2.5mm	0.3mm min.
GA342A1XGD330JW31L	250Vac(r.m.s.)	SL (JIS)	33pF±5%	4.5	2.0	1	2.5mm	0.3mm min.
GA342A1XGD390JW31L	250Vac(r.m.s.)	SL (JIS)	39pF±5%	4.5	2.0	1	2.5mm	0.3mm min.
GA342A1XGD470JW31L	250Vac(r.m.s.)	SL (JIS)	47pF±5%	4.5	2.0	1	2.5mm	0.3mm min.
GA342A1XGD560JW31L	250Vac(r.m.s.)	SL (JIS)	56pF±5%	4.5	2.0	1	2.5mm	0.3mm min.
GA342A1XGD680JW31L	250Vac(r.m.s.)	SL (JIS)	68pF±5%	4.5	2.0	1	2.5mm	0.3mm min.
GA342A1XGD820JW31L	250Vac(r.m.s.)	SL (JIS)	82pF±5%	4.5	2.0	1	2.5mm	0.3mm min.
GA342QR7GD101KW01L	250Vac(r.m.s.)	X7R (EIA)	100pF±10%	4.5	2.0	1.5	2.5mm	0.3mm min.
GA342QR7GD151KW01L	250Vac(r.m.s.)	X7R (EIA)	150pF±10%	4.5	2.0	1.5	2.5mm	0.3mm min.
GA342QR7GD221KW01L	250Vac(r.m.s.)	X7R (EIA)	220pF±10%	4.5	2.0	1.5	2.5mm	0.3mm min.
GA342QR7GD331KW01L	250Vac(r.m.s.)	X7R (EIA)	330pF±10%	4.5	2.0	1.5	2.5mm	0.3mm min.
GA342QR7GD471KW01L	250Vac(r.m.s.)	X7R (EIA)	470pF±10%	4.5	2.0	1.5	2.5mm	0.3mm min.
GA342QR7GD681KW01L	250Vac(r.m.s.)	X7R (EIA)	680pF±10%	4.5	2.0	1.5	2.5mm	0.3mm min.
GA342QR7GD102KW01L	250Vac(r.m.s.)	X7R (EIA)	1000pF±10%	4.5	2.0	1.5	2.5mm	0.3mm min.
GA342QR7GD152KW01L	250Vac(r.m.s.)	X7R (EIA)	1500pF±10%	4.5	2.0	1.5	2.5mm	0.3mm min.
GA343QR7GD182KW01L	250Vac(r.m.s.)	X7R (EIA)	1800pF±10%	4.5	3.2	1.5	2.5mm	0.3mm min.
GA343QR7GD222KW01L	250Vac(r.m.s.)	X7R (EIA)	2200pF±10%	4.5	3.2	1.5	2.5mm	0.3mm min.
GA343DR7GD472KW01L	250Vac(r.m.s.)	X7R (EIA)	4700pF±10%	4.5	3.2	2	2.5mm	0.3mm min.

Safety Standard Certified GA3 Series IEC60384-14 Class X2 Type GB

■ Features

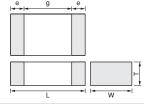
- 1. Type GB can be used as an X2-class capacitor.
- 2. Chip monolithic ceramic capacitor (certified as conforming to safety standards) for AC lines.
- A new monolithic structure for small, high capacitance capable of operating at high voltage levels.
- 4. Compared to lead type capacitors, this new capacitor is greatly downsized and low-profiled to 1/10 or less in volume, and 1/4 or less in height.
- 5. +125 degree C guaranteed
- 6. Only for reflow soldering

Applications

Ideal for use as X capacitor for various switching power supplies

Do not use these products in any Automotive Power train or Safety equipment including Battery chargers for Electric Vehicles and Plug-in Hybrids. Only Murata products clearly stipulated as "for Automotive use" can be used for automobile applications such as Power train and Safety equipment.





				•••	
Part Number		Dii	mensions (m	ım)	
rait Number	L	W	Т	e min.	g min.
GA355Q		5.0 ±0.4	1.5 +0,-0.3	0.3	3.0
GA355D	5.7 ±0.4		2.0 +0,-0.3		
GA355E	5.7 ±0.4		2.5 +0,-0.3	0.3	
GA355X			2.9 +0,-0.4		

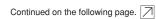
■ Standard Certification

	Standard No.	Class	Rated Voltage
VDE	IEC 60384-14		
SEMKO	EN 60384-14 IEC 60384-14	X2	AC250V (r.m.s.)
ESTI			

Part Number	Rated Voltage	TC Code (Standard)	Capacitance	Length L (mm)	Width W (mm)	Thickness T max. (mm)	Electrode g min.	Electrode e
GA355QR7GB103KW01L	250Vac(r.m.s.)	X7R (EIA)	10000pF±10%	5.7	5.0	1.5	3.0mm	0.3mm min.
GA355QR7GB153KW01L	250Vac(r.m.s.)	X7R (EIA)	15000pF±10%	5.7	5.0	1.5	3.0mm	0.3mm min.
GA355DR7GB223KW01L	250Vac(r.m.s.)	X7R (EIA)	22000pF±10%	5.7	5.0	2	3.0mm	0.3mm min.
GA355ER7GB333KW01L	250Vac(r.m.s.)	X7R (EIA)	33000pF±10%	5.7	5.0	2.5	3.0mm	0.3mm min.
GA355ER7GB473KW01L	250Vac(r.m.s.)	X7R (EIA)	47000pF±10%	5.7	5.0	2.5	3.0mm	0.3mm min.
GA355XR7GB563KW06L	250Vac(r.m.s.)	X7R (EIA)	56000pF±10%	5.7	5.0	2.9	3.0mm	0.3mm min.

No.	Ite	em	Specifications	Test Method		
1	Operating Temperatu	ıre Range	-55 to +125°C	-		
2	Appearan	nce	No defects or abnormalities	Visual inspection		
3	Dimensio	ns	Within the specified dimensions	Using calipers and micrometers		
4	Dielectric Strength		No defects or abnormalities	No failure should be observed when voltage in the table is applied between the terminations for 60±1 sec., provided the charge/discharge current is less than 50mA.		
				Test Voltage Type GB DC1075V Type GC/GD AC1500V (r.m.s.) Type GF AC2000V (r.m.s.)		
5	Pulse Vol (Applicati GD/GF)	-	No self healing breakdowns or flash-overs have taken place in the capacitor.	10 impulses of alternating polarity are subjected. (5 impulses for each polarity) The interval between impulses is 60 sec. Applied Pulse: 1.2/50µs Applied Voltage: 2.5kVo-p		
6	Insulation F (I.R.)	Resistance	More than $6{,}000M\Omega$	The insulation resistance should be measured with DC500±50V and within 60±5 sec. of charging.		
7	Capacita	nce	Within the specified tolerance			
8	Q		Char. Specification X7R D.F.≦0.025 SL Q≥400+20C*² (C<30pF)	The capacitance/Q/D.F. should be measured at a frequency of 1±0.2kHz (SL char.: 1±0.2MHz) and a voltage of AC1±0.2V (r.m.s.).		
9			Char. Capacitance Change X7R Within ±15% Temperature characteristic guarantee is −55 to +125°C Char. Temperature Coefficient SL +350 to −1000ppm/°C Temperature characteristic guarantee is +20 to +85°C	The capacitance measurement should be made at each step specified in the Table. Step		
		Appearance	No defects or abnormalities	As in Fig., discharge is made 50 times at 5 sec. intervals from		
10	Discharge Test (Application: Type GC)	I.R. Dielectric Strength	More than 1,000M Ω In accordance with item No.4	the capacitor (Cd) charged at DC voltage of specified. R1 T 10kV V Cd Ct: Capacitor under test Cd: 0.001μF R1: 1,000Ω R2: 100ΜΩ R3: Surge resistance		
11	Adhesive Strength of Termination		No removal of the terminations or other defect should occur.	Solder the capacitor to the testing jig (glass epoxy board) shown in Fig. 1. Then apply 10N force in the direction of the arrow. The soldering should be done using the reflow method and should be conducted with care so that the soldering is uniform and free of defects such as heat shock. 10N, 10±1s Glass Epoxy Board Glass Epoxy Board Glass Epoxy Board Fig. 1		

^{*1 &}quot;Room condition" Temperature: 15 to 35°C, Relative humidity: 45 to 75%, Atmospheric pressure: 86 to 106kPa





^{*2 &}quot;C" expresses nominal capacitance value (pF).

Continued from the preceding page.

lo.	Item	Specifications	Test Method	
2 Vibratio Resista		No defects or abnormalities Within the specified tolerance Char. Specification X7R D.F.≤0.025 SL Q≥400+20C*2 (C<30pF) Q≥1000 (C≥30pF)	Solder the capacitor to the test jig (glass epoxy board). The capacitor should be subjected to a simple harmonic motion having a total amplitude of 1.5mm, the frequency being varied uniformly between the approximate limits of 10 and 55Hz. The frequency range, from 10 to 55Hz and return to 10Hz, should be traversed in approximately 1 min. This motion should be applied for a period of 2 hrs. in each of 3 mutually perpendicular directions (total of 6 hrs.).	
13 Deflec	etion	No marking defects	Solder the capacitor to the testing jig (glass epoxy board) sho in Fig. 2. Then apply a force in the direction shown in Fig. 3. The solder should be done using the reflow method and should be conducted with care so that the soldering is uniform and free defects such as heat shock. 20 50 Pressurizing speed: 1.0mm/s Pressurize 10 Flexure=1 Capacitance meter 45 Flexure=1 Capacitance meter (in mm)	
Solde Termi	rability of nation	75% of the terminations are to be soldered evenly and continuously.	Immerse the capacitor in a solution of ethanol (JIS-K-8101) and rosin (JIS-K-5902) (25% rosin in weight proportion). Immerse in solder solution for 2±0.5 sec. Immersing speed: 25±2.5mm/s Temp. of solder: 245±5°C Lead Free Solder (Sn-3.0Ag-0.5Cu) 235±5°C H60A or H63A Eutectic Solder	
Resistan 5 to Solde Heat		No marking defects Char. Capacitance Change X7R Within ±10% SL Within ±2.5% or ±0.25pF (Whichever is larger) More than 1,000ΜΩ	Preheat the capacitor as in table. Immerse the capacitor in solder solution at 260±5°C for 10±1 sec. Let sit at room condition*1 for 24±2 hrs., then measure. •Immersing speed: 25±2.5mm/s •Pretreatment for X7R char. Perform a heat treatment at 150±18°C for 60±5 min. and then let sit for 24±2 hrs. at room condition.*1	
	Dielectric Strength In accordance with item No.4		*Preheating Step Temperature Time	

^{*1 &}quot;Room condition" Temperature: 15 to 35°C, Relative humidity: 45 to 75%, Atmospheric pressure: 86 to 106kPa *2 "C" expresses nominal capacitance value (pF).





Continued from the preceding page.

No.	Ite	em	Specifications	Test Method				
		Appearance Capacitance Change	No marking defects Char. Capacitance Change X7R Within ±15% SL Within ±2.5% or ±0.25pF (Whichever is larger)	Fix the capacitor to the supporting jig (glass epoxy board) shown in Fig. 4. Perform the 5 cycles according to the 4 heat treatments listed in the following table. Let sit for 24±2 hrs. at room condition,*1 then measure.				
16	Temperature	D.F. Q	Char. Specification X7R D.F.≤0.05 SL Q≥400+20C*² (C<30pF)	Step Temperature (°C) Time (min.) 1 Min. Operating Temp.±3 30±3 2 Room Temp. 2 to 3 3 Max. Operating Temp.±2 30±3 4 Room Temp. 2 to 3				
	Cycle	I.R.	More than $3,000M\Omega$	•Pretreatment for X7R char. Perform a heat treatment at 150 [±] ₁ %°C for 60±5 min. and then				
		Dielectric Strength	In accordance with item No.4	let sit for 24±2 hrs. at room condition.*1				
		Appearance	No marking defects					
		Capacitance Change	Char. Capacitance Change X7R Within ±15% SL Within ±5.0% or ±0.5pF (Whichever is larger)	Before this test, the test shown in the following is performedItem 11 Adhesive Strength of Termination (applied force is 5N) -Item 13 Deflection				
17	Humidity (Steady State)	D.F. Q	Char. Specification X7R D.F.≤0.05 SL Q≥275+5/2C*² (C<30pF)	Let the capacitor sit at 40±2°C and relative humidity of 90 to for 500±26 hrs. Remove and let sit for 24±2 hrs. at room condition,*1 then measure. •Pretreatment for X7R char.				
		I.R.	More than 3,000MΩ	Perform a heat treatment at 150 [±] ₁ %°C for 60±5 min. and then let sit for 24±2 hrs. at room condition.*1				
		Dielectric Strength	In accordance with item No.4	— ICE SICION 2412 IIIS. ACTOOM COMMISSION.				
		Appearance Capacitance Change	No marking defects Char. Capacitance Change X7R Within ±20% SL Within ±3.0% or ±0.3pF (Whichever is larger)	Before this test, the test shown in the following is performed. ·Item 11 Adhesive Strength of Termination (apply force is 5N) ·Item 13 Deflection Impulse Voltage Each individual capacitor should be subjected to a 2.5kV (Type				
		D.F. Q	Char. Specification X7R D.F.≤0.05 SL Q≥275+5/2C*² (C<30pF)	be subjected to a 2.5kV (Type GC/GF: 5kV) Impulse (the voltage value means zero to peak) for three times. Then the capacitors are applied to life test.				
18	Life	I.R.	More than 3,000MΩ	Apply voltage as in Table for 1,000 hrs. at 125 ⁺² °C, relative humidity 50% max.				
		Dielectric Strength	In accordance with item No.4	Type Applied Voltage GB AC312.5V (r.m.s.), except that once each hour the voltage is increased to AC1,000V (r.m.s.) for 0.1 sec. GC GF GD AC425V (r.m.s.), except that once each hour the voltage is increased to AC1,000V (r.m.s.) for 0.1 sec. Let sit for 24±2 hrs. at room condition,*¹ then measure. •Pretreatment for X7R char. Perform a heat treatment at 150±18°C for 60±5 min. and then let sit for 24±2 hrs. at room condition.*¹				

^{*1 &}quot;Room condition" Temperature: 15 to 35°C, Relative humidity: 45 to 75%, Atmospheric pressure: 86 to 106kPa





^{*2 &}quot;C" expresses nominal capacitance value (pF).

Ontinued from the preceding page.

No.	Item	Specifications	Test Method		
	Appearance	No marking defects			
	Capacitance Change	Char. Capacitance Change X7R Within ±15% SL Within ±5.0% or ±0.5pF (Whichever is larger)	Before this test, the test shown in the following is performedItem 11 Adhesive Strength of Termination (apply force is 5N) -Item 13 Deflection		
19 Humidi Loadin		Char. Specification X7R D.F.≤0.05 SL Q≥275+5/2C*² (C<30pF)	Apply the rated voltage at 40±2°C and relative humidity of 90 to 95% for 500±26 hrs. Remove and let sit for 24±2 hrs. at room condition,*1 then measure. •Pretreatment for X7R char. Perform a heat treatment at 150±18°C for 60±5 min. and then		
	I.R.	More than $3{,}000M\Omega$	let sit for 24±2 hrs. at room condition.*1		
	Dielectric Strength	In accordance with item No.4			
20 Active Flamm	ability	The cheesecloth should not be on fire.	The capacitor should be individually wrapped in at least one but not more than two complete layers of cheesecloth. The capacitor should be subjected to 20 discharges. The interval between successive discharges should be 5 sec. The UAc should be maintained for 2 min. after the last discharge. C1,2 : 1µF±10%		
Passive Flammability		The burning time should not exceed 30 sec. The tissue paper should not ignite.	The capacitor under test should be held in the flame in the position which best promotes burning. Each specimen should be exposed to the flame only once. Time of exposure to flame 30 sec. Length of flame: 12±1mm Gas burner: Length 35mm min. Inside Dia. 0.5±0.1mm Outside Dia. 0.9mm max. Gas: Butane gas Purity 95% min. Test Specimen Tissue About 10mm Thick Board		

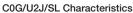
^{*1 &}quot;Room condition" Temperature: 15 to 35°C, Relative humidity: 45 to 75%, Atmospheric pressure: 86 to 106kPa

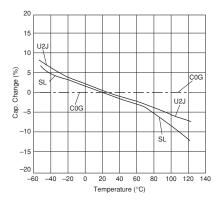


^{*2 &}quot;C" expresses nominal capacitance value (pF).

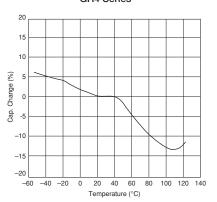
GRM/GRJ/GR3/GR4/GR7/GA2/GA3 Series Reference Data (Typical Example)

■ Capacitance - Temperature Characteristics

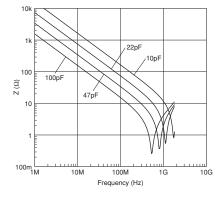




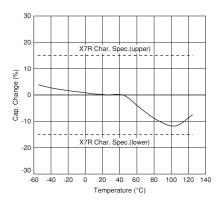
GR4 Series



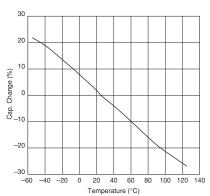
■ Impedance - Frequency Characteristics GRM Series (C0G Char. 250V)



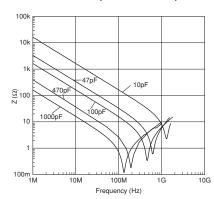
X7R Characteristics



X7T Characteristics



GRM Series (C0G Char. 630V)





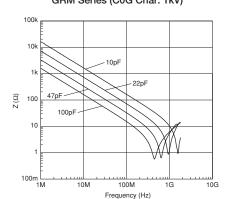




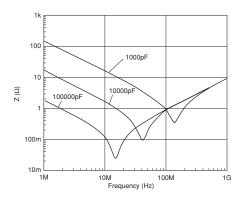
GRM/GRJ/GR3/GR4/GR7/GA2/GA3 Series Reference Data (Typical Example)

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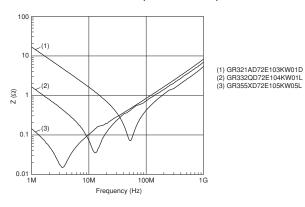
■ Impedance - Frequency Characteristics GRM Series (C0G Char. 1kV)

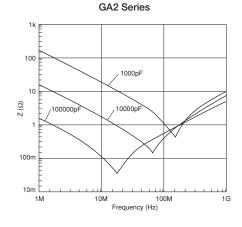


GRM Series (X7R Char. 630V)

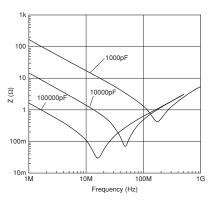


GR3 Series (X7T Char. 250V)

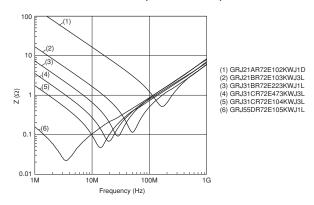




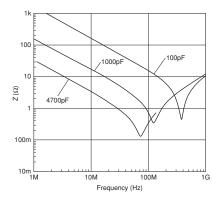
GRM Series (X7R Char. 250V)



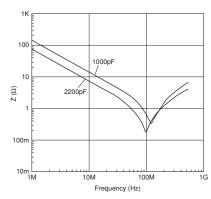
GRJ Series (X7R Char. 250V)



GR4 Series



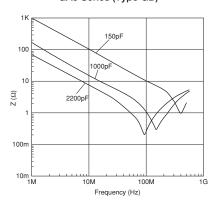
GA3 Series (Type GF)



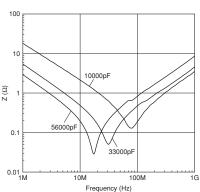
GRM/GRJ/GR3/GR4/GR7/GA2/GA3 Series Reference Data (Typical Example)

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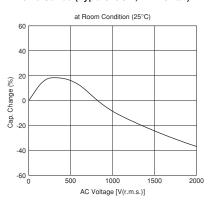
■ Impedance - Frequency Characteristics GA3 Series (Type GD)



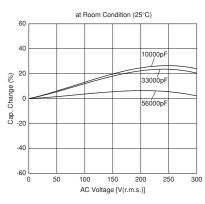
GA3 Series (Type GB)



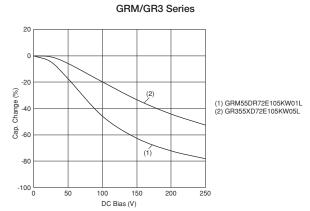
■ Capacitance - AC Voltage Characteristics GA3 Series (Type GF/GD, X7R Char.)



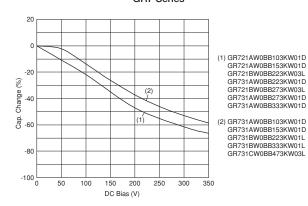
GA3 Series (Type GB)



■ Capacitance - DC Bias Characteristics



GR7 Series





Package

Taping is the standard packaging method.

■ Minimum Quantity Guide

Post N	L		Dimensions (mr	n)		tity (pcs.)
Partin	lumber		144	-		mm Reel
	OPMA	L	W	T	Paper Tape	Embossed Tape
	GRM18	1.6	0.8	0.8	4,000	-
	GRJ21/GRM21/GR321/	2.0	1.25	1.0	4,000	-
	GR721			1.25	-	3,000
	GRJ31/GRM31/GR331/			1.0	4,000	-
	GR731	3.2	1.6	1.25	-	3,000
				1.6	-	2,000
				1.0	4,000	-
	GRJ32/GRM32/GR332	3.2	2.5	1.25	-	3,000
250Vdc min.		•		1.5	-	2,000
For General Purpose &				2.0	-	1,000
Only for Applications	GRM42/GR442	4.5	2.0	1.0	-	3,000
	GHIM-2/GHI-1-12	7.0	2.0	1.5	-	2,000
	GRJ43/GRM43/GR343/ GR443	4.5	3.2	1.5	-	1,000
				2.0	-	1,000
				2.5	-	500
	GRM55	5.7	5.0	1.5	-	1,000
	GRJ55/GRM55/GR355/ GR455	5.7	5.0	2.0	-	1,000
	GR355	5.7	5.0	2.7	-	500
	GA242	4.5	2.0	1.5	-	2,000
				1.5	-	1,000
AC250V	GA243	4.5	3.2	2.0	-	1,000
	GA255	5.7	5.0	2.0	-	1,000
				1.0	-	3,000
	GA342	4.5	2.0	1.5	-	2,000
				2.0	-	2,000
				1.5	-	1,000
	GA343	4.5	3.2	2.0	-	1,000
Safety Std.	GA352	5.7	2.8	1.5	-	1,000
Certification			-	1.5	-	1,000
				2.0	-	1,000
	GA355	5.7	5.0	2.5	-	500
		···	0.0	2.7	-	500
				2.9	-	500

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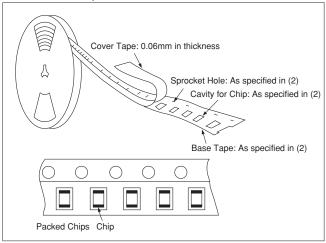
Package

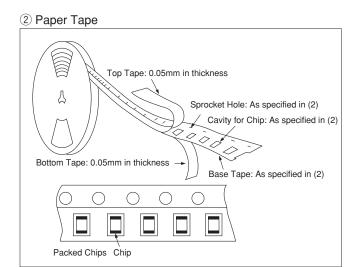
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■ Tape Carrier Packaging

(1) Appearance of Taping

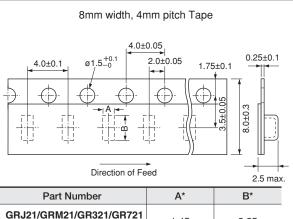
① Embossed Tape





(2) Dimensions of Tape

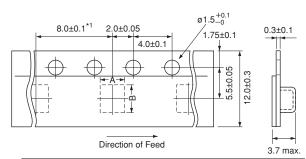
1 Embossed Tape



Part Number	A *	B*
GRJ21/GRM21/GR321/GR721 (T≥1.25mm)	1.45	2.25
GRJ31/GRM31/GR331/GR731 (T≥1.25mm)	2.0	3.6
GRJ32/GRM32/GR332 (T≧1.25mm)	2.9	3.6

*Nominal Value

12mm width, 8mm/4mm pitch Tape



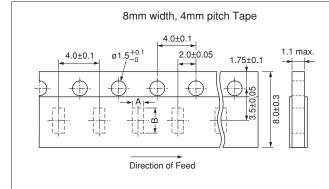
Part Number	A*	B*
GRM42/GR442/GA242/GA342	2.5	5.1
GRJ43/GRM43/GR343/GR443/GA243/GA343	3.6	4.9
GA352	3.2	6.1
GRJ55/GRM55/GR355/GR455/GA255/GA355	5.4	6.1

^{*1 4.0±0.1}mm in case of GRM42/GR442/GA242/GA342

*Nominal Value

(in mm)

2 Paper Tape



Part Number	A*	B*
GRM18	1.05	1.85
GRJ21/GRM21/GR321/GR721 (T=1.0mm)	1.45	2.25
GRM31/GR331/GR731 (T=1.0mm)	2.0	3.6
GRM32 (T=1.0mm)	2.9	3.6

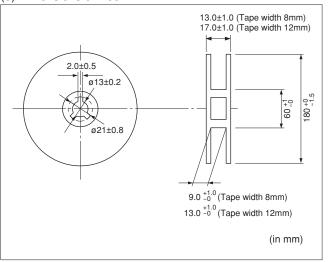
*Nominal Value

(in mm)

Package

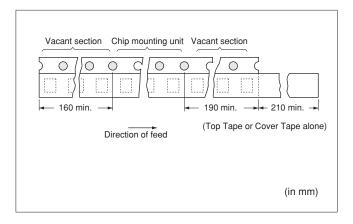
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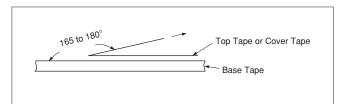
(3) Dimensions of Reel



(4) Taping Method

- ① Tapes for capacitors are wound clockwise. The sprocket holes are to the right as the tape is pulled toward the user.
- ② Part of the leader and part of the empty tape should be attached to the end of the tape as shown at right.
- ③ The top tape or cover tape and base tape are not attached at the end of the tape for a minimum of 5 pitches.
- 4 Missing capacitors number within 0.1% of the number per reel or 1 pc, whichever is greater, and are not continuous.
- (5) The top tape or cover tape and bottom tape should not protrude beyond the edges of the tape and should not cover sprocket holes.
- ⑥ Cumulative tolerance of sprocket holes, 10 pitches: ±0.3mm.
- Peeling off force: 0.1 to 0.6N in the direction shown at right.







⚠ Caution/Notice

⚠Caution

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AC250V Type GA2 Series

■ Storage and Operation Conditions

Do not use or store capacitors in a corrosive atmosphere, especially where chloride gas, sulfide gas, acid, alkali, salt or the like are present. In addition, avoid exposure to moisture. Before cleaning, bonding or molding this product, verify that these processes do not affect product quality by testing the performance of a cleaned, bonded or molded product in the intended equipment. Store the capacitors where the temperature and relative humidity do not exceed 5 to 40 degrees centigrade and 20 to 70%. Use capacitors within 6 months of delivery. Check the solderability after 6 months or more.

■ Rating

1. Operating Voltage

When DC-rated capacitors are to be used in AC or ripple current circuits, be sure to maintain the Vp-p value of the applied voltage or the Vo-p which contains DC bias within the rated voltage range.

When the voltage is applied to the circuit, starting or stopping may generate irregular voltage for a transit period because of resonance or switching. Be sure to use a capacitor with a rated voltage range that includes these irregular voltages.

When DC-rated capacitors are to be used in input circuits from a commercial power source (AC filter), be sure to use Safety Certified Capacitors because various regulations for withstanding voltage or impulses, established for all equipment, should be taken into consideration.

Voltage	DC Voltage	DC+AC Voltage	AC Voltage	Pulse Voltage (1)	Pulse Voltage (2)
Positional Measurement	Vo-p	Vo-p	Vp-p	Vp-p	Vp-p

2. Operating Temperature, Self-generated Heat, and Load Reduction at High-frequency Voltage Condition

Keep the surface temperature of a capacitor below the upper limit of its rated operating temperature range. Be sure to take into account the heat generated by the capacitor itself. When the capacitor is used in a highfrequency voltage, pulse voltage, it may self-generate heat due to dielectric loss.

(1) In the case of X7R, X7T char.

Applied voltage should be the load such as selfgenerated heat is within 20°C on the condition of atmosphere temperature 25°C. When measuring, use a thermocouple of small thermal capacity -K of Ø0.1mm in conditions where the capacitor is not affected by radiant heat from other components or surrounding ambient fluctuations. Excessive heat may lead to deterioration of the capacitor's characteristics and reliability. (Never attempt to perform measurement with the cooling fan running. Otherwise, accurate measurement cannot be ensured.)





AC250V Type GA2 Series

Continued from the preceding page.

(2) In case of C0G, U2J char.

Due to the low self-heating characteristics of low-dissipation capacitors, the allowable electric power of these capacitors is generally much higher than that of X7R characteristic capacitors.

When a high frequency voltage that causes 20°C selfheating to the capacitor is applied, it will exceed the capacitor's allowable electric power.

The frequency of the applied sine wave voltage should be less than 500kHz (less than 100kHz in the case of rated voltage: DC3.15kV). The applied voltage should be less than the value shown in figure below.

In the case of non-sine wave that includes a harmonic frequency, please contact our sales representatives or product engineers. Excessive heat may lead to deterioration of the capacitor's characteristics and reliability. (Never attempt to perform measurement with the cooling fan running. Otherwise, accurate measurement cannot be ensured.)

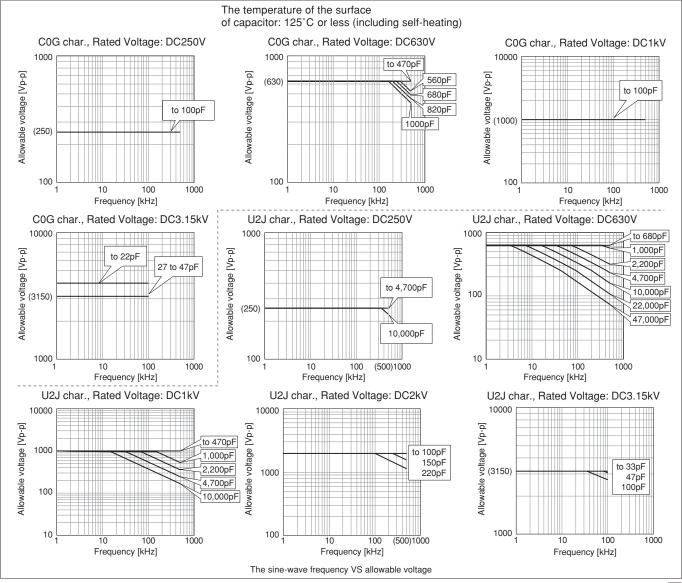
<C0G char., Rated Voltage: DC3.15kV>

The capacitors less than 22pF can be applied maximum 4.0kV peak to peak at 100kHz or less only for the ballast or the resonance usage in the LCD backlight inverter circuit.

<Capacitor Selection Tool>

We are also offering free software/the capacitor selection tool: "Murata Medium Voltage Capacitors Selection Tool by Voltage Form," which will assist you in selecting a suitable capacitor.

The software can be downloaded from Murata's Website. (http://www.murata.com/designlib/mmcsv/index.html). By inputting capacitance values and the applied voltage waveform of the specific capacitor series, this software will calculate the capacitor's power consumption and list suitable capacitors (non-sine wave is also available).









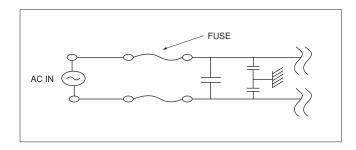
⚠Caution

 $\begin{tabular}{|c|c|c|c|}\hline \end{tabular}$ Continued from the preceding page.

3. Fail-safe

Failure of a capacitor may result in a short circuit. Be sure to provide an appropriate fail-safe function such as a fuse on your product to help eliminate possible electric shock, fire, or fumes.

Please consider using fuses on each AC line if the capacitors are used between the AC input lines and earth (line bypass capacitors), to prepare for the worst case, such as a short circuit.



4. Test Condition for AC Withstanding Voltage

(1) Test Equipment

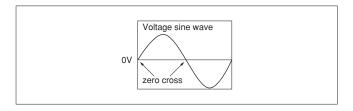
Tests for AC withstanding voltage should be made with equipment capable of creating a wave similar to a 50/60 Hz sine wave.

If the distorted sine wave or overload exceeding the specified voltage value is applied, a defect may be caused.

- *ZERO CROSS is the point where voltage sine wave passes 0V.
- See the figure at right -

(2) Voltage Applied Method

The capacitor's leads or terminals should be firmly connected to the output of the withstanding voltage test equipment, and then the voltage should be raised from near zero to the test voltage. If the test voltage is applied directly to the capacitor without raising it from near zero. it should be applied with the zero cross.* At the end of the test time, the test voltage should be reduced to near zero, and then the capacitor's leads or terminals should be taken off the output of the withstanding voltage test equipment. If the test voltage is applied directly to the capacitor without raising it from near zero, surge voltage may occur and cause a defect.



■ Soldering and Mounting

1. Vibration and Impact

Do not expose a capacitor to excessive shock or vibration during use.

2. Circuit Board Material

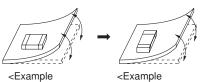
It is possible for the chip to crack by the expansion and shrinkage of a metal board.

Please contact us if you want to use our ceramic capacitors on a metal board such as Aluminum.

3. Land Layout for Cropping PC Board

Choose a mounting position that minimizes the stress imposed on the chip during flexing or bending of the board.

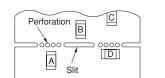
[Component Direction]



<Example to be avoided>

Locate chip horizontal to the direction in which stress acts.

of improvement>



[Chip Mounting Close to Board Separation Point]

Chip arrangement Worst A>C>B~D Best





Only for Applications

Continued from the preceding page.

4. Reflow Soldering

- When components are exposed to sudden heat, their mechanical strength can be decreased due to the extreme temperature changes which can cause flexing and result in internal mechanical damage, which will cause the parts to fail. In order to prevent mechanical damage, preheating is required for both the components and the PCB board. Preheating conditions are shown in Table 1. It is required to keep the temperature differential between the soldering and the components surface (ΔT) as small as possible.
- Solderability of Tin plating termination chips might be deteriorated when low temperature soldering profile where peak solder temperature is below the Tin melting point is used. Please confirm the solderability of Tin plating termination chips before use.
- When components are immersed in solvent after mounting, be sure to maintain the temperature difference (ΔT) between the component and solvent within the range shown in the Table 1.

Table 1

Part Number	Temperature Differential	
G□□18/21/31	ΔΤ≦190℃	
G□□32/42/43/52/55	ΔΤ≦130℃	

Recommended Conditions

	Pb-Sn S	Lead Free Solder	
	Infrared Reflow	Vapor Reflow	Lead Free Solder
Peak Temperature	230-250°C	230-240°C	240-260°C
Atmosphere	Air	Air	Air or N2

Pb-Sn Solder: Sn-37Pb Lead Free Solder: Sn-3.0Ag-0.5Cu

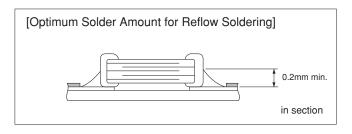
[Standard Conditions for Reflow Soldering] Infrared Reflow Temperature (℃) Soldering Peak Temperature 200°C ΛТ 170°C 150°C 130°C Preheating Time 60-120 seconds 30-60 seconds Vapor Reflow Temperature (°C) Soldering Peak Temperature Gradual ΔΤ 170°C 150°C 130°C Preheating Time 60-120 seconds [Allowable Soldering Temperature and Time] Soldering Temperature (°C) 270 260 250 240 230 90 Soldering Time (sec.) In the case of repeated soldering, the accumulated soldering time must be within the range shown above.

Optimum Solder Amount for Reflow Soldering

- Overly thick application of solder paste results in excessive solder fillet height. This makes the chip more susceptible to mechanical and thermal stress on the board and may cause cracked
- Too little solder paste results in a lack of adhesive strength on the outer electrode, which may result in chips breaking loose from the PCB.
- Make sure the solder has been applied smoothly to the end surface to a height of 0.2mm min.

Inverting the PCB

Make sure not to impose an abnormal mechanical shock on the PCB.





⚠Caution

Continued from the preceding page.

5. Flow Soldering

- When components are exposed to sudden heat, their mechanical strength can be decreased due to the extreme temperature changes which can cause flexing and result in internal mechanical damage, which will cause the parts to fail. Additionally, an excessively long soldering time or high soldering temperature results in leaching by the outer electrodes, causing poor adhesion or a reduction in capacitance value due to loss of contact between electrodes and end termination.
- In order to prevent mechanical damage, preheating is required for both the components and the PCB board. Preheating conditions are shown in Table 2. It is required to keep temperature differential between the soldering and the components surface (ΔT) as small as possible.
- When components are immersed in solvent after mounting, be sure to maintain the temperature difference between the component and solvent within the range shown in Table 2.

Do not apply flow soldering to chips not listed in Table 2.

Table 2

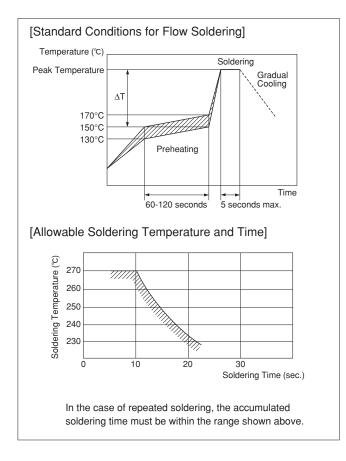
Part Number	Temperature Differential
G□□18/21/31	ΔΤ≦150℃

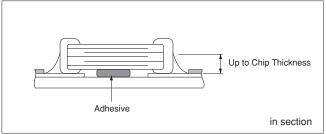
Recommended Conditions

	Pb-Sn Solder	Lead Free Solder
Peak Temperature	240-250°C	250-260°C
Atmosphere	Air	N ₂

Pb-Sn Solder: Sn-37Pb Lead Free Solder: Sn-3.0Ag-0.5Cu

 Optimum Solder Amount for Flow Soldering The top of the solder fillet should be lower than the thickness of components. If the solder amount is excessively large, the risk of cracking is higher during board bending or under any other stressful conditions.









⚠Caution

Continued from the preceding page.

6. Correction with a Soldering Iron

 When sudden heat is applied to the components by use of a soldering iron, the mechanical strength of the components will decrease because the extreme temperature change causes deformations inside the components.

In order to prevent mechanical damage to the components, preheating is required for both the components and the PCB board.

Preheating conditions, (The "Temperature of the Soldering Iron Tip", "Preheating Temperature,"

"Temperature Differential" between iron tip and the

Table 3

Part Number	Temperature of Soldering Iron Tip	Preheating Temperature	Temperature Differential (∆T)	Atmosphere
G□□18/21/31	350°C max.	150°C min.	ΔΤ≦190℃	air
G□□32/42/43/ 52/55	280°C max.	150°C min.	ΔΤ≦130℃	air

*Applicable for both Pb-Sn and Lead Free Solder.

Pb-Sn Solder: Sn-37Pb

Lead Free Solder: Sn-3.0Ag-0.5Cu

 Optimum Solder Amount when re-working Using a Soldering Iron

For sizes smaller than $G\square\square 18$, the top of the solder fillet should be lower than 2/3 of the thickness of the component or 0.5mm whichever is smaller.

For sizes larger than $G \square \square 21$, the top of the solder fillet should be lower than 2/3 of the thickness of the component.

If the solder amount is excessive, the risk of cracking is higher during board bending or under any other stressful conditions.

A Soldering iron ø3mm or smaller should be used. It is also necessary to keep the soldering iron from touching the components during the re-work. Solder wire with ø0.5mm or smaller is required for soldering.

7. Washing

Excessive output of ultrasonic oscillation during cleaning causes PCBs to resonate, resulting in cracked chips or broken solder. Take note not to vibrate PCBs.

8. Handling

Do not directly touch the chip capacitor, especially the ceramic body. Residue from hands/fingers may create a short circuit environment.

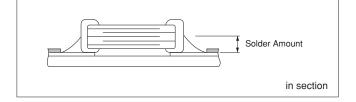
FAILURE TO FOLLOW THE ABOVE CAUTIONS MAY RESULT, WORST CASE, IN A SHORT CIRCUIT AND FUMING WHEN THE PRODUCT IS USED.

components and the PCB), should be within the conditions of table 3.

It is required to keep the temperature differential between the soldering Iron and the component's surface (ΔT) as small as possible.

After soldering, do not allow the component/PCB to cool down rapidly.

The operating time for the re-working should be as short as possible. When re-working time is too long, it may cause solder leaching, in turn causing a reduction of the adhesive strength of the terminations.





AC250V Type GA2 Series

Notice

Rating

1. Capacitance Change of Capacitor

(1) In the case of X7R, X7T char.

Capacitors have an aging characteristic, whereby the capacitor continually decreases its capacitance slightly if the capacitor is left on for a long time. Moreover, capacitance might change greatly depending on the surrounding temperature or an applied voltage. Therefore, it is not likely to be suitable for use in a time constant circuit. Please contact us if you need detailed information.

(2) In the case of any char. except X7R, X7T Capacitance might change a little depending on the surrounding temperature or an applied voltage. Please contact us if you intend to use this product in a strict time constant circuit.

2. Performance Check by Equipment

Before using a capacitor, check that there is no problem in the equipment's performance and the specifications.

Generally speaking, CLASS 2 (X7R, X7T char.) ceramic capacitors have voltage dependence characteristics and temperature dependence characteristics in capacitance. Therefore, the capacitance value may change depending on the operating condition in the equipment.

Accordingly, be sure to confirm the apparatus performance of receiving influence in a capacitance value change of a capacitor, such as leakage current and noise suppression characteristics.

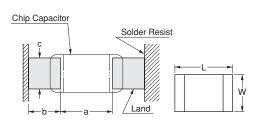
Moreover, check the surge-proof ability of a capacitor in the equipment, if needed, because the surge voltage may exceed the specific value by the inductance of the circuit.

Soldering and Mounting

1. Construction of Board Pattern

After installing chips, if solder is excessively applied to the circuit board, mechanical stress will cause destruction resistance characteristics to lower. To prevent this, be extremely careful in determining shape and dimension before designing the circuit board diagram.

Construction and Dimensions of Pattern (Example)



Flow Soldering

L×W	а	b	С
1.6×0.8	0.6-1.0	0.8-0.9	0.6-0.8
2.0×1.25	1.0-1.2	0.9-1.0	0.8-1.1
3.2×1.6	2.2-2.6	1.0-1.1	1.0-1.4

Flow soldering: 3.2×1.6 or less available.

Reflow Soldering

Trainers desired in the			
L×W	а	b	С
1.6×0.8	0.6-0.8	0.6-0.7	0.6-0.8
2.0×1.25	1.0-1.2	0.6-0.7	0.8-1.1
3.2×1.6	2.2-2.4	0.8-0.9	1.0-1.4
3.2×2.5	2.0-2.4	1.0-1.2	1.8-2.3
4.5×2.0	2.8-3.4	1.2-1.4	1.4-1.8
4.5×3.2	2.8-3.4	1.2-1.4	2.3-3.0
5.7×2.8	4.0-4.6	1.4-1.6	2.1-2.6
5.7×5.0	4.0-4.6	1.4-1.6	3.5-4.8

(in mm)

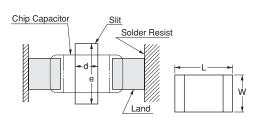
Continued on the following page. $\begin{tabular}{|c|c|c|c|}\hline \end{tabular}$





Notice

Continued from the preceding page. Dimensions of Slit (Example)



Preparing the slit helps flux cleaning and resin coating on the back of the capacitor. However, the length of the slit design should be as short as possible to prevent mechanical damage in the capacitor. A longer slit design might receive more severe mechanical stress from the PCB.

Recommended slit design is shown in the

L×W	d	е
1.6×0.8	-	-
2.0×1.25	-	-
3.2×1.6	1.0-2.0	3.2-3.7
3.2×2.5	1.0-2.0	4.1-4.6
4.5×2.0	1.0-2.8	3.6-4.1
4.5×3.2	1.0-2.8	4.8-5.3
5.7×2.8	1.0-4.0	4.4-4.9
5.7×5.0	1.0-4.0	6.6-7.1

(in mm)

Land Layout to Prevent Excessive Solder

Table.

	Mounting Close to a Chassis	Mounting with Leaded Components	Mounting Leaded Components Later
Examples to Be Avoided	Chassis Solder (Ground solder) Adhesive Base board Land Pattern in section	Lead Wire Connected to a Part Provided with Lead Wires.	Soldering Iron Lead Wire of Component to be Connected Later. in section
Examples of Improvements by the Land Division	d2 d1 <d2 resist<="" solder="" th=""><th>Solder Resist</th><th>Solder Resist</th></d2>	Solder Resist	Solder Resist
	in section	in section	in section

2. Mounting of Chips

- Thickness of adhesives applied Keep thickness of adhesives applied (50-105µm or more) to reinforce the adhesive contact considering the thickness of the termination or capacitor (20-70µm) and the land pattern (30-35µm).
- Mechanical shock of the chip placer When the positioning claws and pick-up nozzle are worn, the load is applied to the chip while positioning is concentrated in one position, thus causing cracks, breakage, faulty positioning accuracy, etc. Careful checking and maintenance are necessary to prevent unexpected trouble. An excessively low bottom dead point of the suction nozzle imposes great force on the chip during mounting, causing cracked chips. Please set the suction nozzle's bottom dead point on the upper surface of the board.





Notice

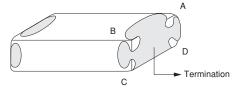
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3. Soldering

(1) Limit of losing effective area of the terminations and conditions needed for soldering.

Depending on the conditions of the soldering temperature and/or immersion (melting time), effective areas may be lost in some parts of the terminations.

To prevent this, be careful in soldering so that any possible loss of the effective area on the terminations will securely remain at a maximum of 25% on all edge length A-B-C-D-A of part with A, B, C, D, shown in the Figure below.



4. Cleaning

Please confirm there is no problem in the reliability of the product beforehand when cleaning it with the intended equipment.

The residue after cleaning it might cause a decrease in the surface resistance of the chip and the corrosion of the electrode part, etc. As a result it might cause reliability to deteriorate. Please confirm beforehand that there is no problem with the intended equipment in ultrasonic cleansing.

5. Resin Coating

Please use it after confirming there is no influence on the product with the intended equipment before the resin coating and molding.

A cracked chip might be caused at the cooling/heating cycle by the amount of resin spreading and/or bias

The resin for coating and molding must be selected as the stress is small when stiffening and the hygroscopic is low as possible.

(2) Flux Application

- An excessive amount of flux generates a large quantity of flux gas, causing deteriorated solderability. So apply flux thinly and evenly throughout. (A foaming system is generally used for flow soldering.)
- Flux containing too high a percentage of halide may cause corrosion of the outer electrodes without sufficient cleaning. Use flux with a halide content of 0.2% max.
- Do not use strong acidic flux.
- Do not use water-soluble flux.* (*Water-soluble flux can be defined as non rosin type flux including wash-type flux and non-wash-type flux.)
- (3) Solder

The use of Sn-Zn based solder will deteriorate the reliability of the MLCC.

Please contact our sales representative or product engineers on the use of Sn-Zn based solder in advance.



MEMO



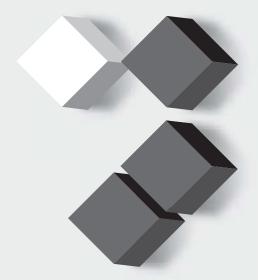
Contents

Metal Terminal Monolithic Ceramic Capacitors

For General Purpose KRM/KR3 Series

High Capacitance for General Use
KRM Seriesp200
Large Capacitance and High Allowable
Ripple Current Type KR3 Seriesp204

Package ····· p208





Metal Terminal Monolithic Ceramic Capacitors

High Capacitance for General Use KRM Series



Deflecting crack



Features

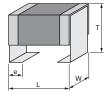
- 1. The product has high reliability against heat and mechanical impact.
- 2. Stacking two capacitors reduces the mounting space and achieves a large capacitance.
- 3. The unique terminal structure greatly reduces noise from the ceramics on the board.

■ Applications

For smoothing and noise suppression of DC-DC converters

Do not use these products in any Automotive Power train or Safety equipment incliding Battery chargers for Electric Vehicles and Plug-in Hybrids. Only Murata products clearly stipulated as "for Automotive use" can be used for automobile appliations such as Power train and Safety equipment.





Part Number	Dimensions (mm)					
Part Number	L	W	T	е		
KRM31F	3.5±0.3	1.7±0.2	1.9±0.1			
	3.5±0.3	1.7±0.2	2.7±0.2	0.8±0.2		
KRM31K	3.6±0.3	1.7±0.2	2.7±0.2	U.0±U.2		
	3.7±0.3	1.85±0.2	2.7±0.2			
KRM55L			2.8±0.2			
KRM55Q	6.1±0.4	5.3±0.2	3.7±0.2	1.2±0.2		
KRM55T	6.1±0.4		4.8±0.2	1.2±0.2		
KRM55W			6.4±0.3			

Part Number	Rated Voltage	TC Code (Standard)	Capacitance	Length L (mm)	Width W (mm)	Thickness T max. (mm)	Metal Terminal Width e (mm)
KRM31FR61E106KH01K	25Vdc	X5R (EIA)	10μF±10%	3.5	1.7	2	0.8±0.2mm
KRM31KC81E106KH01K	25Vdc	X6S (EIA)	10μF±10%	3.5	1.7	2.9	0.8±0.2mm
KRM55LR71E156KH01K	25Vdc	X7R (EIA)	15µF±10%	6.1	5.3	3	1.2±0.2mm
KRM55QR71E226KH01K	25Vdc	X7R (EIA)	22μF±10%	6.1	5.3	3.9	1.2±0.2mm
KRM55TR71E336MH01K	25Vdc	X7R (EIA)	33μF±20%	6.1	5.3	5	1.2±0.2mm
KRM55WR71E476MH01K	25Vdc	X7R (EIA)	47μF±20%	6.1	5.3	6.7	1.2±0.2mm
KRM31KR71H225KH01K	50Vdc	X7R (EIA)	2.2µF±10%	3.6	1.7	2.9	0.8±0.2mm
KRM31KR71H475KH01K	50Vdc	X7R (EIA)	4.7μF±10%	3.5	1.7	2.9	0.8±0.2mm
KRM55LR71H475KH01K	50Vdc	X7R (EIA)	4.7μF±10%	6.1	5.3	3	1.2±0.2mm
KRM55QR71H106KH01K	50Vdc	X7R (EIA)	10μF±10%	6.1	5.3	3.9	1.2±0.2mm
KRM55WR71H226MH01K	50Vdc	X7R (EIA)	22μF±20%	6.1	5.3	6.7	1.2±0.2mm
KRM55LR71J475KH01K	63Vdc	X7R (EIA)	4.7μF±10%	6.1	5.3	3	1.2±0.2mm
KRM55QR71J106KH01K	63Vdc	X7R (EIA)	10μF±10%	6.1	5.3	3.9	1.2±0.2mm
KRM55WR71J226MH01K	63Vdc	X7R (EIA)	22μF±20%	6.1	5.3	6.7	1.2±0.2mm
KRM31KR72A105KH01K	100Vdc	X7R (EIA)	1.0µF±10%	3.5	1.7	2.9	0.8±0.2mm
KRM31KR72A225KH01K	100Vdc	X7R (EIA)	2.2µF±10%	3.7	1.7	2.9	0.8±0.2mm
KRM55LR72A475KH01K	100Vdc	X7R (EIA)	4.7μF±10%	6.1	5.3	3	1.2±0.2mm
KRM55QR72A685KH01K	100Vdc	X7R (EIA)	6.8µF±10%	6.1	5.3	3.9	1.2±0.2mm
KRM55TR72A106MH01K	100Vdc	X7R (EIA)	10μF±20%	6.1	5.3	5	1.2±0.2mm
KRM55WR72A156MH01K	100Vdc	X7R (EIA)	15µF±20%	6.1	5.3	6.7	1.2±0.2mm

KRM Series Specifications and Test Methods

No.	Item	Specifications	Test Method			
1	Operating Temperature Range	X5R Char.: -55 to +85°C X6S Char.: -55 to +105°C X7R Char.: -55 to +125°C	Reference temperature: 25°C			
2	Appearance	No defects or abnormalities	Visual inspection			
3	Dimensions	Within the specified dimensions	Using calipers and micrometers			
4	Dielectric Strength	No defects or abnormalities	No failure should be observed when voltage in the table is applied between the terminations for 1 to 5 sec., provided the charge/discharge current is less than 50mA. Rated Voltage Test Voltage			
5	Insulation Resistance (I.R.)	[KRM31] W.V.: 25V : More than $50M\Omega \cdot \mu F$ W.V.: $50V/100V$: More than $500M\Omega \cdot \mu F$ [KRM55] More than $100M\Omega \cdot \mu F$	DC100V 200% of the rated voltage The insulation resistance should be measured with Rated Voltage and within 60±5 sec. of charging.			
6	Capacitance	Within the specified tolerance				
7	Dissipation Factor (D.F.)	[KRM31] W.V.: 25V : 0.15 max. W.V.: 50V : 0.025 max. W.V.: 100V : 0.05 max. [KRM55] 0.025 max.	The capacitance/D.F. should be measured at reference temperature at the meaning frequency and voltage shown in the table. Nominal Capacitance Frequency Voltage			
8	Capacitance Temperature Characteristics	X5R Char.: Within ±15% (Temp. Range: -55 to +85°C) X6S Char.: Within ±22% (Temp. Range: -55 to +105°C) X7R Char.: Within ±15% (Temp. Range: -55 to +125°C)	The capacitance measurement should be made at each step specified in the Table. Step			
9	Strength of Metal Terminal	Termination not to be broken or loosened	A static load of 10N using a pressure rod should be applied to the center in the direction of the arrow and held for 10 s. Pressure Pressure Rod			
10	Adhesive Strength of Termination	No removal of the terminations or other defect should occur.	Solder the capacitor to the testing jig (glass epoxy board) show in Fig. 1. Then apply 10N force in the direction of the arrow. The soldering should be done using the reflow method and should be conducted with care so that the soldering is uniform and free defects such as heat shock. Glass Epoxy Board Fig. 1			

(*1) "Room condition" Temperature: 15 to 35°C, Relative humidity: 45 to 75%, Atmospheric pressure: 86 to 106kPa





KRM Series Specifications and Test Methods

Continued from the preceding page.

No.	Ite	em	Specifications	Test Method	
	Appearanc Capacitanc		No defects or abnormalities Within the specified tolerance	Solder the capacitor to the test jig (glass epoxy board). The capacitor should be subjected to a simple harmonic motion having a total amplitude of 1.5mm, the frequency being varied uniformly between the approximate limits of 10 and 55Hz. The frequency range, from 10 to 55Hz and return to 10Hz,	
11	Vibration Resistance	D.F.	In accordance with item No.7	should be traversed in approximately 1 min. This motion should be applied for a period of 2 hrs. in each of 3 mutually perpendicular directions (total of 6 hrs.). Solder Resist Glass Epoxy Board	
12	Deflection	n	No marking defects	Solder the capacitor to the testing jig (glass epoxy board) shown in Fig. 2. Then apply a force in the direction shown in Fig. 3. The soldering should be done using the reflow method and should be conducted with care so that the soldering is uniform and free of defects such as heat shock. 20 50 Fig. 3 Fig. 3 (in mm)	
13	Solderability of Termination		The metal surface is soldered well	Reflow Soldering: Peak 260+0/-5°C The area of soldering 230°C min., 20 to 40 s Let sit for 24±2 h at room condition,* then measure. •Pretreatment Perform the heat treatment at 150+0/-10°C for 60±5 min. and then let sit for 24±2 h at room condition. (*1) 300°C 200°C 180°C 100°C 180°C 60 to 120 s	
		Appearance	No marking defects	•In case of Reflow Soldering	
	Resistance	Capacitance Change	Within ±10%	See item 13 Solderability of termination •In case of Soldering Iron	
14	to Soldering Heat	D.F.	In accordance with item No.7	Temp. of solder: 350±10°C Solder time: 4+1/-0 s	
		I.R. Dielectric Strength	In accordance with item No.5 In accordance with item No.4	Let sit for 24±2 hrs.at room condition,* then measure Please refer to "Caution (Soldering and Mounting) Correction with a Soldering Iron"	

(*1) "Room condition" Temperature: 15 to 35°C, Relative humidity: 45 to 75%, Atmospheric pressure: 86 to 106kPa





KRM Series Specifications and Test Methods

Continued from the preceding page.

No.	Ite	em	Specifications	Test Method
		Appearance	No marking defects	Fix the capacitor to the supporting jig (glass epoxy board) shown
		Capacitance Change	Within ±7.5%	in Fig. 4. Perform the 100 cycles according to the 4 heat treatments listed in the following table.
		D.F.	In accordance with item No.7	Let sit for 24±2 hrs. at room condition,* then measure.
		I.R.	In accordance with item No.5	Step Temperature (°C) Time (min.)
		I.n.	III accordance with item No.5	1 Min. Operating Temp. ±3 30±3
				2 Room Temp. 2 to 3
				3 Max. Operating Temp. ±2 30±3
15	Temperature Cycle	Dielectric	In accordance with item No.4	4 Room Temp. 2 to 3 •Pretreatment Perform a heat treatment at 150+0/-10°C for 60±5 min. and then let sit for 24±2 hrs. at room condition. (*1)
		Strength	III accordance with term 140.4	Solder Resist Glass Epoxy Board Fig. 4
_		Appearance	No marking defects	g
		Capacitance Change	Within ±15%	
16	Humidity (Steady State)	D.F.	[KRM31] W.V.: 25V : 0.2 max. W.V.: 50V/100V : 0.05 max. [KRM55] 0.05 max.	Let the capacitor sit at 40±2°C and relative humidity of 90 to 95% for 500+24/-0 hrs. Remove and let sit for 24±2 hrs. at room condition,* then measure.
		I.R.	$ [KRM31] \\ W.V.: 25V \\ : More than 12.5M\Omega \cdot \mu F \\ W.V.: 50V/100V \\ : More than 50M\Omega \cdot \mu F \\ [KRM55] \\ More than 10M\Omega \cdot \mu F $	Pretreatment Perform a heat treatment at 150+0/-10°C for 60±5 min. and then let sit for 24±2 hrs. at room condition. (*1)
		Dielectric Strength	In accordance with item No.4	
		Appearance	No marking defects	
		Capacitance Change	Within ±15%	
		D.F.	[KRM31] W.V.: 25V : 0.2 max. W.V.: 50V/100V : 0.05 max.	Apply voltage as in the Table for 1000+48/-0 hrs. at maximum operating temperature ±3°C. Remove and let sit for 24±2 hrs. at room condition, (*1) then measure. Rated Voltage Applied Voltage DC25V, DC50V 200% of the rated voltage (*2)
			[KRM55] 0.05 max.	DC63V, DC100V 150% of the rated voltage
17	Life	I.R.	[KRM31] W.V.: 25V : More than $25M\Omega \cdot \mu F$ W.V.: $50V/100V$: More than $50M\Omega \cdot \mu F$ [KRM55] More than $10M\Omega \cdot \mu F$	The charge/discharge current is than 50mA. •Pretreatment Perform a heat treatment at 150+0/-10°C for 60±5 min. and then let sit for 24±2 hrs. at room condition. (*1) (*2) KRM31KC81E106, KRM31FR61E106, KRM31KR71H225, KRM31KR71H475, KRM31KR72A105 : 150% of the rated voltage
		Dielectric Strength	In accordance with item No.4	

(*1) "Room condition" Temperature: 15 to 35°C, Relative humidity: 45 to 75%, Atmospheric pressure: 86 to 106kPa



Metal Terminal Monolithic Ceramic Capacitors

Large Capacitance and High Allowable Ripple Current KR3 Series



Deflecting crack



Features

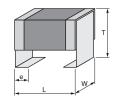
- 1. The product has high reliability against heat and mechanical impact.
- 2. Stacking two capacitors reduces the mounting space and achieves a large capacitance.
- 3. The unique terminal structure greatly reduces noise from the ceramics on the board.
- 4. This series can provide higher capacitance value under DC-Bias condition, compare with previous X7R char.
- 5. Improve the performance of ripple-resistance compared with X7R char.

Applications

- 1. DC smoothing & EMI filiter for LED Lighting.
- 2. For PFC circuit in the swiching power supplies, AC adaptor.
- 3. DC-DC converter for general electronic equipment.

Do not use these products in any Automotive Power train or Safety equipment incliding Battery chargers for Electric Vehicles and Plug-in Hybrids. Only Murata products clearly stipulated as "for Automotive use" can be used for automobile appliations such as Power train and Safety equipment.





Part Number		Dimension	ons (mm)	
rait Nullibel	L	W	Т	е
KR355L	6.1±0.4		2.8±0.2	
KR355Q		F 0.00	3.7±0.2	1.2±0.2
KR355T		5.3±0.2	4.8±0.2	1.2±0.2
KR355W			6.4±0.3	

Part Number	Rated Voltage	TC Code (Standard)	Capacitance	Length L (mm)	Width W (mm)	Thickness T max. (mm)	Metal Terminal Width e (mm)
KR355LD72E474KH01K	250Vdc	X7T (EIA)	0.47µF±10%	6.1	5.3	3	1.2±0.2mm
KR355QD72E105KH01K	250Vdc	X7T (EIA)	1.0µF±10%	6.1	5.3	3.9	1.2±0.2mm
KR355WD72E225MH01K	250Vdc	X7T (EIA)	2.2µF±20%	6.1	5.3	6.7	1.2±0.2mm
KR355LD72W224KH01K	450Vdc	X7T (EIA)	0.22µF±10%	6.1	5.3	3	1.2±0.2mm
KR355LD72W474KH01K	450Vdc	X7T (EIA)	0.47µF±10%	6.1	5.3	3	1.2±0.2mm
KR355QD72W564KH01K	450Vdc	X7T (EIA)	0.56µF±10%	6.1	5.3	3.9	1.2±0.2mm
KR355TD72W105MH01K	450Vdc	X7T (EIA)	1.0µF±20%	6.1	5.3	5	1.2±0.2mm
KR355WD72W125MH01K	450Vdc	X7T (EIA)	1.2µF±20%	6.1	5.3	6.7	1.2±0.2mm
KR355LD72J104KH01K	630Vdc	X7T (EIA)	0.1µF±10%	6.1	5.3	3	1.2±0.2mm
KR355LD72J154KH01K	630Vdc	X7T (EIA)	0.15µF±10%	6.1	5.3	3	1.2±0.2mm
KR355QD72J224KH01K	630Vdc	X7T (EIA)	0.22µF±10%	6.1	5.3	3.9	1.2±0.2mm
KR355QD72J274KH01K	630Vdc	X7T (EIA)	0.27µF±10%	6.1	5.3	3.9	1.2±0.2mm
KR355WD72J474MH01K	630Vdc	X7T (EIA)	0.47µF±20%	6.1	5.3	6.7	1.2±0.2mm
KR355WD72J564MH01K	630Vdc	X7T (EIA)	0.56µF±20%	6.1	5.3	6.7	1.2±0.2mm

KR3 Series Specifications and Test Methods

No.	Ite	em	Specifications	Test I	Method	
1	Operating Temperatu	ıre Range	-55 to +125°C	Reference temperature: 25°C		
2	Appearan	ice	No defects or adnormalities	Visual inspection		
3	Dimensio	ns	Within the specified dimensions	Using calipers and micrometers	3	
	Dielectric Strength			No failure should be observed applied between the termination charge/discharge current is less	ns for 1 to 5 sec., provided the s than 50mA.	
4			No defects or abnormalities	Rated Voltage DC250V DC450V DC630V	Test Voltage 200% of the rated voltage 150% of the rated voltage 120% of the rated voltage	
5	Insulation F (I.R.)	Resistance	More than 10,000M Ω or 100 Ω · μ F (Whichever is Smaller)	The inslation resisitance should DC500V±50V (DC250V±25V ir DC250V, DC450V) and within 6	case of rated Voltage:	
6	Capacita	nce	Within the specified tolerance	The committee of D. F. alternation		
7	Dissipation Factor (D		0.01 max.	The capacitance/D.F. should be 1±0.2kHz and a voltage of AC1		
8	Capacital Temperat Charactel	ture	Cap. Change Within +22/-33% (Temp. Range: -55 to +125°C)	The capacitance measurement should be made at a specified in the table. Step		
9	Strength of Metal Terminal		Termination not to be broken or loosened	A static load of 10N using a pre the center in the direction of the		
10	Adhesive Strength of Termination		No removal of the terminations or other defect should occur.	in Fig. 1. Then apply 10N force in the direction apply 10N force in the direction and free defects such as heat such as he	sing the reflow method and so that the soldering is uniform	
		Appearance	No defects or abnormalities	Solder the capacitor to the test	-	
		Capacitance	Within the specified tolerance	The capacitor should be subject	ted to a simple harmonic motion	
11	Vibration Resistance	D.F.	In accordance with item No.7	having a total amplitude of 1.5n uniformly between the approxin The frequency range, from 10 t should be traversed in approxin be applied for a period of 2 hrs. perpendicular directions (total c	nate limits of 10 and 55Hz. o 55Hz and return to 10Hz, mately 1 min. This motion should in each of 3 mutually of 6 hrs.).	

^{* &}quot;Room condition" Temperature: 15 to 35°C, Relative humidity: 45 to 75%, Atmospheric pressure: 86 to 106kPa





KR3 Series Specifications and Test Methods

Continued from the preceding page.

No.	Ite	em	Spec	eifications			Test Method	
12	2 Deflection		No marking defects				force in the direction shown in should be done using the reladucted with care so that the effects such as heat shock. 20 50	n Fig. 3. low method and soldering is uniform
13			The metal surface is soldered w	-		Reflow Soldering: Peak 260+0/-5°C The area of soldering 230°C min., 20 to 40 s Let sit for 24±2 hrs. at room condition*, then •Pretreatment Perform the heat treatment at 150+0/-10°C then let sit for 24±2 hrs. at room condition.* 300°C 200 to 40 s 180°C 150°C 150°C 60 to 120 s		on measure. C for 60±5 min. and n.*
		Appearance	No marking defects					
	Resistance	Capacitance Change	Within ±10%			In case of Reflow Soldering See item 13 Solderability of Termination In case of Soldering Iron		
14	to Soldering	D.F.	In accordance with item No.7			Temp. of sol Solder time:	der: 350±10°C	
	Heat	I.R.	In accordance with item No.5				±2 hrs.at room condition,* the	en measure.
		Dielectric Strength	In accordance with item No.4			Please refer with a Solde	founting) Correction	
		Appearance	No marking defects				tor to the supporting jig (glass	epoxy board) shown
		Capacitance Change	Within ±7.5%			in Fig. 4. Perform the 100 cycles according to the 4 in the following table.		eat treatments listed
		D.F.	In accordance with item No.7				2 hrs. at room condition*, ther	
		I.R.	In accordance with item No.5			Step 1	Temperature (°C) Min. Operating Temp. ±3	Time (min.) 30±3
						2	Room Temp.	2 to 3
						3 4	Min. Operating Temp. ±2 Room Temp.	30±3 2 to 3
15					•Pretreatme		for 60±5 min. and n.*	

^{* &}quot;Room condition" Temperature: 15 to 35°C, Relative humidity: 45 to 75%, Atmospheric pressure: 86 to 106kPa





KR3 Series Specifications and Test Methods

Continued from the preceding page.

No.	Ite	em	Specifications	Test Method			
		Appearance	No marking defects				
	Humidity	Capacitance Change	Within ±12.5%	Let the capacitor sit at 40±2°C and refor 500+24/-0 hrs. Remove and let sit for 24±2 hrs. at ro	,		
16	(Steady	D.F.	0.02 max.	measure.	, , , , , , , , , , , , , , , , , , , ,		
	State)	I.R.	More than 1,000M Ω or 10M Ω · μF (Whichever is smaller)	Pretreatment Perform a heat treatment at 150+0/-10°C for 60±5 min.			
		Dielectric Strength	In accordance with item No.4	then let sit for 24±2 hrs. at room condition.*			
		Appearance	No marking defects	Apply voltage as in the Table for 1000+48/-0 hrs. at maximum operating temperature ±3°C. Remove and let sit for 24±2 hrs. at room condition,* then measure.			
		Capacitance Change	Within ±12.5%				
		D.F.	0.02 max.		pplied Voltage		
17	Life	I.R.	More than 1,000M Ω or 10M Ω · μ F (Whichever is smaller)	DC450V 130%	of the rated voltage of the rated voltage		
				DC630V	of the rated voltage		
		Dielectric Strength	In accordance with item No.4	The charge/discharge current is than 50mA. •Pretreatment Apply test voltage for 60±5min. at test temperature. Remove and let sit for 24±2 hrs, at room condition.*			

 $^{^{\}star}$ "Room condition" Temperature: 15 to 35°C, Relative humidity: 45 to 75%, Atmospheric pressure: 86 to 106kPa



Package

Taping is standard packaging method.

■ Minimum Quantity Guide

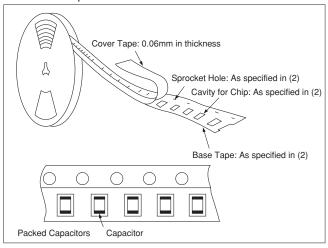
Part Number		Quantity (pcs.)		
Part Number	L	W	Т	ø330mm Reel
K□□31K	3.5	1.7	2.7	4,000
K□□31F	3.5	1.7	1.9	5,000
K□□55L	6.1	5.3	2.8	2,000
K□□55Q	6.1	5.3	3.7	1,000
K□□55T	6.1	5.3	4.8	1,000
K□□55W	6.1	5.3	6.4	500

ø180mm reel is also available.

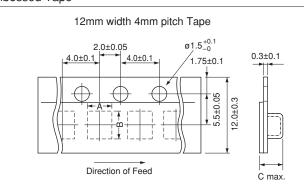
■ Tape Carrier Packaging

(1) Appearance of Taping

Embossed Tape

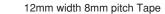


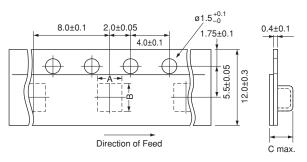
(2) Dimensions of Tape **Embossed Tape**



Part Number	A*	B*	С
K□□31K	2.2	4.1	4.1
K□□31F	2.2	4.1	2.8

*Nominal Value

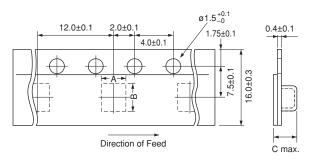




Part Number	A*	B*	С
K□□55L	5.5	6.4	4.1
K□□55Q	5.5	6.4	5.8
K□□55T	5.5	6.4	5.8

*Nominal Value

16mm width 12mm pitch Tape



Part Number	A*	B*	С
K□□55W	5.7	6.7	7.4

*Nominal Value

(in mm)

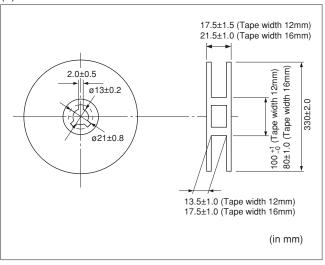




Package

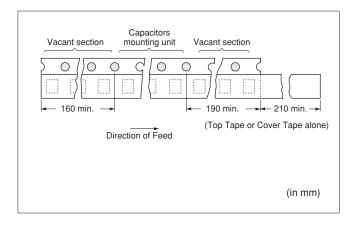
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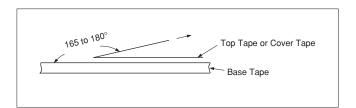
(3) Dimensions of Reel



(4) Taping Method

- Tapes for capacitors are wound clockwise. The sprocket holes are to the right as the tape is pulled toward the user.
- ② Part of the leader and part of the empty tape should be attached to the end of the tape as shown at right.
- ③ The top tape or cover tape and base tape are not attached at the end of the tape for a minimum of 5 pitches.
- Missing capacitors number within 0.1% of the number per reel or 1 pc, whichever is greater, and are not continuous.
- (5) The top tape or cover tape and bottom tape should not protrude beyond the edges of the tape and should not cover sprocket holes.
- ⑥ Cumulative tolerance of sprocket holes, 10 pitches: ±0.3mm.
- Peeling off force: 0.1 to 0.6N in the direction shown at right.







⚠ Caution/Notice

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⚠Caution

■ Storage and Operation Conditions

Do not use or store capacitors in a corrosive atmosphere, especially where chloride gas, sulfide gas, acid, alkali, salt or the like are present. In addition, avoid exposure to moisture. Before cleaning, bonding or molding this product, verify that these processes do not affect product quality by testing the

performance of a cleaned, bonded or molded product in the intended equipment. Store the capacitors where the temperature and relative humidity do not exceed 5 to 40 degrees centigrade and 20 to 70%. Use capacitors within 6 months of delivery. Check the solderability after 6 months or more.

■ Rating

1. Operating Voltage

When DC-rated capacitors are to be used in AC or ripple current circuits, be sure to maintain the Vp-p value of the applied voltage or the Vo-p which contains DC bias within the rated voltage range.

When the voltage is applied to the circuit, starting or stopping may generate irregular voltage for a transit period because of resonance or switching. Be sure to use a capacitor with a rated voltage range that includes these irregular voltages.

When DC-rated capacitors are to be used in input circuits from a commercial power source (AC filter), be sure to use Safety Certified Capacitors because various regulations for withstanding voltage or impulses, established for all equipment, should be taken into consideration.

Voltage	DC Voltage	DC+AC Voltage	AC Voltage	Pulse Voltage (1)	Pulse Voltage (2)
Positional Measurement	Vo-p	V ₀ -p	Vp-p	Vp-p	Vp-p

2. Operating Temperature and Self-generated Heat

Keep the surface temperature of a capacitor below the upper limit of its rated operating temperature range. Be sure to take into account the heat generated by the capacitor itself. When the capacitor is used in a highfrequency voltage, pulse voltage, it may self-generate heat due to dielectric loss.

Applied voltage should be the load such as selfgenerated heat is within 20°C on the condition of atmosphere temperature 25°C. When measuring, use a thermocouple of small thermal capacity -K of ø0.1mm in conditions where the capacitor is not affected by radiant heat from other components or surrounding ambient fluctuations. Excessive heat may lead to deterioration of the capacitor's characteristics and reliability. (Never attempt to perform measurement with the cooling fan running. Otherwise, accurate measurement cannot be ensured.)

3. Fail-safe

Failure of a capacitor may result in a short circuit. Be sure to provide an appropriate fail-safe function such as a fuse on your product to help eliminate possible electric shock, fire, or fumes.

Continued on the following page. $|\nearrow|$





Continued from the preceding page.

Soldering and Mounting

1. Vibration and Impact

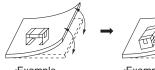
Do not expose a capacitor to excessive shock or vibration during use.

Do not directly touch the capacitor, especially the ceramic body. Residue from hands/fingers may create a short circuit environment.

2. Land Layout for Cropping PC Board

Choose a mounting position that minimizes the stress imposed on the chip during flexing or bending of the board.

[Component Direction]



<Example to be avoided>

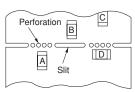
stress acts. <Example of improvement>

Locate chip

horizontal to the

direction in which

[Chip Mounting Close to Board Separation Point]



Chip arrangement Worst A>C>B~D Best

3. Reflow Soldering

- When components are exposed to sudden heat, their mechanical strength can be decreased due to the extreme temperature changes which can cause flexing and result in internal mechanical damage, which will cause the parts to fail. In order to prevent mechanical damage, preheating is required for both the components and the PCB board. Preheating conditions are shown in Table 1. It is required to keep the temperature differential between the soldering and the components surface (ΔT) as small as possible.
- When components are immersed in solvent after mounting, be sure to maintain the temperature difference (ΔT) between the component and solvent within the range shown in the Table 1.

Table 1

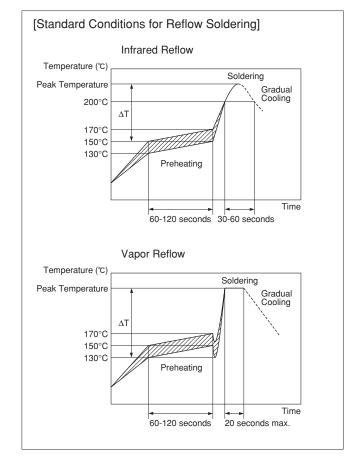
Part Number	Temperature Differential	
K□□31	ΔΤ≦190℃	
K□□55	ΔΤ≦130℃	

Recommended Conditions

	Pb-Sn S	Solder	Lead Free Solder	
	Infrared Reflow	Vapor Reflow	Lead Free Solder	
Peak Temperature	230-250°C	230-240°C	240-260°C	
Atmosphere	Air	Air	Air or N2	

Pb-Sn Solder: Sn-37Pb

Lead Free Solder: Sn-3.0Ag-0.5Cu







⚠Caution

Continued from the preceding page.

Optimum Solder Amount for Reflow Soldering

- If solder paste is excessive, solder between a chip and a metal terminal melts. This causes the chip to move and come off
- If solder paste is too little, it causes a lack of adhesive strength on the metal terminal and the capacitor comes off
- Please make sure that solder is smoothly applied higher than 0.3mm and lower than the level of the bottom of the chip.

Inverting the PCB

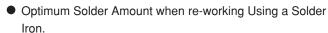
Make sure not to impose an abnormal mechanical shock on the PCB.

4. Flow Soldering

Do not apply flow soldering.

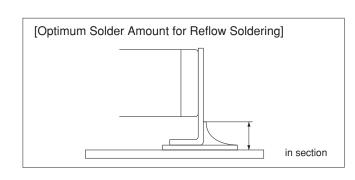
5. Correction with a Soldering Iron

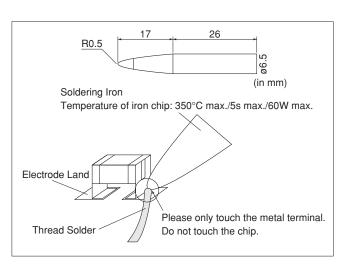
- Please refer to the figure of a soldering iron on the right.
- Please use thread solder which is smaller than 0.5mm in diameter.
- A soldering iron must be touched the bottom of metal terminal
 - *1) Do not touch ceramic, or it causes cracks because of sudden heat.
 - *2) Do not touch the connection between a chip and a metal and the outside of that area, or it causes the chip to move and come off.

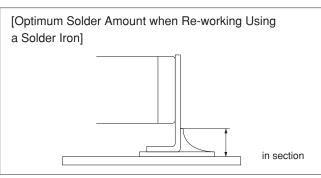


The top of the solder fillet should be lower than the level of the bottom of the chip.

FAILURE TO FOLLOW THE ABOVE CAUTIONS MAY RESULT, WORST CASE, IN A SHORT CIRCUIT AND CAUSE FUMING OR PARTIAL DISPERSION WHEN THE PRODUCT IS USED.







Notice

■ Rating

1. Capacitance Change of Capacitor

Capacitors have an aging characteristic, whereby the capacitor continually decreases its capacitance slightly if the capacitor is left on for a long time. Moreover, capacitance might change greatly depending on the surrounding temperature or an applied voltage. Therefore, it is not likely to be suitable for use in a time constant circuit.

Please contact us if you need detailed information.

2. Performance Check by Equipment

Before using a capacitor, check that there is no problem in the equipment's performance and the specifications.

■ Soldering and Mounting

1. Construction of Board Pattern

If solder is excessively applied to the circuit board, mechanical stress will cause destruction resistance characteristics to lower. To prevent this, be extremely careful in determining shape and dimension before designing the circuit board diagram.

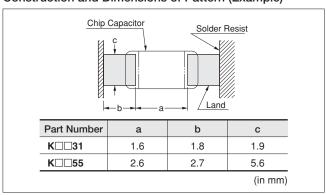
Generally speaking, CLASS 2 ceramic capacitors have voltage dependence characteristics and temperature dependence characteristics in capacitance.

Therefore, the capacitance value may change depending on the operating condition in the equipment.

Accordingly, be sure to confirm the apparatus performance of receiving influence in a capacitance value change of a capacitor, such as leakage current and noise suppression characteristics.

Moreover, check the surge-proof ability of a capacitor in the equipment, if needed, because the surge voltage may exceed the specific value by the inductance of the circuit.

Construction and Dimensions of Pattern (Example)



2. Mounting of Chips

Mechanical shock of the chip placer

When the positioning claws and pick-up nozzle are worn, the load is applied to the chip while positioning is concentrated in one position, thus causing cracks, breakage, faulty positioning accuracy, etc.

Careful checking and maintenance are necessary to prevent unexpected trouble.

An excessively low bottom dead point of the suction nozzle imposes great force on the chip during mounting, causing cracked chips and the metal to bend. Please set the suction nozzle's bottom dead point on the upper surface of the board.

4. Cleaning

Please confirm there is no problem in the reliability of the product beforehand when cleaning it with the intended equipment.

The residue after cleaning it might cause a decrease in the surface resistance of the chip and the corrosion of the electrode part, etc. As a result it might cause reliability to deteriorate. Please confirm beforehand that there is no problem with the intended equipment in ultrasonic cleansing.

3. Soldering

Flux Application

- Do not use strong acidic flux.
- Do not use water-soluble flux.*
 (*Water-soluble flux can be defined as non rosin type flux including wash-type flux and non-wash-type flux.)

5. Resin Coating

Please use it after confirming there is no influence on the product with the intended equipment before the resin coating and molding.

A cracked chip might be caused at the cooling/heating cycle by the amount of resin spreading and/or bias thickness.

The resin for coating and molding must be selected as the stress is small when stiffening and the hygroscopic is low as possible.



ISO 9001 Certifications

■ Qualified Standards

The products listed here have been produced by ISO 9001 certified factory.

Plant
Fukui Murata Mfg. Co., Ltd.
Izumo Murata Mfg. Co., Ltd.
Okayama Murata Mfg. Co., Ltd.
Murata Electronics Singapore (Pte.) Ltd.
Beijing Murata Electronics Co., Ltd.
Wuxi Murata Electronics Co., Ltd.
Beijing Murata Electronics Co., Ltd.



Design assistant tool SimSurfing SimSurfing



MLCC is now available!

Design assistant tool "SimSurfing" has been updated and you can now find and view any kind of characteristics of MLCCs.

Available function for MLCCs.

- 1) Products search
- ② View frequency characteristics (S parameters, Z, R, X, Q, DF, L, C) DC bias can be applied to available part number.
- ③ DC voltage bias characteristics (Absolute capacitance/change rate)
- 4 Temperature characteristics (Absolute capacitance/change rate)
- ⑤ AC voltage bias characteristics (Absolute capacitance/change rate)
- ⑥ Download SPICE netlist/ S parameter



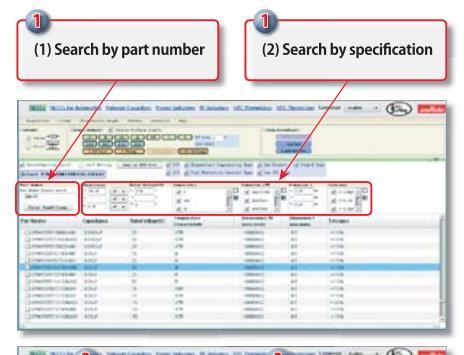
- (1) By part number
- (2) By specification

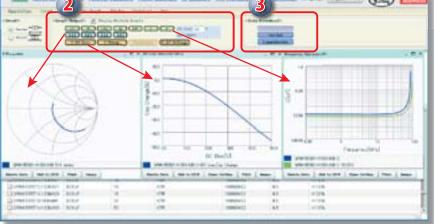
2 View characteristics

Clicking buttons in this area with partnumber selected, you can view any electrical characteristics chart.

3 Data download

You can download SPICE netlist and S parameter files (S2P)





These images are captured at September/2012. Be sure that this software will be updated frequently.

http://ds.murata.com/software/simsurfing/en-us/mlcc/





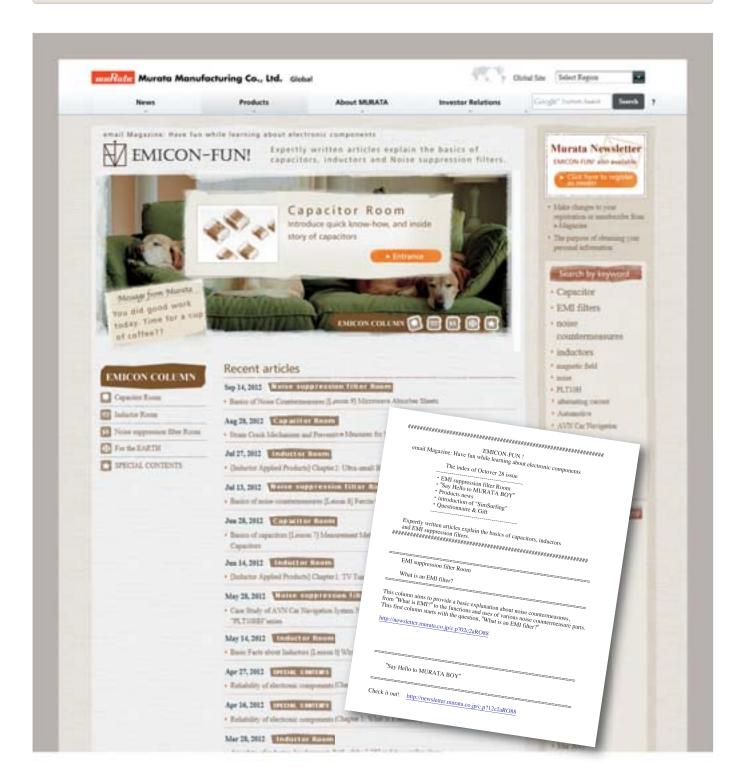
Please check Murata's newsletter! You can learn about electric parts with fun. http://www.murata.com/products/emicon_fun/

EMICON-FUN! disseminated widely from basics (principles, characteristics, mounting, etc.) of capacitors, inductors and EMI suppression filters to information can practically be used.

Updated information is also distributed via the mail magazine.

You can register from the Products page on Murata Manufacturing Web site. http://www.murata.com/products/







Capacitor WEB Site Introduction

The WEB site and search engine of ceramic capacitors has been drastically renewed.

capacitor murata

http://www.murata.com/products/capacitor/

Convenient Search

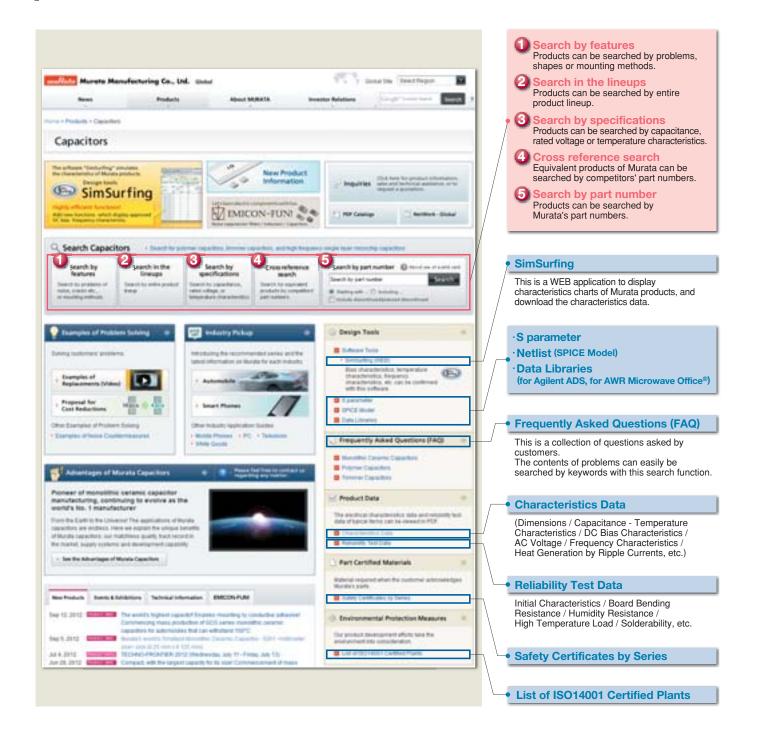
The type of searches has been increased to respond to various ways of searching.

The products you are searching for can easily be found from about 40,000 part numbers!

The frequency of revisions and discontinuance has been increased to provide the latest information at all times!

Substantial Technical Information

- ·Reference drawings (Specifications and Test Methods) can be downloaded in PDF format.
- Graphs of the electrical characteristic data (Capacitance Temperature characteristics / DC bias characteristics / AC voltage characteristics / Frequency characteristics) can be displayed.
- ·Reliability test data can be downloaded.





⚠ Note:

1. Export Control

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- ② Aerospace equipment (4) Power plant equipment
- ③ Undersea equipment (5) Medical equipment
- 6 Transportation equipment (vehicles, trains, ships, etc.)
- (7) Traffic signal equipment
- (8) Disaster prevention / crime prevention equipment
- n Application of similar complexity and/or reliability requirements to the applications listed above Data-processing equipment
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