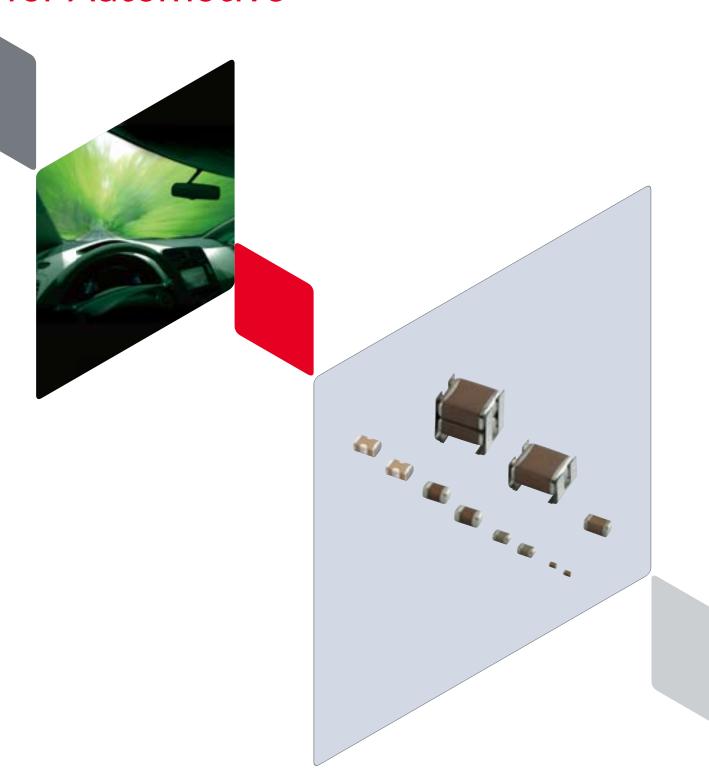


# Chip Multilayer Ceramic Capacitors for Automotive





Product specifications are as of May 2020.

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Please check the MURATA website (https://www.murata.com/) if you cannot find a part number in this catalog.

#### **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 web page, "Murata's Approach for EU RoHS" (https://www.murata.com/eneu/support/compliance/rohs).



## Explanation of Symbols in This Catalog



Links are provided to the latest information from the PDF version of the catalog, which is available on the web.

General	For applications that do not require the particular reliability such as the general equipment
Info- tainment	Infotainment for Automotive The product for entertainment equipment like car navigations, car audios, and body control equipment like wipers, power windows.
Power-train	Powertrain/Safety for Automotive Product used for applications (running, turning, stopping and safety devices) which particularly concern human life, such as in devices for automobiles.
Medical Device	Medical-grade products for Implanted Medical Devices These products are intended for use in implanted medical devices such as cardiac pacemakers, cochlear implants, insulin pumps and gastric electrostimulators. They are suitable for use in non-critical circuits. *1 *1 Non-critical circuits This term refers to circuits in implanted medical devices that are not directly linked to life support, i.e. circuits that will not directly endanger the life of the patient should the functionality of the device be reduced or halted by failure of the circuit.
AEC- Q200	AEC-Q200 compliant product
Safety standard	Safety Standard Certified Product Products that acquired safety standard certification IEC60384-14 and products based on the Electrical Appliance and Material Safety Law of Japan.
Japanese Safety Law	Based on the Electrical Appliance and Material Safety Law of Japan Products that are based on the electrical appliance and material safety law of Japan.
High Q	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	Low inductance This capacitor is designed so that the parasitic inductance component (ESL) that the capacitor has on the high frequency side becomes lower.
Deflecting crack	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.
Soldering crack	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."
Anti- noise	Product suitable for acoustic noise reduction and low distortion This product suppresses acoustic noise, which occurs when a ceramic capacitor is used, by devising the materials and configuration.
Effective Cap	No DC bias characteristics Polymer capacitor is no capacitance change with DC bias due to aluminum oxidized film for dielectric.
EMI Filter	Low-inductance product suitable for noise suppression. This product has extremely low ESL and is suitable for suppression of noise, including high frequencies. This product can also be used as a low-ESL, high-performance bypass capacitor.
Bonding	Product for bonding Since gold is used for the external electrodes, the capacitor can be mounted by die bonding/wire bonding.

Derating 1

Murata's General MLCC products are desighed for use in devices with a typical lifetime around 10 years.

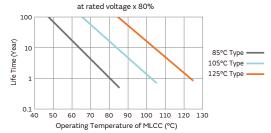
Murata's general MLCC products are desighed so that the useful lifetime can be extended longer than 10 years under the following conditions:

"80% of the rated voltage or less, Maximum operating temperature -20 degree C or less"

The useful lifetime is the time when cumulative fallure rate becomes 1%.

 Please note that the useful lifetime data is for reference only and not guaranteed.

D1 Derating



Derating 2

When the product temperature exceeds 105°C, please use this product within the voltage and temperature derated conditions in the figure below.

700
Rated Voltage 630V

600

989
990
100
Rated Voltage 450V

0 25 50 75 100 125 150

Product Temperature (°C)

Derating 2

**D2** 

D3
Derating

Derating 3

Please apply the derating curve according to the operating temperature.

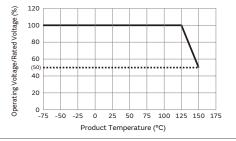
Please refer to detailed specifications sheet for details.

Derating 4

When the product temperature exceeds  $125^{\circ}$ C, please use this product within the voltage and temperature derated conditions in the figure below.

D4

Derating
4

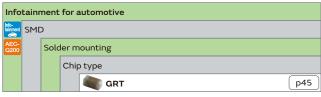


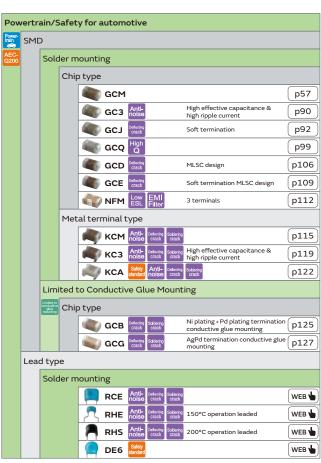
D5
Derating

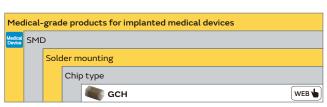
Please apply the rated voltage derating over 150 °C.
Please refer to detailed specifications sheet for details.

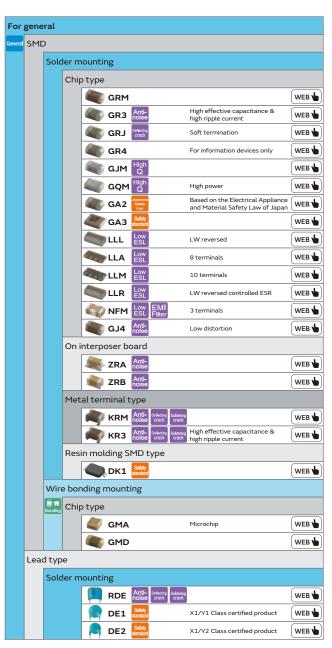
Derating 5

## Selection Guide for Ceramic Capacitors



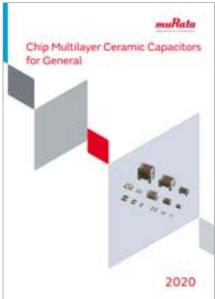






# Catalog Information

Catalog relates to a multilayer ceramic capacitor is below.

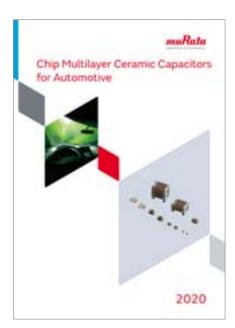


**Chip Multilayer Ceramic Capacitors** 



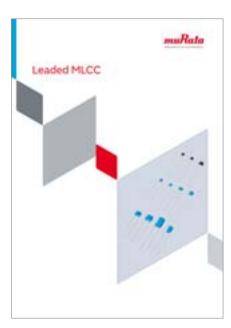
Lead Type Disc Ceramic Capacitors (Safety Standard Certified) Resin Molding SMD Type Ceramic Capacitors (Safety Standard Certified)

Cat No. C85E-7



**Chip Multilayer Ceramic Capacitors** for Automotive

Cat No. C03E-11



Leaded MLCC

Cat No. C49E-25

#### Part Numbering

#### Chip Multilayer Ceramic Capacitors for Automotive



(Part Number)

GC M 18 8 R7 1H 102 K A37 D

#### 1 Product ID 2 Series

Product ID	Code	Series
	3	High Effective Capacitance & High Ripple Current Chip Multilayer Ceramic Capacitors for Automotive
	В	Ni Plating + Pd Plating termination Conductive Glue Mounting Chip Multilayer Ceramic Capacitors for Automotive
	D	MLSC Design Chip Multilayer Ceramic Capacitors for Automotive
GC	E	Soft Termination MLSC Design Chip Multilayer Ceramic Capacitors for Automotive
GC	G	AgPd Termination Conductive Glue Mounting Chip Multilayer Ceramic Capacitors for Automotive
	J	Soft Termination Chip Multilayer Ceramic Capacitors for Automotive
	М	Chip Multilayer Ceramic Capacitors for Automotive
	Q	High Q Chip Multilayer Ceramic Capacitors for Automotive
GR	Т	AEC-Q200 Compliant Chip Multilayer Ceramic Capacitors for Infotainment
	3	High Effective Capacitance & High Allowable Ripple Current Metal Terminal Type Multilayer Ceramic Capacitors for Automotive
KC	Α	Safety Standard Certified Metal Terminal Type Multilayer Ceramic Capacitors for Automotive
	М	Metal Terminal Type Multilayer Ceramic Capacitors for Automotive

#### 3Chip Dimension (L x W)

Code	Dimension (L x W)	EIA
03	0.6 x 0.3mm	0201
15	1.0 x 0.5mm	0402
18	1.6 x 0.8mm	0603
21	2.0 x 1.25mm	0805
31	3.2 x 1.6mm	1206
32	3.2 x 2.5mm	1210
43	4.5 x 3.2mm	1812
55	5.7 x 5.0mm	2220

#### **4** Height Dimension (T) (Except $KC\square$ )

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

#### **4** Height Dimension (T) (**KC** $\square$ Only)

Code	Dimension (T)
L	2.8mm
R	3.6mm
Q	3.7mm
Т	4.8mm
V	6.2mm
W	6.4mm

Continued on the following page.  ${\cal J}$ 

(Part Number)



#### Continued from the preceding page. $\searrow$

#### **⑤**Temperature Characteristics

Temperature Characteristic Codes		Temperature Characteristics		Operating  Temperature	Capacitance Change Each Temperature (%)												
Code	Public	:	Reference	ence Temperature	Capacitance Change or Temperature	Range	–55°C		*3		-10°C						
Code	STD Co	de	Temperature	Range	Coefficient		Max.	Min.	Max.	Min.	Max.	Min.					
oc	CHA	*1	20°C	20 to 150°C	0±60ppm/°C	–55 to 150°C	0.82	-0.45	0.49	-0.27	0.33	-0.18					
2C	СН	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					
3C	Cl	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					
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					
5C	COG	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	*1	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					
7U	U2J	EIA	25°C	25 to 125°C *2	-750±120ppm/°C	-55 to 125°C	8.78	5.04	6.04	3.47	3.84	2.21					
		71.54		-55 to -40°C	-4700+1000/-2500ppm/°C		-	-	-	-	-	-					
05	E ZLM *1		2000	-40 to 20°C	-5350±750ppm/°C	FF 1 12500	-	-	-	-	-	-					
9E		ZLM   ^1	ZLM	^1	20°C	20 to 85°C	-4700±500ppm/°C	–55 to 125°C	-	-	-	-	-	-			
											85 to 125°C	-4700+2000/-1000ppm/°C	-	-	-	-	-
C7	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	-	-	-	-	-	-					
D7	X7T	EIA	25°C	-55 to 125°C	+22%, -33%	−55 to 125°C	-	-	-	-	-	-					
L8	X8L	*1	25°C	-55 to 150°C	+15%, -40%	-55 to 150°C	-	-	-	-	-	-					
M8	X8M	*1	25°C	-55 to 150°C	+15%, –50%	-55 to 150°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	-	-	-	-	-	-					
R9	X8R	EIA	25°C	-55 to 150°C	±15%	–55 to 150°C	ı	-	1	-	-	-					

<sup>\*1</sup> Murata Temperature Characteristic Code.

#### **6**Rated Voltage

Co	ode		
Standard Product	Voltage Derated Product	Rated Voltage	
OE	-	DC2.5V	
0G	-	DC4V	
٥٦	EC	DC6.3V	
1A	ED	DC10V	
1C	EE	DC16V	
1E	EF	DC25V	
YA	EG	DC35V	
1H	EH	DC50V	
1J	-	DC63V	
1K	-	DC80V	
2A	EL	DC100V	
2E	-	DC250V	
2W	LP	DC450V	
2J	2J LQ DC630		
ЗА	-	DC1kV	
MF	-	X1/Y2: AC250V (Safety Standard Certified Type MF)	

#### 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

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 letter, other than " $\mathbf{R}$ " is included, this indicates the specific part number is a non-standard part.

Ex.)	Code	Capacitance
	R50	0.50pF
	1R0	1.0pF
	100	10pF
	103	10000pF

<sup>\*2</sup> Rated Voltage 100Vdc max: 25 to 85°C

<sup>\*3 –25°</sup>C (Reference Temperature 20°C) / –30°C (Reference Temperature 25°C)

(Part Number)

GC M 18 8 R7 1H 102 K A37 D

#### Continued from the preceding page. $\searrow$

8 Capacitance Tolerance

Code	Capacitance Tolerance
В	±0.1pF
С	±0.25pF
D	±0.5pF
F	±1%
G	±2%
J	±5%
K	±10%
М	±20%
R	Depends on individual standards.
W	±0.05pF

Individual Specification Code Expressed by three figures.

#### Package

Code	Package
L	ø180mm Embossed Taping
D/W	ø180mm Paper Taping
K	ø330mm Embossed Taping
J	ø330mm Paper Taping

Please contact us if you find any part number not provided in this table.

#### 3 Terminal Low ESL Multilayer Ceramic Capacitors

WEB 🖢

(Part Number)

NF M 3D CC 102 R 1H 3 L 9 6 6 6 9 8 9

1 Product ID 2 Series

Product ID	Series
NFM	3 Terminal Low ESL Type

#### 3Dimensions (LxW)

Code	Dimensions (LxW)	EIA
18	1.6x0.8mm	0603
21	2.0x1.25mm	0805
31	3.2x1.6mm	1206

#### 4 Features

Code	Fe	atures				
нс	Powertrain/Safety for Automotive	For Signal Lines / For Large Current				
НК	Tor Addomotive	For Very Large Current				

#### **5**Capacitance

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

#### **6**Characteristics

Code	Capacitance Temperature Characteristics
С	±22%
R	±15%, +15/-18%

#### Rated Voltage

Code	Rated Voltage
01	6.3V
1A	10V
1C	16V
1H	50V
2A	100V

#### 8 Electrode

Code	Electrode
3	Sn Plating

#### Packaging

Code	Packaging
L	Embossed Taping (ø180mm Reel)
D	Paper Taping (ø180mm Reel)

Please contact us if you find any part number not provided in this table.

9

#### How to read the Capacitance Table

L×W (mm)	C	).6×0.	3	1	.0×0			
T max. (mm)	0.33 0							The values can be narrowed down in the order of size,
Rated Voltage (Vdc)	100	50	25	100	50			rated voltage, and temperature characteristics.
Cap. / TC Code	COG	COG	COG	COG	CO			
0.10pF	p46	p47	p48					
0.11pF			p48		p50			
0.12pF		! !			p50		-	Refers to the page of the part number list.  Check the part number list for the applicable product number.
0.13pF			p48		p50			encontrib parenamico ase for the appareaste produce namicon
0.15pF		1	p48		p50			

#### Temperature Characteristics Table

The Table is colored by temperature characteristic codes. Refer to the following Table for the meaning of each code.

Temperature Characteristic C			Temperature C	Characteristics	Operating	Capacitance Change Each Temperature (%)								
Public		Reference	Temperature	Capacitance Change	Temperature Range	-5	5°C	*	3	-10°C				
STD Code		Temperature	Range	or Temperature Coefficient		Max.	Min.	Max.	Min.	Max.	Min.			
CHA	*1	20°C	20 to 150°C	0±60ppm/°C	–55 to 150°C	0.82	-0.45	0.49	-0.27	0.33	-0.18			
СН	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			
Cl	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			
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			
COG	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			
X8G	*1	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			
U2J	EIA	25°C	25 to 125°C *2	-750±120ppm/°C	-55 to 125°C	8.78	5.04	6.04	3.47	3.84	2.21			
			−55 to −40°C	-4700+1000/-2500ppm/°C		-	-	-	-	-	-			
71.54	*1	2000	-40 to 20°C	-5350±750ppm/°C	FF : 12F00	-	-	-	-	-	-			
ZLM	^1	20°C	20 to 85°C	-4700±500ppm/°C	–55 to 125°C	-	-	-	-	-	-			
			85 to 125°C	-4700+2000/-1000ppm/°C		-	-	-	-	-	-			
X7S	EIA	25°C	−55 to 125°C	±22%	–55 to 125°C	-	-	-	-	-	-			
X6S	EIA	25°C	-55 to 105°C	±22%	-55 to 105°C	-	-	-	-	-	-			
X7T	EIA	25°C	−55 to 125°C	+22%, -33%	-55 to 125°C	-	-	-	-	-	-			
X8L	*1	25°C	-55 to 150°C	+15%, -40%	-55 to 150°C	-	-	-	-	-	-			
X8M	*1	25°C	−55 to 150°C	+15%, -50%	-55 to 150°C	-	-	-	-	-	-			
X5R	EIA	25°C	-55 to 85°C	±15%	−55 to 85°C	-	-	-	-	-	-			
X7R	EIA	25°C	−55 to 125°C	±15%	–55 to 125°C	-	-	-	-	-	-			
X8R	EIA	25°C	−55 to 150°C	±15%	-55 to 150°C	-	-	-	-	-	-			

<sup>\*1</sup> Murata Temperature Characteristic Code.

<sup>\*2</sup> Rated Voltage 100Vdc max: 25 to 85°C

<sup>\*3 –25°</sup>C (Reference Temperature 20°C) / –30°C (Reference Temperature 25°C)

#### **GRT Series Temperature Compensating Type**

p00 ← Part Number List EIA: COG

L×W (mm)	C	).6×0.	3	1	.0×0.	5	1	6×0.	8	2.	0×1.2	25		3	3.2×1.	6	
T max. (mm)		0.33			0.55			0.9		0.6	0.7	1.35	0.95		1	.8	
Rated Voltage (Vdc)	100	50	25	100	50	25	100	50	25	25	100	50	100	100	50	25	16
Cap. / TC Code	COG	COG	COG	COG	COG	COG	COG	COG	COG	COG	COG	COG	COG	COG	COG	COG	COG
0.10pF	p46	p47	p48														
0.11pF			p48		p50												
0.12pF	1		p48		p50												
0.13pF			p48		p50												
0.15pF			р48		p50											ĺ	
0.16pF			p48		p50												
0.18pF			p48		p50												
0.20pF	p46	p47	p48	p50	p50												
0.22pF		P	p48	Poo	p50												
0.24pF	1		p48		p50												
0.27pF	-		p48		p50												
0.30pF		p47	p48	p50	p50												
0.33pF		p47		pso	_												
	1		p48		p50												
0.36pF			p48		p50												
0.39pF			p48		p50												
0.43pF			p48		p50												
0.47pF	-	p47	p48		p50												
0.51pF			p48		p50												
0.56pF		p47	p48		p50												
0.62pF			p48		p50											İ	
0.68pF		p47	p48		p50												
0.75pF		p47	p48		p50												
0.82pF		p47	p48		p50											ĺ	
0.91pF		p47	p48		p50												
1.0pF	p46	p47	p48	p50	p50												
1.1pF		p47	p48	p50	p50												
1.2pF	p46	p47	p48	p50	p50												
1.3pF	p46	p47	p48	p50	p50												
1.5pF	p46	p47	p48	p50	p50												
1.6pF	p46	p47	p48	p50	p50												
1.8pF	p46	p47	p48	p50	p50												
2.0pF	p46	p47	p48	p50	p50												
2.2pF	p46	p47	p48	p50	p50												
2.4pF	p46	p47	p48	p50	p50												
2.7pF	p46	p47	p48	p50	p50												
3.0pF	p46	p47	p48	p50	p50												
3.3pF	p46	p47	p48	p50	p50												
3.6pF	p46	p47	p48	p50	p50												
3.9pF		p47	p48	p50	p50												
4.0pF		p47	p48	p50	p50												
4.3pF	p46	p47	p48	p50	p50												
4.7pF		p47	p48	p50	p50												
5.0pF		p47	p48	p50	p50												
5.1pF		p47	p48	p50	p50												
5.6pF		p47	p48	p50	p50												
6.0pF		p47	p48	p50	p50												
6.2pF		p47	p48	p50	p50												
6.8pF		p47	p48	р50 р50	p50												
7.0pF					р50 р50												
		p47	p48	p50													
7.5pF		p47	p48	p50	p50											1	
8.0pF	-	p47	p48	p50	p50												
8.2pF		p47	p48	p50	p50												
9.0pF	_	p47	p48	p50	p50												
9.1pF	100	p47	p48	p50	p50												
10pF		p47 wing i	p48	p50	p50	p52											<u> </u>

#### (→ GRT Series Temperature Compensating Type)

p00 ← Part Number List EIA: COG

L×W (mm)		).6×0.	3		.0×0.	5	1	6×0.	Ω	2	.0×1.2	)5	3.2×1.6					
` '			3	1		5	1		8 				0.95 1.8					
T max. (mm)	100	0.33	25	100	0.55	25	100	0.9	25	0.6	0.7	50		100	50		1.0	
Rated Voltage (Vdc)		50 C0G	25 C0G	100 C0G	50	25 C0G	100	50 C0G	25	25 C0G	100		100			25 C0G	16	
Cap. / TC Code		p47	p49	COG	p51	CUG	COG	COG	CUG	COG	CUG	CUG	CUG	CUG	CUG	CUG	CUG	
11pF	p46	-	-	p50		nF2												
12pF	p46	p47	p49	рэо	p51 p51	p52												
13pF 15pF	p46 p46	p47 p47	p49 p49	p50	p51	p52												
15pr	p46	p47	p49	рэо	p51	psz												
	p46	p47	p49	p50	p51	p52												
18pF	_	-	p49	pso	p51	psz												
20pF	p46 p46	p47 p47	p49	p50	p51	p52												
22pF 24pF	p46	p47	p49	рзо	p51	psz												
27pF	p46	p47	p49	p50	p51	p52												
30pF	p46	p47	p49	рэо	p51	psz												
33pF	p46	p47	p49	p50	p51	p52												
36pF	p46	p47	p49	рэо	p51	PSZ												
39pF	p46	p47	p49	p50	p51	p52												
43pF	p46	p47	p49	pso	p51	P32												
47pF	p46	p47	p49	p50	p51	p52												
51pF	p46	p47	p49	P30	p51	PSZ												
56pF	p46	p47	p49	p50	p51	p52												
62pF	p46	p47	p49	рэо	p51	PSE												
68pF	p46	p47	p49	p50	p51	p52												
75pF	p46	p48	p49	рэо	p51	psz												
82pF	p46	p48	p49	p50	p51	p52												
91pF	p46	p48	p49	рэо	p51	poz												
100pF	p46	p48	p49	p50	p51	p52												
110pF	рто	p48	p49	рэо	p51	PSZ												
120pF		p48	РТЭ		p51	p52	p52											
130pF		рчо			p51	PSZ	psz											
150pF		p48	p49		p51	p52	p52											
160pF		PTO	РТЭ		p51	PSE	PSE											
180pF		p48	p49		p51	p52	p52											
200pF		P .	P .		p51	P	POL											
220pF		p48	p49		p51	p52	p52											
240pF					p51													
270pF			p49		p51	p52	p52											
300pF					p51									i				
330pF			p49		p51	p52	p52											
360pF					p52													
390pF			p49		p52	p52	p52											
430pF					p52													
470pF			p49		p52	p52	p52											
510pF					p52													
560pF			p49		p52	p52	p52											
620pF					p52													
680pF			p49		p52	p52	p52											
750pF					p52													
820pF			p49		p52	p52	p52											
910pF			p49		p52													
1000pF			p50		p52	p52	p52											
1200pF							p52	p52	p52									
1500pF							p52	p52	p52									
1800pF								p52		p53	p53							
2200pF								p52		p53	p53							
2700pF								p52			p53							
3300pF								p52			p53							
3900pF								p52					p53					
		-			-	-	-			-	-				-	-		

#### (→ GRT Series Temperature Compensating Type)

p00 ← Part Number List EIA: COG

L×W (mm)	0.6×0.3 1.0×0.5				1	6×0.	8	2.	0×1.2	25	3.2×1.6						
T max. (mm)		0.33			0.55		0.9			0.6	0.6 0.7 1.35			0.95 1.8			
Rated Voltage (Vdc)		50	25	100 50 25			100	50	25	25	100	50	100		50	25	16
Cap. / TC Code																	
4300pF								p52									
4700pF								p52	p52				p53				
5100pF								p52									
5600pF								p52	p52				p53				
6800pF								p52	p52				p53				
8200pF								p52	p52				p53				
10000pF								p52	p52				p53				
18000pF												p53	p53				
22000pF												p53	p53				
56000pF															p53		
68000pF															p53		
82000pF															p53		
0.10µF														p53	p53	p53	
0.12µF																p53	p53

#### **GRT Series High Dielectric Constant Type**

L×W (mm)											С	).6×0.	3											1	.0×0.	5
T max. (mm)								0.3	33								0.	35			0.39				0.22	
Rated Voltage (Vdc)	35		25			16			1	0			6.	.3		4	6.3	4	10	6	.3	4	2.5	6	.3	4
Cap. / TC Code	X5R	X7R	X6S	X5R	X7S	X6S	X5R	X7R	X7S	X6S	X5R	X7R	X7S	X6S	X5R	X6S	X5R	X5R	X6S	Х7Т	X6S	Х7Т	X7T	X6S	X5R	X6S
100pF				p54																						
150pF		p54	p54	p54																						
220pF				p54																						
270pF																										
330pF				p54																						
470pF		p54	p54	p54																						
680pF				p54				1																		
820pF		E.4	p54	E 4				!																		
1000pF 1500pF		p54	p54	p54	:			i			p54															
2200pF											p54	p54		p54												
2700pF											P24	PJ4		P34												
3300pF											p54	p54		p54												
4700pF				p54							p54	p54		p54												
5600pF																										
6800pF				p54							p54	p54		p54												
10000pF				p54			p54	p54			p54	p54		p54	p54											
15000pF							p54				p54			p54	p54											
22000pF							p54				p54			p54	p54											
33000pF							p54				p54			p54	p54											
39000pF																										
47000pF							p54				p54			p54	p54											
56000pF								i																		
68000pF							p54				p54			p54	p54 p54	p54										
82000pF 0.10μF	p5/		p54	p54	p54	p54	p54	i	p54	p54	p54		p54	p54	p54 p54	p54										
0.15µF	ps4		p34	h24	h24	ha4	p34		h24	p54	p34		h24	h24	h24	ps4										
0.22µF								:			p54			p54	p54	p54								p54	p54	p54
0.33µF															p54	p.										
0.47µF															p54											
0.68µF																										
1.0µF																	p54	p54	p54	p54	p54	p54	p54			
1.5µF																										
2.2µF																										
3.3µF																										
4.7µF																										
6.8µF																										
10µF																										
15µF																										
22μF 33μF																										
33μF 47μF																										
47μF 100μF																										
Ιουμε		1	1					!			1								1			1	1			

#### (→ GRT Series High Dielectric Constant Type)

p00 ← Part Number List EIA: X6S X7S X5R X7R X7T

L×W (mm)													1.0	×0.5												
T max. (mm)	0.	33									0.55											0	.6			0.65
Rated Voltage (Vdc)	10	6.3	50	3	5		25			16			10			6.3		4	4	35	25	16	10	6.3	4	10
Cap. / TC Code	X5R	X5R	X7R	X6S	X5R	X7R	X6S	X5R	X7R	X6S	X5R	X7R	X6S	X5R	X7R	X6S	X5R	X7R	X6S	X5R	X6S	X6S	X7S	X5R	X5R	X5R
100pF								1																		
150pF																										
220pF			p54					į																		
270pF			p54																							
330pF			p54																							
470pF			p54																							
680pF			p54																							
820pF			p54																							
1000pF			p54																							
1500pF			p54																							
2200pF			p54																							
2700pF			p54																							
3300pF			p54																							
4700pF			p54																							
5600pF						p55																				
6800pF			p55																							
10000pF			p55			p55			p55																	
15000pF			p55																							
22000pF			p55			p55			p55						p55											
33000pF			p55			p55			p55																	
39000pF			p55																							
47000pF			p55			p55			p55																	
56000pF 68000pF			p55 p55					:	p55																	
82000pF			p55						pss																	
0.10µF			p55			p55		!	p55	i																
0.15µF			Рээ			рээ		!	рээ																	
0.22µF				p55	p55		p55	p55	p55	i	p55	p55		p55	i	p55	p55	İ								
0.33µF				Poo	poo		РОО	рос	poo		POO	poo		p55		p55	p55									
0.47µF					p55			p55		p55	p55	p55		p55		p55	p55									
0.68µF								-						p55		p55	p55									
1.0µF	p54	p54						p55			p55		p55	p55	p55	p55	p55	p55		p55	p55	p55	p55			
1.5µF																										
2.2µF		p54												p55	Ì	p55	p55		p55							
3.3µF																										
4.7µF																								p55	p55	p55
6.8µF																										
10µF																										
15µF																										
22µF																										
33µF																										
47µF																										
100µF																1										

#### (→ GRT Series High Dielectric Constant Type)

L×W (mm)				1	.0×0.	5											1	.6×0.	8							
T max. (mm)	0.6	65				0.7								0.9							0.95				1.0	
Rated Voltage (Vdc)		4	25	1			.0	6.3	2.5	100		3		25	16	6.3			25	1		10	2.5	50	3!	
Cap. / TC Code	X6S	X6S	X5R	X6S	X5R	X7S	X6S	X7S	X6S	X7R	X5R	X6S	X5R	X7R	X7R	X5R	X6S	X5R	X5R	X6S	X5R	X5R	X5R	X5R	X6S	X5R
100pF																										
150pF																										
220pF																										
270pF																										
330pF																										
470pF																										
680pF																										
820pF																										
1000pF																										
1500pF 2200pF																										
2700pF																										
3300pF										p55																
4700pF										haa																
5600pF																										
6800pF																										
10000pF										p55																
15000pF																										
22000pF																										
33000pF																										
39000pF																										
47000pF																										
56000pF																										
68000pF																										
82000pF																										
0.10µF																										
0.15µF														p55												
0.22µF														p55												
0.33µF															p55											
0.47µF														p55	p55											
0.68µF													i			1										
1.0µF											p55	p55		p55	p55		p55									
1.5µF							5.5																			
2.2µF			p55	p55	p55	p55	p55	p55					p55											p55	p55	
3.3μF 4.7μF	n5E	n55															p55		p55	n S.E.	n5E					p55
4.7μF 6.8μF	poo	pos															hoo		poo	poo	poo					pos
10μF									p55							n55	p55	p55			p55	n55				
15µF									PSS							PSS	PSS	ودم			Paa	POO				
22µF																							p55			
33µF																										
47µF																										
100µF																										
			!																							

#### (→ GRT Series High Dielectric Constant Type)

L×W (mm)						1.6	×0.8												2.0×	1.25					
T max. (mm)						1	.0							0.95			1.35					1.	.4		
Rated Voltage (Vdc)		25		1	.6		10			6.3		4	16	1	.0	100	50	16	50	35	2	5	1	6	10
Cap. / TC Code	X7S	X6S	X5R	X7S	X6S	X7T	X6S	X5R	X7T	X6S	X5R	X6S	X5R	X6S	X5R	X7R	X7R	X7R	X5R	X6S	X7R	X6S	X7R	X6S	X7R X5R
100pF																									
150pF																									
220pF																									
270pF																									
330pF																									
470pF																									
680pF																									
820pF																									
1000pF																									
1500pF																									
2200pF																									
2700pF																									
3300pF																									
4700pF																									
5600pF																									
6800pF																									
10000pF																!									
15000pF																									
22000pF																									
33000pF																									
39000pF																									
47000pF																p56									
56000pF																									
68000pF																									
82000pF																!									
0.10μF 0.15μF																									
0.15μF 0.22μF																									
0.22μF																									
0.47μF																	p56								
0.68μF																	p00								
1.0µF																	p56								
1.5µF																									
2.2µF	p55	p56		p56														p56			p56				
3.3µF						i							p56	İ	p56	İ						p56		p56	p56
4.7µF		p56												p56					p56	p56			p56		p56
6.8µF																									
10µF			p56		p56	p56	p56		p56	p56															
15µF																									
22µF								p56		p56	p56	p56													
33µF																									
47µF																									
100µF																									

#### (→ GRT Series High Dielectric Constant Type)

L×W (mm)						2.	0×1.2	25											3	3.2×1.	6					
T max. (mm)	1.4						1.4	45						0.95			1.25						1.8			
Rated Voltage (Vdc)	6.3	50	2	5	1	6	1	0	6	.3	4	1	2.5	35	50	2	5	1	6		50		3	5	2	5
Cap. / TC Code	X5R	X7S	X7S	X5R	X7S	X5R	X7T	X6S	X7T	X5R	X6S	X5R	X6S	X5R	X6S	X6S	X5R	X6S	X5R	X7R	X6S	X5R	X6S	X5R	X6S	X5R
100pF																										
150pF																										
220pF																										
270pF																										
330pF																										
470pF																										
680pF																										
820pF																										
1000pF																										
1500pF																										
2200pF																										
2700pF																										
3300pF																										
4700pF																į										
5600pF																1										
6800pF																										
10000pF																										
15000pF																										
22000pF																										
33000pF																										
39000pF																										
47000pF 56000pF																1										
68000pF																										
82000pF																										
0.10μF																										
0.15μF																1										
0.22μF																										
0.33µF																										
0.47μF																-										
0.47μl 0.68μF																-										
1.0µF															p56											
1.5µF																p56	p56	p56	p56		p56	p56				
2.2µF																				p56						
3.3µF	p56																									p56
4.7µF			p56																							
6.8µF																		p56	p56							
10µF			p56		p56									p56		p56						p56	p56	p56	p56	
15µF																										
22µF				p56		p56	p56	p56	p56							-										
33µF																										
47µF										p56	p56	p56	p56													
100µF																1										

#### (→ GRT Series High Dielectric Constant Type)

p00 ← Part Number	List		EIA: X6S	X7S	X5R X7	R X	7T				
L×W (mm)		3.2	×1.6				3.2	×2.5			
T max. (mm)		1	.8	1.5	2.2				2	.7	
Rated Voltage (Vdc)	16	10	6.3	25	50	6.3	50	16	10		6.3

L×W (mm)		3.2	×1.6							3.2	٤.5					
T max. (mm)		1.	.8		1.5		2.2					2	.7			
Rated Voltage (Vdc)	16	10	6.	.3	25	5	0	6.3	5	0	16	10		6.3		4
Cap. / TC Code	X6S	X5R	X6S	X5R	X5R	X6S	X5R	X5R	X7R	X6S	X6S	X6S	X7R	X7S	X5R	X7S
100pF																
150pF																
220pF																
270pF																
330pF																
470pF																
680pF																
820pF																
1000pF																
1500pF																
2200pF																
2700pF																
3300pF																
4700pF																
5600pF																
6800pF																
10000pF																
15000pF																
22000pF																
33000pF																
39000pF																
47000pF																
56000pF																
68000pF																
82000pF																
0.10µF																
0.15µF																
0.22μF																
0.33μF																
0.47µF																
0.68µF																
1.0µF																
1.5µF																
2.2µF								i								
3.3µF						p56	p56									
4.7µF									p56	p56						
6.8µF					p56											
10µF																
15µF				p56												
22µF	p56															
33µF								p56								
47µF		p56	p56								p56	p56	p56			
100μF														p56	p56	p56

#### $\textbf{GCM Series Temperature Compensating Type} \hspace{0.2cm} (3.2 \times 1.6 \text{mm: p.24 to 25}, 3.2 \times 2.5 - 5.7 \times 5.0 \text{mm: p.26})$

p00 ← Part Number	List		EIA	C00	G U	2J	۲	lurata	a Ten	npera	ature	Char	acter	istic:	X80	ZI	LM												
L×W (mm)	0.6	×0.3	1.0	×0.5				1.6>	8.0											2	.0×1.2	25							
T max. (mm)	0	.33	0.	.55				0.	9					0.7				0.95				1.0			1.4			1.45	
Rated Voltage (Vdc)				50		100		80	63		50		100	80	50		00	80		0	630		50	80		0	630		50
Cap. / TC Code			_	_	C0G	U2J	X8G	COG	COG	COG	U2J	X8G	COG	COG	X8G	X8G	ZLM	COG	COG	X8G	COG	C0G	U2J	COG	C0G	X8G	COG	COG	U2J
0.10pF		_	-	p64																									
0.11pF		-	+																										
0.12pF	_	_	-																										
0.13pF	_	-	+	-																									
0.15pF		-	+	-																									
0.16pF	p58		+	-																									
0.18pF	_		+	-																									
0.20pF	_	_	-	-																									
0.22pF 0.24pF			+																										
0.24pr		_	boı																										
0.30pF	_	_	p61	p64																									
0.33pF	p58	_	_	po4																									
0.35pr	р58 р58	_	_																		!								
0.39pF	р58	+	+	-																									
0.40pF	р58	-	-	-																									
0.43pF			+	-																									
0.47pF	p58		+	-	p67																								
0.50pF	p58	-	+	_																									
0.51pF	p58	-	-	_	p67																								
0.56pF	p58	_	+	-	p67																								
0.60pF	р58	-	+	_																									
0.62pF	р58		+	-	р67																								
0.68pF	-		+	-	р67																								
0.70pF	_	p59	p61	p64																									
0.75pF	p58	_	p61	p64	p67																								
0.80pF	p58	p60	p61	p64	p67																								
0.82pF	p58	p60	p61		p67																								
0.90pF	p58	p60	p61	p64	p67																								
0.91pF	p58	p60	p61		p67																								
1.0pF	p58	p60	p61	p64	p68																								
1.1pF			-	1.																									
1.2pF	p58	_		p64	p68																								
1.3pF	p58	p60	_	-																									
1.4pF			p61																										
1.5pF		_	-																										
1.6pF	p58	p60	_		p68																								
1.7pF		1	p61	-																									
1.8pF	p58	p60	_	-																	!								
1.9pF	E0	co	p61	-																	1								
2.0pF 2.1pF	ръв	рьо	p61 p61		_																!								
2.1pr 2.2pF	nE 0	p60		_																									
2.3pF	рэв	poo	p61	_																									
2.3pr 2.4pF	n5.8	p60	_	_																									
2.4pr	P30	poo	p61	_	p68																								
2.5pF 2.6pF			p61	-	p68																								
2.7pF	p58	p60	-	-	p68																								
2.8pF	p30	100	p61	-																									
2.9pF			p61	-	p68																								
3.0pF	p58	p60		<u> </u>	p68																								
3.1pF	1		p61	_	p68																								
3.2pF			p61	-																									
3.3pF	p58	p60	-	-	_																								
3.4pF	-		p62	_																									
		1				:				:	:	:	:			:	:	:	:	:	:	:	:	:	:	:	: :		

#### $\textbf{(} \rightarrow \textbf{GCM Series Temperature Compensating Type)} \hspace{0.2cm} \textbf{(} 3.2 \times 1.6 \text{mm: p.24 to 25, } 3.2 \times 2.5 - 5.7 \times 5.0 \text{mm: p.26)} \\$

p00 ← Part Number	List		EIA:	CO	G U2	2J	Μ	lurata	a Ten	npera	ature	Char	acter	istic:	X80	ZI	LM												
L×W (mm)	0.6	×0.3	1.0	×0.5				1.6×	0.8											2	.0×1.2	25							
T max. (mm)		33	0.	55				0.						0.7				0.95				1.0			1.4			1.45	
Rated Voltage (Vdc)		25		0		100		80	63		50		100	80	50		00	80		0	630		50	80		0	630		50
Cap. / TC Code	C0G	COG		_		U2J	X8G	COG	COG	C0G	U2J	X8G	COG	COG	X8G	X8G	ZLM	COG	C0G	X8G	COG	C0G	U2J	C0G	C0G	X8G	COG	COG	U2J
3.5pF			p62	-	p68																								
3.6pF	p58	p60	p62	p65	p68																								
3.7pF			p62	-	p68																								
3.8pF			p62	p65	p68																								
3.9pF	p58	p60	p62		p68																								
4.0pF	p58	p60	p62	-	p68																								
4.1pF			p62	-	p68																								
4.2pF			p62	p65	p68																								
4.3pF	p58	p60	p62	-	p68																								
4.4pF			p62	p65	p68																								
4.5pF			p62	p65	p68																								
4.6pF			p62	-	p68																								
4.7pF	p58	p60	p62	_	p68																								
4.8pF			p62	p65	p68																								
4.9pF			p62	p65	p68																								
5.0pF	p58	p60	p62	-	p68																								
5.1pF	p58	p60	p62	<u> </u>	p68																								
5.2pF			p62	p65	p68																								
5.3pF		į	p62	p65	p68																								
5.4pF			p62	p65	p68																								
5.5pF			p62		p68																								
5.6pF	p58	p60	p62	p65																									
5.7pF			p62	p65	p69																								
5.8pF			p62	p65	p69																								
5.9pF			p62	p65	p69																								
6.0pF	p58	p60	p62	p65	p69																								
6.1pF			p62	p65	p69																								
6.2pF	p58	p60	p62	p65	p69																								
6.3pF			p62	p65	p69																								
6.4pF			p62	p65	p69																								
6.5pF		1	p62	p65	p69																								
6.6pF			p62	p65	p69																								
6.7pF			p62	p65																									
6.8pF	p58	p60	p62	p65	p69																								
6.9pF			p62																										
7.0pF	p58	p60	p62																										
7.1pF			p62	_	p69																								
7.2pF			p62		p69																								
7.3pF			p62	p65	p69																								
7.4pF			p62	p65	p69																								
7.5pF	p58	p60																											
7.6pF			p62		p69																								
7.7pF			p62	p65	p69																								
7.8pF			p62	p65	p69																								
7.9pF			p62		p69																								
	p58	p60			p69																								
8.1pF			p62		p69																								
-	p58	p60	p62		p69																								
8.3pF			p62	p66	p69																								
8.4pF			p62	p66	p69																								
8.5pF			p62	p66	p69																								
8.6pF			p62	p66	p69																								
8.7pF			p62	p66	p69																								
8.8pF			p62	p66	p69																								
8.9pF			p62	p66	p69																								

#### $\textbf{(} \rightarrow \textbf{GCM Series Temperature Compensating Type)} \hspace{0.2cm} \textbf{(} 3.2 \times 1.6 \text{mm: p.24 to 25, } 3.2 \times 2.5 - 5.7 \times 5.0 \text{mm: p.26)} \\$

p00 ← Part Number	List		EIA:	CO	G U	2J	~	lurata	a Ten	npera	ature	Char	acter	istic:	X80	GZ	LM												
L×W (mm)	0.6	×0.3	1.0	×0.5				1.6	8.0											2	.0×1.2	5							
T max. (mm)	_	.33	_	.55				0.						0.7				0.95				1.0			1.4			1.45	
Rated Voltage (Vdc)		25		50		100		80	63		50		100	80	50		00	80		0	630		50	80		50	630		250
Cap. / TC Code						U2J	X8G	COG	C0G	COG	U2J	X8G	COG	COG	X8G	X8G	ZLM	COG	C0G	X8G	COG	C0G	U2J	COC	G COC	X8G	COG	COC	G U2J
9.0pF		p60	p62	-	p69																								
9.1pF	p58	p60	p63	<del>                                     </del>																									
9.2pF		-	p63	-	p70																								
9.3pF 9.4pF			p63 p63	p66	p70 p70																								
9.5pF			p63	-	p70																								
9.6pF			p63	-	p70																								
9.7pF			p63	p66	p70																								
9.8pF			p63	p66																									
9.9pF			p63	p66																									
10pF	p58	p60	p63	p66			p71														p75	p76							
11pF	p58	p60	p63	p66	p70		p71																						
12pF	p58	p60	p63	p66	p70		p71														p75	p76							
13pF	p58	p60	p63	p66	p70		p71																						
15pF	p58	p60	p63	p66	p70		p72														p75	p76							
16pF	p58	p60	p63	p66	p70		p72																						
18pF	p59	p60	p63	p66	p70		p72														p75	p76							
20pF	p59	p60	p63	p66	p70		p72																						
22pF		p60	p63	p66	p70		p72														p75	p76							
24pF	_	p60	p63	p66	p70		p72																						
27pF		p60	p63	-			p72														p75	p76							
30pF	p59	p60	p63	<del>-</del>			p72																						
33pF		p60	p63	<del>-</del>	_		p72														p76	p76							
36pF		p60	p63	-	_		p72																						
39pF		p60	p63	-			p72														p76	p76					-		
43pF	p59	p60	p63	<del>-</del>			p72																						
47pF	p59	p60	p63	+			p72														p76	p76							
51pF	p59 p59	p60	p63	-	_		p72														-76	-76	i						
56pF 62pF	p59	p60	p63	-	p70 p70		p72 p72														p76	p76							
68pF	p59	p60	p63	-	p70		p72														p76	n76	i						
75pF		p60	p63	-	p70		p72														pro	p, o							
82pF			p63	-			p72														p76	p76	i						
91pF	p59	p61	p63	ι.	p70		p72															<u> </u>							
100pF	p59	p61	p63	-	p70		p72														p76	p76	p77	ĺ					
110pF			p63	-	р70		p72															· · ·							
120pF			p63	_	p70		p72														p76	p76	p77						
130pF			p63	p67	p70		p72																				-		
150pF			p63	p67	p71		p72														p76	p76	p77						
160pF			p63	p67	p71		p72																	1					
180pF			p63	p67	p71		p72														p76	p76	p77						
200pF			p64	p67	p71		p72																						
220pF			p64	p67	p71		p72														p76	p76	p77						
240pF			p64	p67	p71		p72																						
270pF			p64	p67	p71		p72														p76	p76	p77						
300pF			p64	p67	p71		p72																						
330pF			p64	p67	p71		p72														p76	p76	p77						
360pF			p64	p67	p71		p72																						
390pF			p64	p67	p71		p72														p76	p76	p77						
430pF			p64	p67	p71		p72															n7-	p77	i					
470pF			p64	p67	p71		p73														p76	p77	p//						
510pF 560pF			p64	p67	p71		p73 p73														p.7.6	p77	p77						
620pF			p64 p64	p67	p71 p71		p/3														p76	PT7	977						
680pF			p64	p67	p/1		p73															p77	p77				p77	i	
боорг		1	P04	po/	b/1		p/3					1				<u> </u>	:					PTT	P1 1			1	ווק		1

#### (→ GCM Series Temperature Compensating Type) (3.2×1.6mm: p.24 to 25, 3.2×2.5 – 5.7×5.0mm: p.26)

p00 ← Part Number	List		EIA:	COC	G U	2J	Μ	lurat	a Ten	npera	ature	Char	acter	istic:	X80	Zl	_M												
L×W (mm)	0.6	×0.3	1.0	×0.5				1.6	×0.8											2.	0×1.2	25							
T max. (mm)	0.3	33	0.	55				0	.9					0.7				0.95				1.0			1.4			1.45	
Rated Voltage (Vdc)	50	25	5	0		100		80	63		50		100	80	50	10	00	80	5	0	630	250	0	80	50	0	630	25	50
Cap. / TC Code	COG	COG	COG	X8G	COG	U2J	X8G	COG	COG	COG	U2J	X8G	COG	COG	X8G	X8G	ZLM	COG	COG	X8G	COG	COG	U2J	COG	COG	X8G	COG	COG	U2J
750pF			p64	p67	p71		p73																						
820pF			p64	p67	p71		p73															p77	p77				p77		
910pF			p64	p67	p71		p73																						
1000pF			p64	p67	p71	p71	p73				p74						p75					p77	p77				p77		
1100pF						p71				p73		p74				p75	p75												
1200pF						p71				p73		p74				p75	p75					p77	p77				p77		
1300pF						p71				p73	p74	p74				p75	p75							i					
1500pF					_	p71				p73	p74	p74				p75	p75					p77	p77				p77		
1600pF						p71		p73	p73	p73	p74	p74	p74																
1800pF						p71		p73	p73	p73		p74	100									p77	p77				p77		
2000pF						p71		p73	p73	p73	p74	p74												i					
2200pF						p71		p73	p73	p73	p74	p74	p74									p77	p77				p77		
2400pF						p71		p73	p73	p73	p74	p74																	
2700pF						p71		p73	p73	p73	p74	p74	p74									p77							p78
3000pF						p71		p73	p73	p73	p74		p74		p75														
3300pF						p71		p73	p73	p73	p74		p74		p75													p77	p78
3600pF						p71		p73	p73	p73	p74		Fire		p75													Fil	
3900pF					_	p71		p73	p73	p73	p74				p75					p75								p77	p78
4300pF						p71		ρ. σ	P. 0	p74	p74			p74	p75					p75								P	p. 0
4700pF						p71				p74	p74			p75	p75					p75								p77	p78
5100pF						p71				p74	p74			pro	pro			p75		p75								Pii	Pro
5600pF						p71				p74	p74							p75		p75								p78	n78
6200pF						p71				p74	p74							p75		p75					i	p77		рго	рго
6800pF						p71				p74	p74							p75		p75					-	p77		p78	
7500pF						p71				p74	p74							p75		p75						p77		рго	
8200pF						p71				p74	p74							p75		p75						р77 р77		p78	
9100pF						p71				p74	p74							p75		p75								рго	
10000pF						p71				p74	p74							p75		p75						p77		p78	
11000pF						P/I				pr4	p/4							p75		p/5						p77		рто	
12000pF																		p75	p75										
13000pF																		_	p75										
15000pF																		p75	p75										
16000pF																		p75	pro										
18000pF																								p77	p77				
20000pF																									p77				
22000pF																									p77				
27000pF																								P//	p//				
33000pF																													
39000pF																													
43000pF																													
47000pF																													
51000pF																													
56000pF																													
62000pF																													
68000pF																													
75000pF																													
82000pF																													
91000pF																													
0.10µF																		<u> </u>											

#### $\textbf{(} \rightarrow \textbf{GCM Series Temperature Compensating Type)} \hspace{0.2cm} (0.6 \times 0.3 - 2.0 \times 1.25 \text{mm: p.20 to 23, } 3.2 \times 2.5 - 5.7 \times 5.0 \text{mm: p.26})$

p00 ← Part Number List EIA: COG U2J Murata Temperature Characteristic: X8G ZLM L×W (mm) 3.2×1.6 1.0 0.95 1.25 1.8 T max. (mm) Rated Voltage (Vdc) 80 1000 1000 630 1000 630 250 100 Cap. / TC Code | COG | X8G | COG | COG | X8G | COG | U2J | COG | U2J | COG | U2J | COG | U2J | COG | U2J | COG | U2J | COG | U2J | COG | U2J | COG | U2J | COG | U2J | COG | U2J | COG | U2J | COG | U2J | COG | U2J | COG | U2J | COG | U2J | COG | U2J | COG | U2J | COG | U2J | COG | U2J | COG | U2J | COG | U2J | COG | U2J | COG | U2J | COG | U2J | COG | U2J | COG | U2J | COG | U2J | COG | U2J | COG | U2J | COG | U2J | COG | U2J | COG | U2J | COG | U2J | COG | U2J | COG | U2J | COG | U2J | COG | U2J | COG | U2J | COG | U2J | COG | U2J | COG | U2J | COG | U2J | COG | U2J | COG | U2J | COG | U2J | COG | U2J | COG | U2J | COG | U2J | COG | U2J | COG | U2J | COG | U2J | COG | U2J | COG | U2J | COG | U2J | COG | U2J | COG | U2J | COG | U2J | COG | U2J | COG | U2J | COG | U2J | COG | U2J | COG | U2J | COG | U2J | COG | U2J | COG | U2J | COG | U2J | COG | U2J | COG | U2J | COG | U2J | COG | U2J | COG | U2J | COG | U2J | COG | U2J | COG | U2J | COG | U2J | COG | U2J | COG | U2J | COG | U2J | COG | U2J | COG | U2J | COG | U2J | COG | U2J | COG | U2J | COG | U2J | COG | U2J | COG | U2J | COG | U2J | COG | U2J | COG | U2J | COG | U2J | COG | U2J | COG | U2J | COG | U2J | COG | U2J | COG | U2J | COG | U2J | COG | U2J | COG | U2J | COG | U2J | COG | U2J | COG | U2J | COG | U2J | COG | U2J | COG | U2J | COG | U2J | COG | U2J | COG | U2J | COG | U2J | COG | U2J | COG | U2J | COG | U2J | COG | U2J | COG | U2J | COG | U2J | COG | U2J | COG | U2J | COG | U2J | COG | U2J | COG | U2J | COG | U2J | COG | U2J | COG | U2J | COG | U2J | COG | U2J | COG | U2J | COG | U2J | COG | U2J | COG | U2J | COG | U2J | COG | U2J | COG | U2J | COG | U2J | COG | U2J | COG | U2J | COG | U2J | COG | U2J | COG | U2J | COG | U2J | COG | U2J | COG | U2J | COG | U2J | COG | U2J | COG | U2J | COG | U2J | COG | U2J | COG | U2J | COG | U2J | COG | U2J | COG | U2J | COG | U2J | COG | U2J | COG | U2J | COG | U2J | COG | U2J | COG | U2J | COG | U2J | COG | U2J | COG | U2J | COG | U2J | COG | U2J | COG | U2J | COG | U2J | COG | U2J | COG | U2J | COG | U2J | COG | U 9.1pF 9.2pF 9.3pF 9.4pF 9.5pF 9.6pF 9.7pF 9.8pF 9.9pF p79 p79 p80 10pF 11pF 12pF 13pF 15pF 16pF 18pF 20pF 22pF 24pF 27pF 30pF 33pF 36pF 39pF 43pF 47pF 51pF p79 p80 p80 56pF 62pF 68pF p79 p80 p80 75pF 82pF 91pF 100pF p79 p80 p80 110pF 120pF p79 p80 p80 130pF 150pF 160pF 180pF 200pF 220pF 240pF 270pF 300pF 330pF 360pF 390pF 430pF 470pF 510pF 560pF 620pF 680pF

muRata

#### $\textbf{(} \rightarrow \textbf{GCM Series Temperature Compensating Type)} \hspace{0.2cm} (0.6 \times 0.3 - 2.0 \times 1.25 \text{mm: p.20 to 23, } 3.2 \times 2.5 - 5.7 \times 5.0 \text{mm: p.26})$

p00 ← Part Number	List		EIA:	COG	U2J		Mura	ta Ter	npera	ture (	Chara	cteris	tic:	(8G	ZLM								
L×W (mm)											3	3.2×1.	6										
T max. (mm)			0.95				1	.0					1.25							1.8			
Rated Voltage (Vdc)		00	80		0	10		63		10		63			50	50	10			30		100	
Cap. / TC Code	COG	X8G	COG	COG	X8G	COG	U2J	COG	U2J	COG	U2J	COG	U2J	COG	U2J	COG	COG	U2J	COG	U2J	COG	COG	COG
750pF																į							
820pF								p80	p80								p81	p81					
910pF																							
1000pF								p80	p80								p81	p81					
1100pF																							
1200pF								p80	p80														
1300pF																							
1500pF								p80	p80							į							
1600pF		p78																					
1800pF		p78						p80	p80														
2000pF		p78																					
2200pF		p78							p80			p80				!							
2400pF		p78																					
2700pF		p78										p80	p80										
3000pF		p78			İ														į				
3300pF		p78											p81						p81				
3600pF	p78	p78																					
3900pF		p78														1			p81	p81			
4300pF		p78			İ											į							
4700pF		p78																	p81	p81			
5100pF		p78														!			-				
5600pF		p78														1			p81				
6200pF																			-				
6800pF	p78		į												p81				p81				
7500pF																			<u> </u>				
8200pF															p81	İ			p81				
9100pF																			<u> </u>				
10000pF															p81	İ			p81				
11000pF			į		p78														-				
12000pF					p78									p81		!							
13000pF					p78																		
15000pF					p78											!					p81		
16000pF			İ		p78											į			į				
18000pF					p78																p81		
20000pF					p79																		
22000pF					p79																p81		
27000pF			p78	p78																			
33000pF			p78	p78																			
39000pF				p78																			
43000pF			i	P												p81							
47000pF																p81							
51000pF																p81							
56000pF																p81							
62000pF																PO1						p81	p81
68000pF																						p81	p81
75000pF																						p81	p81
82000pF																						p81	p81
91000pF																						p81	p81
91000pF 0.10μF																						p81	p81 p81
0.10μF					!			!								!			!			hg I	-be1

Continued on the following page.  ${ \nearrow \hspace{-7.47em} /}$ 

 $\textbf{(}\rightarrow\textbf{GCM Series Temperature Compensating Type\textbf{)}} \hspace{0.2cm} (0.6\times0.3-2.0\times1.25\text{mm}; p.20 \text{ to } 23, 3.2\times1.6\text{mm}; p.24 \text{ to } 25)$ 

p00 ← Part Number	-		EIA:		U2J			-			- 2.0× Chara		_		ZLM	,.∠ × ⊥.(
L×W (mm)				3.2	·2.5					4.5	×3.2			5.7	×5.0	
T max. (mm)	1.0	1.2	25	1.	.5	2.	.0	2.85	1	.5	2.	.0	1	.5	2.	.0
Rated Voltage (Vdc)	630	1000	630	1000	630	1000	630	630	1000	630	1000	630	1000	630	1000	630
Cap. / TC Code		U2J	U2J	U2J	U2J	U2J	U2J	COG	U2J	U2J	U2J	U2J	U2J	U2J	U2J	U2J
750pF																
820pF																
910pF																
1000pF																
1100pF																
1200pF	p81	p81														
1300pF																
1500pF	p81			p81												
1600pF																
1800pF	p81					p81										
2000pF																
2200pF	p81					p81										
2400pF																
2700pF									p82							
3000pF																
3300pF									p82							
3600pF																
3900pF											p82					
4300pF																
4700pF											p82					
5100pF																
5600pF			p81										p82			
6200pF								İ								
6800pF					p81								p82			
7500pF																
8200pF							p81								p82	
9100pF																
10000pF							p81								p82	
11000pF																
12000pF										p82						
13000pF																
15000pF												p82				
16000pF																
18000pF												p82				
20000pF								-								
22000pF								1				p82				
27000pF														p82		
33000pF								p81								p82
39000pF																p82
43000pF																
47000pF																p82
51000pF																
56000pF								-								
62000pF																
68000pF																
75000pF																
82000pF																
91000pF																
0.10μF																

#### GCM Series High Dielectric Constant Type

p00 ← Part Number List EIA: X7S X7T X7R X8R Murata Temperature Characteristic: X8L X8M 0.6×0.3 1.0×0.5 1.6×0.8 L×W (mm) 0.33 0.55 0.6 0.7 0.9 1.0 T max. (mm) 25 16 10 100 50 25 16 10 10 10 100 50 25 16 6.3 6.3 Rated Voltage (Vdc) Cap. / TC Code | X7R | X7R | X7R | X8L | X7R | X8L | X7R | X8L | X7R | X8L | X7R | X7R | X7R | X7S X7S | X8R | X7R | X8L | X8R | X7R | X8L | X8R | X7R | X8L | X7R | X7S | X7R | X7T 100pF 120pF 150pF 180pF 220pF p84 p84 270pF p84 330pF p84 390pF p84 470pF p84 560pF p84 680pF p84 820pF p84 1000pF p84 1200pF 1500pF p84 1800pF p84 2200pF p84 p84 2700pF p84 3300pF 3900pF p84 4700pF 5600pF 6800pF p84 p85 8200pF p84 p85 10000pF p84 p85 12000pF p86 15000pF p86 18000pF p85 p86 22000pF p85 p86 27000pF p85 p86 33000pF p85 p86 39000pF p85 p86 47000pF p86 56000pF p86 68000pF 82000pF p86 0.10μF  $0.12 \mu F$ 0.15µF 0.18µF p86 0.22µF 0.27µF 0.33μF 0.39µF 0.47µF 0.56µF 0.68µF  $0.82 \mu F$ 1.0µF 1.5µF 2.2µF 3.3µF 4.7µF 10µF 22µF 47µF 100µF

#### (→ GCM Series High Dielectric Constant Type)

p00 ← Part	Number	List		EIA:	X7S	X7T	X7F	X8	R	Mu	rata T	empe	rature	e Cha	racter	istic:	X8L	18X	1								
L×	«W (mm)	1.6× 0.8												2.	0×1.2	25											
		1.0			0.9	95										1	.4									1.45	
Rated Volta		4		00		0	25	16	10			50			35			25			.6		0	6.3	100	3	
Cap. /	TC Code	X7T	X8R	X7R	X8R	X7R	X7R	X7R	X8R	X7R	X8L	X8R	X7R	X8L	X7R	X7S	X8L	X8R	X7R	X8L	X7R	X7R	X7S	X7R	X7S	X8L	X7S
	100pF																										
	120pF																										
	150pF																										
	180pF																										
	220pF																										
	270pF																			İ							
	330pF																										
	390pF																										
	470pF																										
	560pF																										
	680pF 820pF																										
	1000pF																į										
	1200pF																										
	1500pF																										
	1800pF																										
	2200pF																										
	2700pF																										
	3300pF																										
	3900pF																										
	4700pF																										
	5600pF																										
	6800pF																										
	8200pF																										
1	.0000pF		p86		p87																						
1	.2000pF																										
1	.5000pF		p86		p87																						
1	.8000pF																										
2	2000pF		p86		p87																						
2	7000pF			p86						p87																	
	3000pF			p86					p87	p87		p87															
	9000pF			p86						p87																	
	7000pF								p87	p87		p87															
	6000pF								:	p87																	
	8000pF									p87		p87															
8	32000pF									p87																	
	0.10µF									p87		p87								İ							
	0.12µF										p87							p87									
	0.15μF 0.18μF										p87 p87							ро7									
	0.18µF 0.22µF										p87		p87					p87									
	0.27μF										P31		por				p87	ροτ	p87	p87							
	0.27μl 0.33μF					p87					p87						p87	p87	p87	p87							
	0.39µF																p87		p87	p87							
	0.47µF						p87	i					p87				p87		p87	p87							
	0.56µF																		p87	p88							
	0.68µF														p87				p87	p88							
	0.82µF																		р87	p88							
	1.0µF							p87					p87		p87				р87	p88					p88		
	1.5µF														p87		p87		p87		p88						
	2.2µF													p87		p87			p87		p88	p88					
	3.3µF																				p88						
	4.7µF																				p88		p88			p88	p88
	10µF	p86																				p88		p88			
	22µF																										
				1	:	Į.	1	1	: :		1	: :		!	:	:	1			1	:		:	:	: :		1
	47μF 100μF			1		1											1										

#### (→ GCM Series High Dielectric Constant Type)

p00 ← Part Number				X7S		X7F	X8								ristic:											
L×W (mm)			1.25										3	3.2×1.										3	.2×2.	5
T max. (mm)		1.					1.25	ı							1.8	1		1	1			1.9			2.2	I
Rated Voltage (Vdc)		.5		L6	100		0	2			00			0		2		16	10	6.3	1	5	25	10		10
Cap. / TC Code	X8L	X75	X8M	X75	X7R	X8L	X8R	X8L	X8R	X8L	X75	X8L	X8R	X7R	X7S	X8R	X7R	X7R	X7R	X7R	X8M	Х7Т	X7S	X8L	X75	X8L
100pF																										
120pF																										
150pF																										
180pF																į										
220pF																										
270pF																										
330pF 390pF																										
470pF																										
560pF																										
680pF																1										
820pF																!										
1000pF								İ					i			i										
1200pF																! !										
1500pF																										
1800pF																										
2200pF																i !										
2700pF																										
3300pF																										
3900pF																										
4700pF																										
5600pF																										
6800pF																										
8200pF																										
10000pF																										
12000pF																										
15000pF																į										
18000pF																										
22000pF																										
27000pF																										
33000pF																										
39000pF																										
47000pF																										
56000pF																										
68000pF																										
82000pF																										
0.10µF																										
0.12µF																										
0.15µF																										
0.18µF																										
0.22µF					p88		p88																			
0.27µF																										
0.33µF							p88																			
0.39µF						p88																				
0.47µF						p88			p88				p88													
0.56µF												p88														
0.68µF												p88				p88										
0.82µF												p88					i									
1.0µF								p88				p88				p88										
1.5µF														p88												
2.2µF										p88	p88			p88												
3.3µF																										
4.7µF	p88	p88													p88		p88	p88						p88	p88	
10μF			p88	p88														p88			p88	p88	p88			p88
22µF																			p88	p88						
47μF																										
100µF		1	1	1		1		1	:		1		1	1	1	1			1	:	1		<u> </u>			

#### (→ GCM Series High Dielectric Constant Type)

p00 ← Part Number List	EIA: X7S X7T X7R X8R	Murata Temperature Characteristic: X8L X8M
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L×W (mm)						3.2	×2.5					
T max. (mm)					2.7						2.85	
Rated Voltage (Vdc)		50		35	25	16	1	0	6.3	2	5	2.5
Cap. / TC Code	X8L	X7R	X7S	X7S	X7R	X7R	X7R	X7S	X7R	X8L	X7S	X7T
100pF												
120pF												
150pF												
180pF												
220pF												
270pF												
330pF												
390pF 470pF												
560pF												
680pF												
820pF												
1000pF												
1200pF												
1500pF												
1800pF												
2200pF												
2700pF												
3300pF												
3900pF												
4700pF												
5600pF												
6800pF												
8200pF												
10000pF												
12000pF												
15000pF												
18000pF												
22000pF												
27000pF												
33000pF												
39000pF 47000pF												
56000pF												
68000pF												
82000pF												
0.10μF												
0.12µF												
0.15µF												
0.18µF												
0.22µF												
0.27µF												
0.33µF												
0.39µF												
0.47µF												
0.56µF												
0.68µF												
0.82µF												
1.0µF												
1.5µF												
2.2µF												
3.3µF												
4.7µF		p88										
10µF	p88		p88	p88	p88							
22µF						p89	p89	00	00	p89	p89	
47µF								p89	p89			n00
100µF								<u> </u>				p89

## GC3 Series High Dielectric Constant Type

p00 ← Part Number List	EIA:	X7T
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L×W (mm)	2.0×	1.25				3.2	×1.6					3	3.2×2.	5			4.5	×3.2			5	5.7×5.0	0	
T max. (mm)	1.0	1.45	1.	.0		1.25			1.8		1	.5		2.0		1.5		2.0			2.0		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	250
Cap. / TC Code	X7T	X7T	X7T	X7T	X7T	X7T	X7T	X7T	Х7Т	X7T	X7T	X7T	X7T	Х7Т	X7T	X7T	X7T	X7T	X7T	X7T	X7T	X7T	X7T	X7T
10000pF	p91		p91		p91																			
15000pF	p91		p91					p91																
22000pF		p91				p91					p91													
33000pF				p91		p91							p91											
47000pF							p91		p91				p91											!
68000pF										p91				p91			p91							
0.10µF												p91		p91						p91				į
0.15µF															p91			p91		p91				
0.22µF																p91					p91		p91	
0.33µF																			p91		p91			
0.47µF																					p91	p91		
0.68µF																						p91		
1.0µF		İ			İ														İ		İ			p91

#### GCJ Series High Dielectric Constant Type

p00 ← Part Number	List		EIA:	X7S	X7T	X7F	X8	R	Mu	rata T	empe	erature	e Cha	racte	ristic:	X8L	18X	1								
L×W (mm)								1	.6×0.	8											2	.0×1.2	25			
T max. (mm)							0	.9								1.0			0.9	95		1.0		1.4	15	
Rated Voltage (Vdc)		100			50		35		25		1	.6	10	6.3		6.3		100	50	25	16	250	250	100	5	0
Cap. / TC Code	X8L	X8R	X7R	X8L	X8R	X7R	X8L	X8L	X8R	X7R	X8L	X7R	X7R	X7R	X8L	X8M	X7S	X7R	X7R	X7R	X7R	X7R	X7R	X7R	X8L	X7R
1000pF		p93	p93			p93				p94												p95				
1200pF		p93	p93			p93		į		p94						į										
1500pF		p93	p93			p93				p94												p95				
1800pF		p93	p93			p93				p94																
2200pF		p93	p93			p94				p94												p95				
2700pF		p93	p93			p94				p94																
3300pF		p93	p93			p94				p94												p95				
3900pF		p93	p93			p94				p94																
4700pF		p93	p93		p93	p94				p94												p95				
5600pF		p93	p93			p94				p94																
6800pF		p93	p93			p94				p94												p95				
8200pF		p93	p93			p94				p94																
10000pF		p93	p93		p93	p94				p94													p95			
12000pF		p93	p93			p94				p94																
15000pF		p93	p93	Ī		p94		į		p94	1					į							p95			
18000pF		p93	p93			p94				p94																
22000pF		p93	p93			p94				p94													p95			
27000pF		p93								p95		p95						p95						p95		
33000pF		p93				p94	p94	p94		p95		p95						p95			i			p95		
39000pF		p93				p94	p94	p94		p95		p95						p95						p95		
47000pF		p93				p94				p95		p95												p96		
56000pF		p93				p94	p94	p94		p95		p95												p96		
68000pF		р93				p94	p94	p94		p95		р95												p96		
82000pF						p94		p94		р95		р95												p96	p96	
0.10µF	p93		p93	İ	p93	p94				p95		p95												p96	p96	
0.12µF					p93					p95		p95														
0.15µF				p93	p93	p94		p94		p95		p95														
0.18µF					p93			p94		p95		p95														
0.22µF				p93	p93	p94	i	p94		p95	p95		p95													p96
0.27µF												p95														
0.33µF									p94	i		p95							p95	p95	ĺ					p96
0.39µF									p94			p95														
0.47µF									p94		İ	p95								p95	İ			i	n96	p96
0.56µF								!	P .			100				!									Poo	
0.68µF																					p95	i				
0.82µF																					p95					
1.0µF										p95	i										p95					p96
1.5µF										P33	!										P33					PSG
2.2µF														p95	i											
3.3µF														рээ	p95		p95									
3.3μF 4.7μF															haz		p95									
4.7μF 6.8μF																baa	ba2									
10µF																										
22µF																										
47μF		<u> </u>	i	<u> </u>	<u>i</u>	i	<u> </u>	<u> </u>		<u> </u>	<u> </u>		i	i	<u> </u>	<u> </u>					<u> </u>	<u> </u>		<u> </u>		

#### (→ GCJ Series High Dielectric Constant Type)

p00 ← Part Number	List	ı	EIA:	X7S	X7T	X7F	X8	R	Mui	rata T	empe	rature	e Cha	racte	ristic:	X8L	18X	1								
L×W (mm)			2.	.0×1.2	25											3	3.2×1.	6								
T max. (mm)			1.4	45			1.5		1.25				1.	35				1.8					1.9			
Rated Voltage (Vdc)	35	2	5	1	.6	10	100	1000	630	250	100	50	35	25	1	L6	1000	630	250		100		5	0	35	25
Cap. / TC Code	X8L	X8L	X7R	X8L	X7R	X7R	X7S	X7R	X7R	X7R	X7R	X7R	X8L	X7R	X8L	X7R	X7R	X7R	X7R	X8L	X7R	X7S	X7R	X7S	X8L	X7R
1000pF								p97	p97																	
1200pF																										
1500pF								p97	p97																	
1800pF																										
2200pF								p97	p97																	
2700pF																										
3300pF								p97	p97																	
3900pF																										
4700pF								p97	p97	İ						1										
5600pF																										
6800pF									p97	İ						į	p97	İ								
8200pF																										
10000pF									p97								p97									
12000pF																										
15000pF										p97								р97	ĺ							
18000pF																										
22000pF										p97						1		p97	İ							
27000pF										70.						1		70.								
33000pF																İ			p97	i						
39000pF																ĺ			Po.							
47000pF																			p97	i						
56000pF																			70.							
68000pF										p97						-										
82000pF										PJ																
0.10µF																İ			p97	i		ĺ				
0.12µF	n96	n96																	рэт							
0.15µF											p97					1										
0.18µF											рэ <i>т</i> р97					1										
0.22µF		-									p97					1										
	hao		506		206						ha.															
0.27µF	noc	_	p96		p96																					
0.33µF	hao	_	p96		p96																					
0.39μF 0.47μF	200	p96			p96 p96							p97	207	i												
0.47μF 0.56μF	hao	hao	р96 р96	n06	p96							=	p <del>a</del> 7										p97		p97	
		200			p96							p97 p97				-							р97 р97		р9 <i>7</i> р97	
0.68µF		p96	p96	_								p97				-									p97	
0.82µF		p96	p96		p96		07													-0-	0.7		p97			
1.0µF		p96	p96	p96			p97					p97			-0-					p97	p97		p97		p97	
1.5µF			p96		p96	00								0 ==	p97	0.7	1					0.=-	p97			
2.2µF			p96		p96	p96								p97	p97	p97	ļ					p97	p97			
3.3µF														p97												0
4.7µF					p96											1								p97		p97
6.8µF																										
10µF						p97										1										
22µF																										
47µF		<u> </u>			1									1	<u> </u>	1				<u> </u>	1	1				

#### (→ GCJ Series High Dielectric Constant Type)

p00 ← Part Number	List	I	EIA:	X7S	X7T	X7F	X8	R	Mui	rata T	empe	rature	e Chai	racte	ristic:	X8L	18X	4								
L×W (mm)	3.2×1.6					3.2×2.5										4.5× 3.2										
T max. (mm)	1.9 2.0					1	1.5 2.0 2.3 2.8								2.85		1.5									
Rated Voltage (Vdc)	1	.6	1	.0	6.3	35	2	5	630	250	1000	630	250		100		5	0	2	25	1	.6	6.3	2	5	630
Cap. / TC Code	X8L	X7R	X8L	X7R	X7R	X7T	X8L	X7S	X7R	X7R	X7R	X7R	X7R	X8L	X7R	X7S	X7R	X7S	X8L	X7R	X8R	X7R	X7R	X8L	X7S	X7R
1000pF																										
1200pF																										
1500pF																										
1800pF																										
2200pF																										
2700pF																										
3300pF																										
3900pF																1										
4700pF																										
5600pF																										
6800pF									p98																	
8200pF									PUU																	
10000pF									p98																	
12000pF									рэо																	
15000pF											p98	p98														
18000pF											рэо	рэо														
22000pF					1						p98	p98														
27000pF											рэв	рэс														
33000pF												p98														
39000pF					1							hae														
47000pF												p98														
56000pF					1							bae														
										00																00
68000pF										p98																p98
82000pF													00													
0.10µF					İ								p98													
0.12µF																										
0.15µF										p98																
0.18µF																										
0.22µF					1								p98													
0.27µF																										
0.33µF																										
0.39µF																										
0.47µF																										
0.56µF																										
0.68µF																										
0.82µF																										
1.0µF																										
1.5µF																										
2.2µF														p98	p98											
3.3µF																										
4.7µF	p97	p97														p98	p98		p98							
6.8µF				p97																	p98					
10µF		p97		p97		p97	p98	p98										p98		p98	p98					
22µF			p97	p97	p97																	p98		p98	p98	
47µF																							p98			

#### $(\rightarrow \mathsf{GCJ} \; \mathsf{Series} \; \mathsf{High} \; \mathsf{Dielectric} \; \mathsf{Constant} \; \mathsf{Type})$

→ GCJ Series Hip			_		X7T		
L×W (mm)		4.5>				.7×5.	
T max. (mm)	1.5	1.5	2.0			2.0	
Rated Voltage (Vdc)	250	1000		250	1000		250
Cap. / TC Code	X7R	X7R	X7R	X7R	X7R	X7R	X7R
1000pF	7(1)(	<i>/</i> ( <i>I</i> ( <i>I</i> )	7(7)(	<i>/</i> ( <i>/</i> ( <i>/</i>	7(11(	7(7)(	7(7)(
1200pF							
1500pF							
1800pF 2200pF							
2700pF							
•							
3300pF							
3900pF							
4700pF							
5600pF							
6800pF							
8200pF							
10000pF							
12000pF							
15000pF							
18000pF							
22000pF							
27000pF							
33000pF		p98	p98				
39000pF							
47000pF		p98	p98				
56000pF							
68000pF					p98		
82000pF							
0.10µF			p98		p98	p98	
0.12µF							
0.15µF	p98					p98	
0.18µF							
0.22µF				p98		p98	
0.27µF							
0.33µF				p98			p98
0.39µF							
0.47µF				p98			p98
0.56µF							
0.68µF							p98
0.82µF							
1.0µF							p98
1.5µF							
2.2µF							
3.3µF							
4.7µF							
6.8µF							
10µF							
22µF							
ZZUF							

Murata Temperature Characteristic: X8L X8M

#### **GCQ Series Temperature Compensating Type**

p00 ← Part Number	List	EIA: COG	Ū
L×W (mm)	1.0× 0.5	L×W (mm)	1.0× 0.5
T max. (mm)	0.55	T max. (mm)	0.55
Rated Voltage (Vdc)	50	Rated Voltage (Vdc)	50
Cap. / TC Code	COG	Cap. / TC Code	COG
0.10pF	p101	3.1pF	p102
0.11pF	p101	3.2pF	p102
0.12pF	p101	3.3pF	p102
0.13pF	p101	3.4pF	p102
0.15pF	p101	3.5pF	p102
	p101		p102
0.16pF		3.6pF	-
0.18pF	p101	3.7pF	p102
0.20pF	p101	3.8pF	p102
0.22pF	p101	3.9pF	p102
0.24pF	p101	4.0pF	
0.25pF	p101	4.1pF	p103
0.27pF	p101	4.2pF	p103
0.30pF	p101	4.3pF	p103
0.33pF	p101	4.4pF	p103
0.36pF	p101	4.5pF	p103
0.39pF	p101	4.6pF	p103
0.40pF	p101	4.7pF	p103
0.43pF	p101	4.8pF	p103
0.45pF	p101	4.9pF	p103
0.47pF	p101	5.0pF	p103
0.50pF	p101	5.1pF	p103
0.51pF	p101	5.2pF	p103
0.56pF	p101	5.3pF	p103
0.60pF	p101	5.4pF	p103
0.62pF	p101	5.5pF	p103
0.68pF	p101	5.6pF	p103
0.70pF	p101	5.7pF	p103
0.75pF	p101	5.8pF	p103
0.80pF	p101	5.9pF	p103
0.82pF	p101	6.0pF	p103
	p101	6.1pF	p103
0.85pF			
0.90pF	p101	6.2pF	p103
0.91pF	p101	6.3pF	p103
0.95pF	p101	6.4pF	p103
1.0pF	p101	6.5pF	p103
1.1pF	p101	6.6pF	p103
1.2pF	p101	6.7pF	p104
1.3pF	p102	6.8pF	p104
1.4pF	p102	6.9pF	p104
1.5pF	p102	7.0pF	p104
1.6pF		7.1pF	
1.7pF	p102	7.2pF	p104
1.8pF	p102	7.3pF	p104
1.9pF	p102	7.4pF	p104
2.0pF	p102	7.5pF	p104
2.1pF	p102	7.6pF	p104
2.2pF	p102	7.7pF	p104
2.3pF	p102	7.8pF	p104
2.4pF	p102	7.9pF	p104
2.5pF	p102	8.0pF	p104
2.6pF	p102	8.1pF	p104
2.7pF	p102	8.2pF	p104
2.8pF	p102	8.3pF	p104
2.9pF	p102	8.4pF	p104
3.0pF	p102		p104
5.5рі	71		71

L×W (mm)	1.0× 0.5
T max. (mm)	0.55
Rated Voltage (Vdc)	50
Cap. / TC Code	C0G
8.6pF	p104
8.7pF	p104
8.8pF	p104
8.9pF	p104
9.0pF	p104
9.1pF	p104
9.2pF	p104
9.3pF	p104
9.4pF	p105
9.5pF	p105
9.6pF	p105
9.7pF	p105
9.8pF	p105
9.9pF	p105
10pF	p105
11pF	p105
12pF	p105
13pF	p105
14pF	p105
15pF	p105
16pF	p105
17pF	p105
18pF	p105
19pF	p105
20pF	p105
22pF	p105
24pF	p105
27pF	p105
30pF	p105
33pF	p105
36pF	p105
39pF	p105
43pF	p105
47pF	p105

#### GCD Series High Dielectric Constant Type

p00 ← Part Number	List	ı	EIA:	X7S	X7R			
L×W (mm)	1	.6×0.	8	2.0×1.25				
T max. (mm)		0.9		1.4				
Rated Voltage (Vdc)	100	50	25	100	50	16		
Cap. / TC Code	X7R	X7R	X7R	X7R	X7R	X7S		
1000pF	p107	p107						
1200pF	p107	p107						
1500pF	p107	p107						
1800pF	p107	p107						
2200pF	p107	p107						
2700pF	p107	p107						
3300pF	p107	p107						
3900pF	p107	p107						
4700pF	p107	p107						
5600pF	p107	p107						
6800pF	p107	p107						
8200pF	p107	p107						
10000pF	p107	p107						
12000pF	p107	p107						
15000pF	p107	p107						
18000pF	p107	p107						
22000pF	p107	p107						
27000pF			p107	p107	p107			
33000pF			p107	p107	p107			
39000pF			p107	p107	p107			
47000pF			p107	p107	p107			
56000pF				p107	p107			
68000pF				p107	p108			
82000pF				p107	p108			
0.10µF				p107	p108			
0.47µF						p108		

### GCE Series High Dielectric Constant Type

#### p00 ← Part Number List L×W (mm) 1.6×0.8 2.0×1.25 0.9 1.45 T max. (mm) 100 50 Rated Voltage (Vdc) 100 50 Cap. / TC Code X7R X7R X7R X7R X7R 1000pF p110 p110 1200pF p110 1500pF p110 p110 1800pF p110 p110 2200pF p110 p110 2700pF p110 p110 3300pF p110 p110 3900pF p110 p110 4700pF p110 p110 5600pF p110 p110 6800pF 8200pF 10000pF 12000pF 15000pF 18000pF 22000pF 27000pF p110 p110 p110 33000pF p110 p110 39000pF p110 p110 47000pF p110 56000pF p110 p110 p110 p111 68000pF p110 p111 82000pF

#### **NFM Series**

p00 ← Part Number List

L×W (mm)	1.6	×0.8	2.	0×1.2	25	3.2	×1.6
T max. (mm)	0.	.7		0.95		1	.5
Rated Voltage (Vdc)	16	6.3	50	16	10	100	50
Cap. / TC Code	-	-	-	-	-	-	-
220pF			p114				
470pF			p114				
1000pF			p114				
2200pF			p114				
10000pF						p114	p114
15000pF							p114
22000pF			p114				p114
0.10µF					p114		p114
0.22µF					p114		
0.47µF					p114		
1.0µF	p114	p114		p114			

### KCM Series Temperature Compensating Type

p00 ← Part Number List EIA: COG U2J

L×W (mm)				6.1	×5.1			
T max. (mm)		3.1		3.9		5.1		6.6
Rated Voltage (Vdc)	1000	63	30	630	1000	63	30	630
Cap. / TC Code	U2J	COG	U2J	COG	U2J	COG	U2J	COG
8200pF	p117							
10000pF	p117							
0.015µF		p117						
0.016µF					p117			
0.018µF		p117						
0.020µF					p117			
0.022µF				p117				
0.027µF				p117				
0.030µF						p117		
33000pF			p117					
0.036µF						p117		
39000pF			p117					
0.044µF								p117
47000pF			p117					
0.054µF								p117
66000pF							p117	
78000pF							p117	
94000pF							p117	

#### KCM Series High Dielectric Constant Type

p00 ← Part Number List EIA: X75 X7R

0.10µF

L×W (mm)										E	.1×5.	3									
T max. (mm)			3.0					3.	.9				5.	.0				6.	7		
Rated Voltage (Vdc)	100	63	50	35	25	100	63	50	35	2	5	100	50	35	25	100	63	50	35	2	5
Cap. / TC Code	X7R	X7R	X7R	X7R	X7R	X7R	X7R	X7R	X7R	X7R	X7S	X7R	X7R	X7R	X7R	X7R	X7R	X7R	X7R	X7R	X7S
4.7µF	p118	p118	p118																		
6.8µF						p118															
10µF			p118	p118		p118	p118	p118				p118									
15µF				p118	p118											p118					
17µF								p118	p118												
22µF									p118	p118			p118	p118		p118	p118	p118			
33µF										p118				p118	p118			p118	p118		
47µF											p118								p118	p118	
68µF																				p118	
100µF																					p118

### KC3 Series High Dielectric Constant Type

p00	← Part Number	List	I	EIA:	X7T								
	L×W (mm)						6.1	×5.3					
	T max. (mm)		3.0			3.9			5.0			6.7	
Rat	ted Voltage (Vdc)	630	450	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
	0.10µF	p121											
	0.15µF	p121											
	0.22µF		p121		p121								
	0.27µF				p121								
	0.33µF	p121	p121										
	0.47µF	p121	p121	p121							p121		
	0.56µF				p121	p121					p121		
	0.68µF		p121	p121				p121	p121				
	1.0µF					p121	p121	p121	p121				
	1.2µF										p121	p121	
	1.5µF								p121	p121			
	2.2µF											p121	p121

### KCA Series Temperature Compensating Type

p00 ← Part Number	List		EIA:	U2J
L×W (mm)		6.1	×5.1	
T max. (mm)	3.0	3.9	5.0	6.7
Rated Voltage (Vac (r.m.s.))	250	250	250	250
Cap. / TC Code	U2J	U2J	U2J	U2J
100pF	p124			
150pF	p124			
220pF	p124			
330pF	p124			
470pF	p124			
680pF	p124			
1000pF	p124			
1500pF	p124			
2200pF	p124			
3300pF	p124			
4700pF		p124		
6800pF			p124	
10000pF				p124

### GCB Series High Dielectric Constant Type

p00 ← Part Number	List	I	EIA:	X8R
L×W (mm)		1.0	٥.5	
T max. (mm)		0.	55	
Rated Voltage (Vdc)	100	50	25	16
Cap. / TC Code	X8R	X8R	X8R	X8R
1000pF	p126	p126		
1500pF	p126	p126		
2200pF	p126	p126		
3300pF	p126	p126		
4700pF	p126	p126		
6800pF	p126		p126	
10000pF	p126		p126	
15000pF		p126		p126
22000pF		p126		p126
33000pF		p126		p126
47000pF		p126	p126	p126
68000pF			p126	p126
0.10µF			p126	p126

#### GCG Series Temperature Compensating Type

GC	G Series Ter	npe	ratu	ıre (	Com	pen	sati	ng T	ype	!										
p00	← Part Number	List		JIS:	СН	CJ	CK		EIA:	COG	U2J	М	ırata '	Tempera	ature	Char	acter	istic:	СНА	X8G
	L×W (mm)			1.0	×0.5			1.	.6×0.8	8	2.0×	1.25								
	T max. (mm)			0.	55				0.9		0.7	0.95								
Ra	ted Voltage (Vdc)				0			10		50	50	50								
	Cap. / TC Code			CJ	_			U2J	X8G	X8G	X8G	X8G								
	1.0pF		_			p133														
	1.1pF					p133	-	1												
	1.2pF				_	p133														
	1.3pF				_	p133	_	- 1												
	1.4pF 1.5pF	_				p134 p134		- 1												
	1.5pF 1.6pF		-		_	p134	_													
	1.7pF					p134	_													
	1.7 pr		_			p134	_													
	1.9pF					p134														
	2.0pF					p134														
	2.1pF			p133	_	p134														
	2.2pF			_		p134														
	2.3pF	p128	p130	p133			p137													
	2.4pF	p128	p130	p133		p134	p137													
	2.5pF	p128	p130	p133		p134	p137													
	2.6pF	p128	p130	p133		p134	p137													
	2.7pF	p128	p131	p133		p134	p137													
	2.8pF	p128	p131	p133		p134	p137													
	2.9pF	p128	p131	p133		p134	p137													
	3.0pF	_		_		p134	p137													
	3.1pF			_		p134	p137													
	3.2pF			_		-	p137													
	3.3pF			_		_	p137													
	3.4pF			_			p137													
	3.5pF						p137	1												
	3.6pF	_					p137	1 1												
	3.7pF 3.8pF			_		p134	р137 р137													
	3.9pF			_		-	p137													
	4.0pF			<b>P-00</b>			p137	1												
	4.1pF	_	-			p134	_	- 1												
	4.2pF						p137													
	4.3pF						p137	1 1												
	4.4pF	p128	p131			p134	p137													
	4.5pF	p128	p131			p134	p137													
	4.6pF	p129	p131			p134	p137													
	4.7pF		-			p134	p137													
	4.8pF					-	p137													
	4.9pF					-	p137	1												
	5.0pF					-	p137	- 1												
	5.1pF		_			_	p138	1												
	5.2pF	_				_	p138	- 1												
	5.3pF		_			p135	_													
	5.4pF 5.5pF					p135 p135	-													
	5.5pF 5.6pF						p138													
	5.7pF					_	p138													
	5.8pF					_	p138													
	5.9pF		_				p138													
	6.0pF	_					p138	1												
	6.1pF	_				-	p138													
	6.2pF	_	-			p135	_													
	6.3pF	p129	p132				p138													
	6.4pF	p129	p132			p135	p138													
10	entinued on the	C - II																		

#### (→ GCG Series Temperature Compensating Type)

(→ GCG Series To	-		JIS:	CH	CJ	CK			COG	U2J	<b>1</b> ,	Murata Tem	nerature	Chara	cteristic:	СНА	(8G
					00	<u> </u>							.po. aca. o	•a.a	0001.50.01	<b>3.</b>	
L×W (mm)				×0.5			1	.6×0.	8		1.25						
T max. (mm)				55			1/	0.9	50		0.95 50						
Rated Voltage (Vdc)  Cap. / TC Code		СН	CJ	CK	СПУ	vec		00 X8G		50	X8G						
6.5pF			CJ	CK	p135		023	AGG	AGG	AGG	AGG						
6.6pF		_			p135												
6.7pF					p135	_											
6.8pF					p135	_											
6.9pF		_			p135	_											
7.0pF	-					p138											
7.1pF	-	-			p135												
7.2pF		_			_	p138											
7.3pF					p135												
7.4pF					p135	p138											
7.5pF					p135	_											
7.6pF	p129	p132			p135	p138											
7.7pF	p129	p132			p135	p138											
7.8pF					p135	p138											
7.9pF					p135	_											
8.0pF					p135	p138											
8.1pF	p129	p132			p135	p138											
8.2pF	p130	p132			p135	p138											
8.3pF	p130	p132			p135	p138											
8.4pF	p130	p132			p135	p138											
8.5pF	p130	p132			p135	p138											
8.6pF	p130	p132			p136	p138											
8.7pF	p130	p132			p136	p139											
8.8pF	p130	p132			p136	p139											
8.9pF	p130	p132			p136	p139											
9.0pF	p130	p132			p136	p139											
9.1pF	_					p139											
9.2pF					p136	p139											
9.3pF						p139											
9.4pF		_				p139											
9.5pF	_	-				p139											
9.6pF					p136												
9.7pF					p136												
9.8pF 9.9pF					p136	_											
	_	p133			-	p139 p139		-140	-141								
11pF	p130	h133			p136	_		p140 p140									
12pF					p136	_		p140 p140									
13pF					p136			p140									
15pF					p136	_		p140									
16pF					p136			p140									
18pF						p139		p140									
20pF					p136			p140									
22pF						p139		p140									
24pF						p139		p140									
27pF						p139		p140									
30pF					p136	_		p140									
33pF					p136	p139		p140									
36pF					p136	p139		p140									
39pF					p136	p139		p140	p141								
43pF					p136	-		p140									
47pF					p136	p139		p140	p141								
51pF					p136	p139		p140									
56pF					p136	p139		p140	p141								
62pF					p136	p139		p140									
1																	

#### (→ GCG Series Temperature Compensating Type)

(→ GCG Series 16	empe	erati	ure (		pens	aum	gıy				_	
p00 ← Part Number	List		JIS:	СН	C1	CK		EIA:	COG	U2J	٨	Murata Temperature Characteristic: CHA X8G
L×W (mm)			1.0	×0.5			1	6×0.	8	2.0×	1.25	
T max. (mm)			0.	55				0.9		0.7	0.95	
Rated Voltage (Vdc)			5	0			10	00	50	50	50	
Cap. / TC Code	COG	СН	CJ	СК	СНА	X8G	U2J	X8G	X8G	X8G	X8G	
68pF					p136	p139		p140	p141			
75pF					p136	p139		p141				
82pF					p136	p139		p141	p142			
91pF					p136	p139		p141				
100pF					p136	p139		p141	p142			
110pF						p139		p141				
120pF						p139		p141	p142			
130pF						p139		p141				
150pF						p139		p141	p142			
160pF						p139		p141				
180pF						p139		p141	p142			
200pF						p139		p141				
220pF						p139		p141	p142			
240pF						p140		p141				
270pF						p140		p141				
300pF						p140		p141				
330pF						p140		p141	p142			
360pF						p140		p141				
390pF					i	p140		p141	p142			
430pF						p140		p141				
470pF						p140		p141	p142			
510pF								p141				
560pF								p141	p142			
620pF								p141				
680pF								p141				
750pF								p141				
820pF								p141				
910pF								p141	_			
1000pF							p140	p141		p142		
1100pF							p140	•		•		
1200pF							p140		p142	p142		
1300pF							p140			•		
1500pF							p140		p142	p142		
1600pF							p140					
1800pF							p140		p142	p142		
2000pF							p140					
2200pF							p140		p142	p142		
2400pF							p140					
2700pF							p140			p142		
3000pF							p140					
3300pF							p140			p142		
3600pF							p140					
3900pF							p140			p142		
4300pF							, p140					
4700pF							p140			p142		
5100pF							, p140					
5600pF							, p140				p142	
6200pF							p140					
6800pF							p140				p142	
7500pF							p140					
8200pF							p140				p142	
9100pF							p140					
10000pF							p140				p142	
										1		

### GCG Series High Dielectric Constant Type

L×W (mm)			1.0	×0.5							1.6	×0.8									2.0×	1.25				
T max. (mm)			0.	55							0	.9									1.	45				
ated Voltage (Vdc)		0		:5		.6	100		50			:5		.6	10	6.3		0		5		25		1		1
Cap. / TC Code			X8L	X7R	X8L	X7R	X8R	X8L	X8R	X7R	X8R	X7R	X8L	X7R	X7S	X7R	X8L	X7R	X8L	X7R	X8L	X8R	X7R	X8L	X7R	X7
220pF																										
270pF																										
330pF																										
390pF																										
470pF																į										
560pF																										
680pF											į					į										
820pF																										
1000pF							p144		p144							:										
1200pF							p144		p144																	
1500pF							p144		p144							į										
1800pF							p144		p144																	
2200pF							p144		p144																	
2700pF							p144		p144																	
3300pF							p144		p144																	
3900pF							p144		p144																	
4700pF	p143						p144		p144																	
5600pF			p143				p144		p144																	
6800pF			p143				p144		p144							į										
8200pF		:	p143				p144		p144							!										
10000pF			p143	p143			p144		p144							1										
12000pF							p144																			
15000pF					_	p143			p144							!										
18000pF					_	p143	p144																			
22000pF					-	p143	p144		p144							!										
27000pF					p143		p144																			
33000pF						p143	p144		p144		į					į										
39000pF					p143		p144									į										
47000pF					p143		p144		p144							!										
56000pF						p143	p144									:										
68000pF						p143	p144																			
82000pF						p143																				
0.10µF						p143	p144		p144																	
0.12µF									p144			p144														
0.15µF								p144	p144	p144		p145	p145					p145								
0.18µF									p144		i	p145						p145								
0.22µF								p144	p144	p144		p145	p145					p145								
0.27µF											p144							-4 AE	i		-145		p145 p145	-145		
0.33µF 0.39µF											р144 р144							p145			p145		p145			
0.39µF 0.47µF											р144 р144					į		p145	i				p145 p145			
0.47μF 0.56μF											p144					1		p145						p145 p145		
0.56µF																!			p145	51.4E		n14E	p145			
0.82µF																!			p143	pras		p145				
0.82μF 1.0μF													n1/15	p145	i	:	n145	n145	p145	p145	İ	-	p145	p145		
1.0µF 1.2µF													P143	P145			P145	9145	h142	p145		р145	9145			
1.2µF 1.5µF																										
2.2µF															n145	p145										
2.2µF 3.3µF															p145	p145										
																										-
3.9µF																									p145	i
4.7μF 6.8μF																									9145	
6.8µF 10µF																										p.
10μ-														i		į			İ							Ľ
22µF																!			!							

#### (→ GCG Series High Dielectric Constant Type)

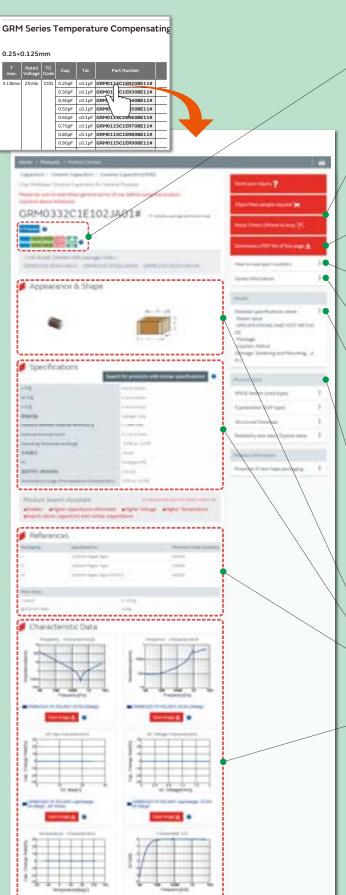
L×W (mm)	2.0×	1.25				3.2	×1.6							3	3.2×2.	5			
T max. (mm)		45		1.35		J.2		1.9							2.8				
Rated Voltage (Vdc)		.3	50	25	16	2	5		6	6.3		50	3	5	2.0	25		16	6.
Cap. / TC Code		X7R			X8L		X7R		X8R			X7S		X7S	XXI		X7S		_
	AOL	\/K	NOR	\/K	VOL	NOR	A/K	VOL	NOK	A/K	AGL	1/13	VOL	X/3	AGL	A/K	\/\ \/\ \	NOR	^/
220pF																1			
270pF																			
330pF																!			
390pF																i			
470pF																!			
560pF																			
680pF		i												ļ		į			
820pF																			
1000pF																			
1200pF																			
1500pF																			
1800pF																į			
2200pF																			
2700pF																			
3300pF																			
3900pF																			
4700pF																			
5600pF																			
6800pF																			
																1			
8200pF																į			
10000pF																			
12000pF																			
15000pF																			
18000pF																			
22000pF																!			
27000pF																			
33000pF																			
39000pF																			
47000pF																			
56000pF																İ			
68000pF																			
82000pF																			
0.10µF																			
0.12µF																1			
0.15µF																į			
0.18µF																			
0.22µF			p145																
0.22μF 0.27μF			P143													!			
0.27μF 0.33μF			p145																
			p145													1			
0.39µF																			
0.47µF																1			
0.56µF																			
0.68µF									p146							!			
0.82µF																			
1.0µF					p146	p146			p146										
1.2µF				p145															
1.5µF				p146	p146														
2.2µF				p146															
3.3µF							p146	p146											
3.9µF							p146												
4.7µF							р146	p146											
6.8µF																		p146	
10µF	p145	p145									p146	p146	p146	p146		p146		p146	
22µF		12.13								p146		1-2-10			p146		p146	1-2-10	
2245		1				1				100		1		1	P-40		22.40		

### **Search Capacitors**

Specifications and Test Methods, Package, Chart of Characteristic Data, please refer to the search web page.

https://www.murata.com/en-global/products/capacitor

Links are provided to the product detail pages on the web, and are shown below in the product number table from the PDF version of the catalog which is available on the web.



#### Status and Features Icons

The status and features of products can be checked at once. When ③ is clicked, a description of each icon will be displayed

### Stock Check (Where to buy)

Some products can request free samples.

Reference inventory information from agents and web-based companies.

#### **Data Sheet**

The product details page can be output in PDF.

#### How to read part numbers

Describes the meaning of the part number

#### Series Information

This links to the introduction page of each series.

#### **Detailed Specifications Sheet**

- Rated value
- Specifications and Test Methods
- Package
- Caution, Notice (Storage, Soldering and Mounting, ....etc.)

#### Characteristics Data

The following characteristics data of the main products can be acquired.

- SPICE Netlist (mod type)
- S parameter (S2P type)
- Reliability Test Data \*Typical data
- Shape (Dimensions)
- Rated Values
- Specification by Packaging Code/ Minimum Order Quantity
- Weight (1 pc/ø180mm reel)

#### Chart of Characteristic Data

The main products published characteristic data.

- Frequency characteristics (ESR, Impedance)
- DC bias characteristics
- AC voltage characteristics
- Capacitance temperature characteristics
- Calorific property by ripple current

AEC-Q200 Compliant Chip Multilayer Ceramic Capacitors for Infotainment

### **GRT Series**









### AEC-Q200 compliant capacitor (Grade2 or Grade3).

#### **Features**

1 This product has cleared AEC-Q200 compliant test conditions.

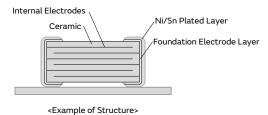
This series is designed for use in Car Multimedia, Car Interior, Car Comfort application and General Electronic equipment. It is not appropriate for use in applications critical to passenger safety and car driving function (e.g. ABS, AIRBAG, etc.). Please use the GCM series is in critical applications.

	General Purpose GRM Series Maximum operating temperature: <b>125°C</b>	AEC-Q200 compliant GRT Series Maximum operating temperature: <b>125°C</b>
Items	Test Method	Test Method
Temperature Cycle	Temperature Cycle: 5 cycles	Temperature Cycle: 1,000 cycles
Humidity Loading	Test temperature: 40±2°C Test humidity: 90 to 95%RH Test time: 500 hours	Test temperature: 85±2°C Test humidity: 80 to 85%RH Test time: 1,000 hours

2 AEC-Q200 compliant (Grade2 or Grade3)

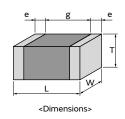
105°C product: Grade2. 85°C product: Grade3.

3 Sn plating is applied to the external electrodes; excellent solderability.



#### Specifications

Size	0.6×0.3mm to 3.2×2.5mm
Rated Voltage	2.5Vdc to 100Vdc
Capacitance	0.10pF to 100μF
Main Applications	Such as Information and Comfort equipment, car navigation, communication module and entertainment system



0.6×0.	3mm					
T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number	
0.33mm	100Vdc	COG	0.10pF	±0.05pF	GRT0335C2AR10WA02#	D1
			0.20pF	±0.05pF	GRT0335C2AR20WA02#	<b>D1</b>
				±0.1pF	GRT0335C2AR20BA02#	D1
			0.30pF	±0.05pF	GRT0335C2AR30WA02#	D1
				±0.1pF	GRT0335C2AR30BA02#	D1
			1.0pF	±0.25pF	GRT0335C2A1R0CA02#	D1
			1.1pF	±0.25pF	GRT0335C2A1R1CA02#	D1
			1.2pF	±0.25pF	GRT0335C2A1R2CA02#	D1
			1.3pF	±0.25pF	GRT0335C2A1R3CA02#	<b>D1</b>
			1.5pF	±0.25pF	GRT0335C2A1R5CA02#	DI
			1.6pF	±0.25pF	GRT0335C2A1R6CA02#	<b>D1</b>
			1.8pF	±0.25pF	GRT0335C2A1R8CA02#	<b>D1</b>
			2.0pF	±0.25pF	GRT0335C2A2R0CA02#	<b>D1</b>
			2.2pF	±0.25pF	GRT0335C2A2R2CA02#	<b>D1</b>
			2.4pF	±0.25pF	GRT0335C2A2R4CA02#	<b>D1</b>
			2.7pF	· ·	GRT0335C2A2R7CA02#	<b>D1</b>
			3.0pF	· ·	GRT0335C2A3R0CA02#	<b>D1</b>
			3.3pF	· ·	GRT0335C2A3R3CA02#	<b>D1</b>
			3.6pF	'	GRT0335C2A3R6CA02#	<b>1</b>
			3.9pF		GRT0335C2A3R9CA02#	M
			4.0pF		GRT0335C2A4R0CA02#	<b>D1</b>
			4.3pF		GRT0335C2A4R3CA02#	M
			4.7pF		GRT0335C2A4R7CA02#	M
			5.0pF		GRT0335C2A5R0CA02#	<u> </u>
			5.1pF	±0.5pF	GRT0335C2A5R1DA02#	<u> </u>
			5.6pF	±0.5pF	GRT0335C2A5R6DA02#	<u> </u>
			6.0pF	±0.5pF	GRT0335C2A6R0DA02#	<u> </u>
			6.2pF	±0.5pF	GRT0335C2A6R2DA02#	<b>1</b>
			6.8pF 7.0pF	±0.5pF	GRT0335C2A6R8DA02#	<u> </u>
			7.5pF	±0.5pF	GRT0335C2A7R0DA02# GRT0335C2A7R5DA02#	<u>M</u>
			<u> </u>	±0.5pF	GRT0335C2A7R3DA02#	D1
			8.0pF 8.2pF	±0.5pF ±0.5pF	GRT0335C2A8R2DA02#	01
			9.0pF	±0.5pF	GRT0335C2A9R0DA02#	01
			9.1pF	±0.5pF	GRT0335C2A9R1DA02#	01
			10pF	±1%	GRT0335C2A100FA02#	01
			200.	±2%	GRT0335C2A100GA02#	01
				±5%	GRT0335C2A100JA02#	01
			11pF	±2%	GRT0335C2A110GA02#	01
				±5%	GRT0335C2A110JA02#	01
			12pF	±1%	GRT0335C2A120FA02#	01
				±2%	GRT0335C2A120GA02#	<u></u>
				±5%	GRT0335C2A120JA02#	01
			13pF	±2%	GRT0335C2A130GA02#	<u></u>
				±5%	GRT0335C2A130JA02#	<u></u>
			15pF	±1%	GRT0335C2A150FA02#	01
				±2%	GRT0335C2A150GA02#	<u></u>
				±5%	GRT0335C2A150JA02#	<u></u>
			16pF	±2%	GRT0335C2A160GA02#	<b>D1</b>
				±5%	GRT0335C2A160JA02#	<b>D1</b>
			18pF	±1%	GRT0335C2A180FA02#	01
				±2%	GRT0335C2A180GA02#	D1

т	Rated	тс				
max.	Voltage	Code	Cap.	Tol.	Part Number	
0.33mm	100Vdc	COG	18pF	±5%	GRT0335C2A180JA02#	<b>D1</b>
			20pF	±1%	GRT0335C2A200FA02#	D1
				±2%	GRT0335C2A200GA02#	01
				±5%	GRT0335C2A200JA02#	01
			22pF	±1%	GRT0335C2A220FA02#	DI
				±2%	GRT0335C2A220GA02#	D1
				±5%	GRT0335C2A220JA02#	DI C
			24pF	±1%	GRT0335C2A240FA02#	DI ST
				±2%	GRT0335C2A240GA02#	<b>1 1 1 1 1 1 1 1 1 1</b>
			2755	±5%	GRT0335C2A240JA02#	<b>1 1 1 1 1 1 1 1 1 1</b>
			27pF	±1% ±2%	GRT0335C2A270FA02# GRT0335C2A270GA02#	01 01
				±5%	GRT0335C2A270JA02#	01
			30pF	±1%	GRT0335C2A300FA02#	01
			Зорі	±2%	GRT0335C2A300GA02#	01
				±5%	GRT0335C2A300JA02#	01
			33pF	±1%	GRT0335C2A330FA02#	01
				±2%	GRT0335C2A330GA02#	01
				±5%	GRT0335C2A330JA02#	01
			36pF	±1%	GRT0335C2A360FA02#	01
				±2%	GRT0335C2A360GA02#	01
				±5%	GRT0335C2A360JA02#	01
			39pF	±1%	GRT0335C2A390FA02#	01
				±2%	GRT0335C2A390GA02#	<b>D1</b>
				±5%	GRT0335C2A390JA02#	01
			43pF	±1%	GRT0335C2A430FA02#	<b>D1</b>
				±2%	GRT0335C2A430GA02#	<b>D1</b>
				±5%	GRT0335C2A430JA02#	<b>D1</b>
			47pF	±1%	GRT0335C2A470FA02#	D1
				±2%	GRT0335C2A470GA02#	<b>D1</b>
				±5%	GRT0335C2A470JA02#	D1
			51pF	±1%	GRT0335C2A510FA02#	<b>D1</b>
				±2%	GRT0335C2A510GA02#	01
				±5%	GRT0335C2A510JA02#	<b>1</b>
			56pF	±1%	GRT0335C2A560FA02#	DI G
				±2% ±5%	GRT0335C2A560GA02# GRT0335C2A560JA02#	D1
			62pF	±5% ±1%	GRT0335C2A560JA02#	01
			OZPI	±2%	GRT0335C2A620GA02#	01
				±5%	GRT0335C2A620JA02#	01
			68pF	±1%	GRT0335C2A680FA02#	01
			- 1- 1	±2%	GRT0335C2A680GA02#	01
				±5%	GRT0335C2A680JA02#	01
			75pF	±1%	GRT0335C2A750FA02#	01
			•	±2%	GRT0335C2A750GA02#	01
				±5%	GRT0335C2A750JA02#	01
			82pF	±1%	GRT0335C2A820FA02#	01
				±2%	GRT0335C2A820GA02#	<b>D1</b>
				±5%	GRT0335C2A820JA02#	<b>D1</b>
			91pF	±1%	GRT0335C2A910FA02#	<b>D1</b>
				±2%	GRT0335C2A910GA02#	<b>D1</b>
				±5%	GRT0335C2A910JA02#	01
			100pF	±1%	GRT0335C2A101FA02#	01
				±2%	GRT0335C2A101GA02#	D1

(→ 0.6	0.3mm،	)				
T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number	
0.33mm	100Vdc	COG	100pF	±5%	GRT0335C2A101JA02#	<b>D1</b>
	50Vdc	COG	0.10pF	±0.05pF	GRT0335C1HR10WA02#	D1
			0.20pF	±0.05pF	GRT0335C1HR20WA02#	<b>D1</b>
				±0.1pF	GRT0335C1HR20BA02#	<b>D1</b>
			0.30pF	±0.05pF	GRT0335C1HR30WA02#	<b>D1</b>
				±0.1pF	GRT0335C1HR30BA02#	<b>D1</b>
			0.47pF	±0.05pF	GRT0335C1HR47WA02#	<b>D1</b>
				±0.1pF	GRT0335C1HR47BA02#	<b>D1</b>
			0.56pF	±0.05pF	GRT0335C1HR56WA02#	<b>D1</b>
				±0.1pF	GRT0335C1HR56BA02#	<b>D1</b>
			0.68pF	±0.05pF	GRT0335C1HR68WA02#	<b>D1</b>
				±0.1pF	GRT0335C1HR68BA02#	<b>D1</b>
			0.75pF	±0.05pF	GRT0335C1HR75WA02#	<b>D1</b>
				±0.1pF	GRT0335C1HR75BA02#	D1
			0.82pF	±0.05pF	GRT0335C1HR82WA02#	<b>D1</b>
				±0.1pF	GRT0335C1HR82BA02#	<b>D1</b>
			0.91pF	±0.05pF	GRT0335C1HR91WA02#	D1
				±0.1pF	GRT0335C1HR91BA02#	<b>D1</b>
			1.0pF	±0.25pF	GRT0335C1H1R0CA02#	D1
			1.1pF	±0.25pF	GRT0335C1H1R1CA02#	<b>D1</b>
			1.2pF	±0.25pF	GRT0335C1H1R2CA02#	D1
			1.3pF	±0.25pF	GRT0335C1H1R3CA02#	<b>D1</b>
			1.5pF	±0.25pF	GRT0335C1H1R5CA02#	<b>D1</b>
			1.6pF	±0.25pF	GRT0335C1H1R6CA02#	<b>D1</b>
			1.8pF	· ·	GRT0335C1H1R8CA02#	<b>1</b>
			2.0pF		GRT0335C1H2R0CA02#	<b>1</b>
			2.2pF		GRT0335C1H2R2CA02#	<b>1</b>
			2.4pF		GRT0335C1H2R4CA02#	<u> </u>
			2.7pF	· ·	GRT0335C1H2R7CA02#	<u> </u>
			3.0pF		GRT0335C1H3R0CA02#	<b>D</b>
			3.3pF		GRT0335C1H3R3CA02#	D1
			3.6pF		GRT0335C1H3R6CA02#	01
			3.9pF 4.0pF	-	GRT0335C1H3R9CA02# GRT0335C1H4R0CA02#	01
			4.3pF	-	GRT0335C1H4R3CA02#	01
			4.7pF		GRT0335C1H4R7CA02#	01
			5.0pF	•	GRT0335C1H5R0CA02#	01
			5.1pF	· ·	GRT0335C1H5R1DA02#	01
			5.6pF	±0.5pF	GRT0335C1H5R6DA02#	01
			6.0pF	±0.5pF	GRT0335C1H6R0DA02#	01
			6.2pF	±0.5pF	GRT0335C1H6R2DA02#	<u></u>
			6.8pF	±0.5pF	GRT0335C1H6R8DA02#	<u></u>
			7.0pF	±0.5pF	GRT0335C1H7R0DA02#	01
			7.5pF	±0.5pF	GRT0335C1H7R5DA02#	01
			8.0pF	±0.5pF	GRT0335C1H8R0DA02#	<b>D1</b>
			8.2pF	±0.5pF	GRT0335C1H8R2DA02#	<b>D1</b>
			9.0pF	±0.5pF	GRT0335C1H9R0DA02#	<b>D1</b>
			9.1pF	±0.5pF	GRT0335C1H9R1DA02#	D1
			10pF	±5%	GRT0335C1H100JA02#	D1
			11pF	±1%	GRT0335C1H110FA02#	D1
				±2%	GRT0335C1H110GA02#	DI
				±5%	GRT0335C1H110JA02#	D1
			12pF	±1%	GRT0335C1H120FA02#	D1
				±2%	GRT0335C1H120GA02#	D1

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number	
0.33mm	50Vdc	COG	12pF	±5%	GRT0335C1H120JA02#	<b>D1</b>
			13pF	±1%	GRT0335C1H130FA02#	D1
				±2%	GRT0335C1H130GA02#	D1
				±5%	GRT0335C1H130JA02#	01
			15pF	±1%	GRT0335C1H150FA02#	D1
				±2%	GRT0335C1H150GA02#	<b>D1</b>
				±5%	GRT0335C1H150JA02#	<b>D1</b>
			16pF	±1%	GRT0335C1H160FA02#	<b>D1</b>
				±2%	GRT0335C1H160GA02#	01
				±5%	GRT0335C1H160JA02#	D1
			18pF	±1%	GRT0335C1H180FA02#	<b>D1</b>
				±2%	GRT0335C1H180GA02#	01
				±5%	GRT0335C1H180JA02#	01
			20pF	±1%	GRT0335C1H200FA02#	D1
				±2%	GRT0335C1H200GA02#	<b>D1</b>
				±5%	GRT0335C1H200JA02#	<b>D1</b>
			22pF	±1%	GRT0335C1H220FA02#	<b>D1</b>
				±2%	GRT0335C1H220GA02#	<b>D1</b>
				±5%	GRT0335C1H220JA02#	<b>D1</b>
			24pF	±1%	GRT0335C1H240FA02#	D1
				±2%	GRT0335C1H240GA02#	<b>D1</b>
				±5%	GRT0335C1H240JA02#	<b>D1</b>
			27pF	±1%	GRT0335C1H270FA02#	<b>D1</b>
				±2%	GRT0335C1H270GA02#	<b>D1</b>
				±5%	GRT0335C1H270JA02#	DI O
			30pF	±1%	GRT0335C1H300FA02#	<b>1</b>
				±2%	GRT0335C1H300GA02#	
			22-5	±5%	GRT0335C1H300JA02#	<u> </u>
			33pF	±1%	GRT0335C1H330FA02#	<u> </u>
				±2% ±5%	GRT0335C1H330GA02# GRT0335C1H330JA02#	<b>D1</b>
			36pF	±5% ±1%	GRT0335C1H360FA02#	回回
			Зорі	±2%	GRT0335C1H360GA02#	01
				±5%	GRT0335C1H360JA02#	01
			39pF	±1%	GRT0335C1H390FA02#	01
			03p.	±2%	GRT0335C1H390GA02#	01
				±5%	GRT0335C1H390JA02#	回
			43pF	±1%	GRT0335C1H430FA02#	01
				±2%	GRT0335C1H430GA02#	01
				±5%	GRT0335C1H430JA02#	01
			47pF	±1%	GRT0335C1H470FA02#	01
			•	±2%	GRT0335C1H470GA02#	01
				±5%	GRT0335C1H470JA02#	01
			51pF	±1%	GRT0335C1H510FA02#	01
			•	±2%	GRT0335C1H510GA02#	01
				±5%	GRT0335C1H510JA02#	01
			56pF	±1%	GRT0335C1H560FA02#	01
				±2%	GRT0335C1H560GA02#	01
				±5%	GRT0335C1H560JA02#	01
			62pF	±1%	GRT0335C1H620FA02#	01
				±2%	GRT0335C1H620GA02#	<b>D1</b>
				±5%	GRT0335C1H620JA02#	<b>D1</b>
			68pF	±1%	GRT0335C1H680FA02#	D1
				±2%	GRT0335C1H680GA02#	D1

(→ 0.6×0.3mm)

(→ 0.6>	0.3mm،	)				
T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number	
0.33mm	50Vdc	COG	68pF	±5%	GRT0335C1H680JA02#	<b>D1</b>
			75pF	±1%	GRT0335C1H750FA02#	D1
				±2%	GRT0335C1H750GA02#	D1
				±5%	GRT0335C1H750JA02#	D1
			82pF	±1%	GRT0335C1H820FA02#	D1
				±2%	GRT0335C1H820GA02#	D1
				±5%	GRT0335C1H820JA02#	<b>D1</b>
			91pF	±1%	GRT0335C1H910FA02#	<b>D1</b>
				±2%	GRT0335C1H910GA02#	D1
				±5%	GRT0335C1H910JA02#	D1
			100pF	±1%	GRT0335C1H101FA02#	D1
				±2%	GRT0335C1H101GA02#	D1
				±5%	GRT0335C1H101JA02#	D1
			110pF	±1%	GRT0335C1H111FA02#	D1
				±2%	GRT0335C1H111GA02#	D1
				±5%	GRT0335C1H111JA02#	D1
			120pF	±1%	GRT0335C1H121FA02#	D1
				±2%	GRT0335C1H121GA02#	D1
				±5%	GRT0335C1H121JA02#	D1
			150pF	±1%	GRT0335C1H151FA02#	D1
				±2%	GRT0335C1H151GA02#	<b>D1</b>
				±5%	GRT0335C1H151JA02#	<b>D1</b>
			180pF	±1%	GRT0335C1H181FA02#	<b>D1</b>
				±2%	GRT0335C1H181GA02#	<b>111</b>
				±5%	GRT0335C1H181JA02#	D1
			220pF	±1%	GRT0335C1H221FA02#	D1
				±2%	GRT0335C1H221GA02#	D1
	05)//		0.10 5	±5%	GRT0335C1H221JA02#	<u> </u>
	25Vdc	COG	0.10pF	· ·	GRT0335C1ER10WA02#	<b>D1</b>
			0.11pF	±0.05pF ±0.1pF	GRT0335C1ER11WA02# GRT0335C1ER11BA02#	D1
			0.12pF		GRT0335C1ER12WA02#	01
			0.1201	±0.1pF	GRT0335C1ER12BA02#	01
			0.13pF	±0.05pF	GRT0335C1ER13WA02#	01
			о.10р.	±0.1pF	GRT0335C1ER13BA02#	01
			0.15pF	•	GRT0335C1ER15WA02#	01
				±0.1pF	GRT0335C1ER15BA02#	01
			0.16pF		GRT0335C1ER16WA02#	<u></u>
				±0.1pF	GRT0335C1ER16BA02#	<u></u>
			0.18pF	±0.05pF	GRT0335C1ER18WA02#	<u></u>
				±0.1pF	GRT0335C1ER18BA02#	01
			0.20pF	±0.05pF	GRT0335C1ER20WA02#	<u></u>
				±0.1pF	GRT0335C1ER20BA02#	<b>D1</b>
			0.22pF	±0.05pF	GRT0335C1ER22WA02#	<b>D1</b>
				±0.1pF	GRT0335C1ER22BA02#	<b>D1</b>
			0.24pF	±0.05pF	GRT0335C1ER24WA02#	01
				±0.1pF	GRT0335C1ER24BA02#	D1
			0.27pF	±0.05pF	GRT0335C1ER27WA02#	<b>D1</b>
				±0.1pF	GRT0335C1ER27BA02#	<b>D1</b>
			0.30pF	±0.05pF	GRT0335C1ER30WA02#	01
				±0.1pF	GRT0335C1ER30BA02#	D1
			0.33pF	±0.05pF	GRT0335C1ER33WA02#	01
				±0.1pF	GRT0335C1ER33BA02#	01
			0.36pF	±0.05pF	GRT0335C1ER36WA02#	D1

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number	
0.33mm	25Vdc	COG	0.36pF	±0.1pF	GRT0335C1ER36BA02#	01
			0.39pF	±0.05pF	GRT0335C1ER39WA02#	01
				±0.1pF	GRT0335C1ER39BA02#	01
			0.43pF	±0.05pF	GRT0335C1ER43WA02#	01
				±0.1pF	GRT0335C1ER43BA02#	01
			0.47pF	±0.05pF	GRT0335C1ER47WA02#	01
				±0.1pF	GRT0335C1ER47BA02#	01
			0.51pF	±0.05pF	GRT0335C1ER51WA02#	01
			·	±0.1pF	GRT0335C1ER51BA02#	01
			0.56pF	-	GRT0335C1ER56WA02#	01
			·	-	GRT0335C1ER56BA02#	01
			0.62pF		GRT0335C1ER62WA02#	01
				-	GRT0335C1ER62BA02#	01
			0.68pF		GRT0335C1ER68WA02#	01
			о.оор.		GRT0335C1ER68BA02#	01
			0.75pF		GRT0335C1ER75WA02#	01
			5.7 Jpi	-	GRT0335C1ER75BA02#	01
			0.82pF		GRT0335C1ER73BA02#	01
			о.о2рг	-	GRT0335C1ER82WA02#	01
			0.01pE			
			0.91pF		GRT0335C1ER91WA02#	D1
			10.5		GRT0335C1ER91BA02#	<u>01</u>
			1.0pF		GRT0335C1E1R0CA02#	回
			1.1pF		GRT0335C1E1R1CA02#	回
			1.2pF		GRT0335C1E1R2CA02#	回
			1.3pF		GRT0335C1E1R3CA02#	回
			1.5pF		GRT0335C1E1R5CA02#	01
			1.6pF		GRT0335C1E1R6CA02#	01
			1.8pF	±0.25pF	GRT0335C1E1R8CA02#	01
			2.0pF		GRT0335C1E2R0CA02#	<b>D1</b>
			2.2pF		GRT0335C1E2R2CA02#	01
			2.4pF	±0.25pF	GRT0335C1E2R4CA02#	D1
			2.7pF	±0.25pF	GRT0335C1E2R7CA02#	D1
			3.0pF	±0.25pF	GRT0335C1E3R0CA02#	D1
			3.3pF	±0.25pF	GRT0335C1E3R3CA02#	D1
			3.6pF	±0.25pF	GRT0335C1E3R6CA02#	D1
			3.9pF	±0.25pF	GRT0335C1E3R9CA02#	D1
			4.0pF	±0.25pF	GRT0335C1E4R0CA02#	<b>D1</b>
			4.3pF	±0.25pF	GRT0335C1E4R3CA02#	D1
			4.7pF	±0.25pF	GRT0335C1E4R7CA02#	<b>D1</b>
			5.0pF	±0.25pF	GRT0335C1E5R0CA02#	D1
			5.1pF	±0.5pF	GRT0335C1E5R1DA02#	<b>D1</b>
			5.6pF	±0.5pF	GRT0335C1E5R6DA02#	01
			6.0pF	±0.5pF	GRT0335C1E6R0DA02#	01
			6.2pF	±0.5pF	GRT0335C1E6R2DA02#	01
			6.8pF	±0.5pF	GRT0335C1E6R8DA02#	01
			7.0pF	±0.5pF	GRT0335C1E7R0DA02#	01
			7.5pF	±0.5pF	GRT0335C1E7R5DA02#	01
			8.0pF	±0.5pF	GRT0335C1E8R0DA02#	01
			8.2pF	±0.5pF	GRT0335C1E8R2DA02#	01
			9.0pF	±0.5pF	GRT0335C1E9R0DA02#	<b>D1</b>
			9.1pF	±0.5pF	GRT0335C1E9R1DA02#	01
			10pF	±1%	GRT0335C1E100FA02#	01
				±2%	GRT0335C1E100GA02#	01
				±5%	GRT0335C1E100JA02#	<b>D1</b>

(→ 0.6×0.3mm)

(→ 0.6>	0.3mm،	1)				
T max.	Rated Voltage	TC Code	Сар.	Tol.	Part Number	
0.33mm	25Vdc	COG	11pF	±1%	GRT0335C1E110FA02#	D1
				±2%	GRT0335C1E110GA02#	<b>D1</b>
				±5%	GRT0335C1E110JA02#	<b>D1</b>
			12pF	±1%	GRT0335C1E120FA02#	<b>D1</b>
				±2%	GRT0335C1E120GA02#	<b>D1</b>
				±5%	GRT0335C1E120JA02#	<b>D1</b>
			13pF	±1%	GRT0335C1E130FA02#	<b>D1</b>
				±2%	GRT0335C1E130GA02#	<b>D1</b>
				±5%	GRT0335C1E130JA02#	<b>1</b>
			15pF	±1%	GRT0335C1E150FA02#	D1
				±2%	GRT0335C1E150GA02#	D1
				±5%	GRT0335C1E150JA02#	D1
			16pF	±1%	GRT0335C1E160FA02#	D1
				±2%	GRT0335C1E160GA02#	D1
				±5%	GRT0335C1E160JA02#	D1
			18pF	±1%	GRT0335C1E180FA02#	D1
				±2%	GRT0335C1E180GA02#	<b>D1</b>
				±5%	GRT0335C1E180JA02#	<b>D1</b>
			20pF	±1%	GRT0335C1E200FA02#	<b>D1</b>
				±2%	GRT0335C1E200GA02#	D1
			22.5	±5%	GRT0335C1E200JA02#	D1
			22pF	±1%	GRT0335C1E220FA02#	D1
				±2% ±5%	GRT0335C1E220GA02# GRT0335C1E220JA02#	D1
			24pF	±1%	GRT0335C1E220JA02#	D1 D1
			Σπρι	±2%	GRT0335C1E240GA02#	01
				±5%	GRT0335C1E240JA02#	<b>D1</b>
			27pF	±1%	GRT0335C1E270FA02#	01
				±2%	GRT0335C1E270GA02#	<b>D1</b>
				±5%	GRT0335C1E270JA02#	<b>D1</b>
			30pF	±1%	GRT0335C1E300FA02#	D1
				±2%	GRT0335C1E300GA02#	D1
				±5%	GRT0335C1E300JA02#	D1
			33pF	±1%	GRT0335C1E330FA02#	D1
				±2%	GRT0335C1E330GA02#	D1
				±5%	GRT0335C1E330JA02#	<b>D1</b>
			36pF	±1%	GRT0335C1E360FA02#	D1
				±2%	GRT0335C1E360GA02#	
				±5%	GRT0335C1E360JA02#	<b>D1</b>
			39pF	±1%	GRT0335C1E390FA02#	<b>D1</b>
				±2%	GRT0335C1E390GA02#	<b>D1</b>
				±5%	GRT0335C1E390JA02#	D1
			43pF	±1%	GRT0335C1E430FA02#	<u>D1</u>
				±2%	GRT0335C1E430GA02#	D1
			47pF	±5% ±1%	GRT0335C1E430JA02# GRT0335C1E470FA02#	D1 D1
			-1 PF	±1% ±2%	GRT0335C1E470FA02#	01
				±5%	GRT0335C1E470JA02#	01
			51pF	±1%	GRT0335C1E510FA02#	D1
			11.5	±2%	GRT0335C1E510GA02#	01
				±5%	GRT0335C1E510JA02#	01
			56pF	±1%	GRT0335C1E560FA02#	01
				±2%	GRT0335C1E560GA02#	D1
				±5%	GRT0335C1E560JA02#	D1

т	Rated	тс				
max.	Voltage	Code	Cap.	Tol.	Part Number	
0.33mm	25Vdc	COG	62pF	±1%	GRT0335C1E620FA02#	D1
				±2%	GRT0335C1E620GA02#	<b>D1</b>
				±5%	GRT0335C1E620JA02#	01
			68pF	±1%	GRT0335C1E680FA02#	D1
				±2%	GRT0335C1E680GA02#	<b>D1</b>
				±5%	GRT0335C1E680JA02#	01
			75pF	±1%	GRT0335C1E750FA02#	
				±2%	GRT0335C1E750GA02#	DI
				±5%	GRT0335C1E750JA02#	<u>D1</u>
			82pF	±1%	GRT0335C1E820FA02#	<b>D1</b>
				±2%	GRT0335C1E820GA02#	<b>D1</b>
			0155	±5%	GRT0335C1E820JA02#	<b>1</b> 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
			91pF	±1% ±2%	GRT0335C1E910FA02#	<u>M</u>
					GRT0335C1E910GA02#	D1
			10055	±5%	GRT0335C1E910JA02# GRT0335C1E101FA02#	D1
			100pF	±1%	GRT0335C1E101FA02#	D1
				±2% ±5%	GRT0335C1E101GA02#	01
			110pE	±1%	GRT0335C1E101JA02#	01
			110pF	±1% ±2%	GRT0335C1E111FA02#	01
				±2 %	GRT0335C1E111GA02#	01
			150pF	±1%	GRT0335C1E1115A02#	01
			13061	±2%	GRT0335C1E151GA02#	01
				±5%	GRT0335C1E151JA02#	01
			180pF	±1%	GRT0335C1E181FA02#	01
			•	±2%	GRT0335C1E181GA02#	01
				±5%	GRT0335C1E181JA02#	œ
			220pF	±1%	GRT0335C1E221FA02#	œ
				±2%	GRT0335C1E221GA02#	01
				±5%	GRT0335C1E221JA02#	01
			270pF	±1%	GRT0335C1E271FA02#	01
				±2%	GRT0335C1E271GA02#	D1
				±5%	GRT0335C1E271JA02#	<b>D1</b>
			330pF	±1%	GRT0335C1E331FA02#	01
				±2%	GRT0335C1E331GA02#	D1
				±5%	GRT0335C1E331JA02#	D1
			390pF	±1%	GRT0335C1E391FA02#	01
				±2%	GRT0335C1E391GA02#	01
				±5%	GRT0335C1E391JA02#	D1
			470pF	±1%	GRT0335C1E471FA02#	01
				±2%	GRT0335C1E471GA02#	01
			= -	±5%	GRT0335C1E471JA02#	<b>1</b>
			560pF	±1%	GRT0335C1E561FA02#	D1
				±2%	GRT0335C1E561GA02#	<b>1</b>
				±5%	GRT0335C1E561JA02#	<b>1</b>
			680pF	±1%	GRT0335C1E681FA02#	<b>D1</b>
				±2%	GRT0335C1E681GA02#	D1
			020-5	±5%	GRT0335C1E681JA02#	D1
			820pF	±1%	GRT0335C1E821FA02#	D1
				±2% ±5%	GRT0335C1E821GA02# GRT0335C1E821JA02#	D1
			910pF	±5% ±1%	GRT0335C1E821JA02# GRT0335C1E911FA02#	01
			210hL	±1% ±2%	GRT0335C1E911FA02#	01
				±2 %	GRT0335C1E911JA02#	01
						تت

(→ 0.6×0.3mm)

T max.	Rated Voltage	TC Code	Сар.	Tol.	Part Number	
0.33mm	25Vdc	COG	1000pF	±1%	GRT0335C1E102FA02#	01
				±2%	GRT0335C1E102GA02#	01
				±5%	GRT0335C1E102JA02#	<b>D1</b>

<b>D1</b>	0
<b>D1</b>	
=	

#### 1.0×0.5mm

1.0×0.	5mm					
T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number	
0.55mm	100Vdc	COG	0.20pF	±0.1pF	GRT1555C2AR20BA02#	<b>D1</b>
			0.30pF	±0.1pF	GRT1555C2AR30BA02#	D1
			1.0pF	±0.25pF	GRT1555C2A1R0CA02#	<b>D1</b>
			1.1pF	±0.25pF	GRT1555C2A1R1CA02#	D1
			1.2pF	±0.25pF	GRT1555C2A1R2CA02#	D1
			1.3pF	±0.25pF	GRT1555C2A1R3CA02#	D1
			1.5pF	±0.25pF	GRT1555C2A1R5CA02#	D1
			1.6pF	±0.25pF	GRT1555C2A1R6CA02#	D1
			1.8pF	±0.25pF	GRT1555C2A1R8CA02#	<b>D1</b>
			2.0pF	±0.25pF	GRT1555C2A2R0CA02#	D1
			2.2pF	±0.25pF	GRT1555C2A2R2CA02#	D1
			2.4pF	±0.25pF	GRT1555C2A2R4CA02#	D1
			2.7pF	±0.25pF	GRT1555C2A2R7CA02#	D1
			3.0pF	±0.25pF	GRT1555C2A3R0CA02#	D1
			3.3pF	±0.25pF	GRT1555C2A3R3CA02#	<b>D1</b>
			3.6pF	±0.25pF	GRT1555C2A3R6CA02#	<b>D1</b>
			3.9pF	±0.25pF	GRT1555C2A3R9CA02#	<b>D1</b>
			4.0pF	±0.25pF	GRT1555C2A4R0CA02#	<b>D1</b>
			4.3pF	±0.25pF	GRT1555C2A4R3CA02#	<b>D1</b>
			4.7pF	±0.25pF	GRT1555C2A4R7CA02#	<b>D1</b>
			5.0pF	±0.25pF	GRT1555C2A5R0CA02#	D1
			5.1pF	±0.5pF	GRT1555C2A5R1DA02#	<b>D1</b>
			5.6pF	±0.5pF	GRT1555C2A5R6DA02#	D1
			6.0pF	±0.5pF	GRT1555C2A6R0DA02#	<b>D1</b>
			6.2pF	±0.5pF	GRT1555C2A6R2DA02#	<b>D1</b>
			6.8pF	±0.5pF	GRT1555C2A6R8DA02#	<b>D1</b>
			7.0pF	±0.5pF	GRT1555C2A7R0DA02#	D1
			7.5pF	±0.5pF	GRT1555C2A7R5DA02#	<b>D1</b>
			8.0pF	±0.5pF	GRT1555C2A8R0DA02#	<b>D1</b>
			8.2pF	±0.5pF	GRT1555C2A8R2DA02#	<b>D1</b>
			9.0pF	±0.5pF	GRT1555C2A9R0DA02#	<b>D1</b>
			9.1pF	±0.5pF	GRT1555C2A9R1DA02#	<b>D1</b>
			10pF	±5%	GRT1555C2A100JA02#	01
			12pF	±5%	GRT1555C2A120JA02#	<b>D1</b>
			15pF	±5%	GRT1555C2A150JA02#	<b>D1</b>
			18pF	±5%	GRT1555C2A180JA02#	<b>D1</b>
			22pF	±5%	GRT1555C2A220JA02#	<b>D1</b>
			27pF	±5%	GRT1555C2A270JA02#	<b>D1</b>
			33pF	±5%	GRT1555C2A330JA02#	<b>D1</b>
			39pF	±5%	GRT1555C2A390JA02#	01
			47pF	±5%	GRT1555C2A470JA02#	01
			56pF	±5%	GRT1555C2A560JA02#	<b>D1</b>
			68pF	±5%	GRT1555C2A680JA02#	D1
			82pF	±5%	GRT1555C2A820JA02#	D1
			100pF	±5%	GRT1555C2A101JA02#	<b>D1</b>
	50Vdc	COG	0.11pF	±0.1pF	GRT1555C1HR11BA02#	<b>D1</b>

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number	
.55mm	50Vdc	COG	0.12pF	±0.1pF	GRT1555C1HR12BA02#	D1
			0.13pF	±0.1pF	GRT1555C1HR13BA02#	<b>D1</b>
			0.15pF	±0.1pF	GRT1555C1HR15BA02#	<b>D1</b>
			0.16pF	±0.1pF	GRT1555C1HR16BA02#	<b>D1</b>
			0.18pF	±0.1pF	GRT1555C1HR18BA02#	01
			0.20pF	±0.1pF	GRT1555C1HR20BA02#	D1
			0.22pF	±0.1pF	GRT1555C1HR22BA02#	D1
			0.24pF	±0.1pF	GRT1555C1HR24BA02#	D1
			0.27pF	±0.1pF	GRT1555C1HR27BA02#	<b>D1</b>
			0.30pF	±0.1pF	GRT1555C1HR30BA02#	D1
			0.33pF	±0.1pF	GRT1555C1HR33BA02#	<b>D1</b>
			0.36pF	±0.1pF	GRT1555C1HR36BA02#	<b>D1</b>
			0.39pF	±0.1pF	GRT1555C1HR39BA02#	<b>D1</b>
			0.43pF	±0.1pF	GRT1555C1HR43BA02#	DI
			0.47pF	±0.1pF	GRT1555C1HR47BA02#	DI
			0.51pF	±0.1pF	GRT1555C1HR51BA02#	D1
			0.56pF		GRT1555C1HR56BA02#	
			0.62pF		GRT1555C1HR62BA02#	D1
			0.68pF		GRT1555C1HR68BA02#	D1
			0.75pF		GRT1555C1HR75BA02#	D1
			0.82pF	-	GRT1555C1HR82BA02#	<u>D1</u>
			0.91pF		GRT1555C1HR91BA02#	D1
			1.0pF		GRT1555C1H1R0CA02#	D1
			1.1pF		GRT1555C1H1R1CA02#	D1
			1.2pF		GRT1555C1H1R2CA02#	D1
			1.3pF 1.5pF		GRT1555C1H1R3CA02# GRT1555C1H1R5CA02#	01 01
			1.6pF		GRT1555C1H1R6CA02#	01
			1.8pF		GRT1555C1H1R8CA02#	01
			2.0pF		GRT1555C1H2R0CA02#	回
			2.2pF		GRT1555C1H2R2CA02#	回
			2.4pF		GRT1555C1H2R4CA02#	01
			2.7pF	±0.25pF	GRT1555C1H2R7CA02#	<b>1</b>
			3.0pF	±0.25pF	GRT1555C1H3R0CA02#	01
			3.3pF	±0.25pF	GRT1555C1H3R3CA02#	<b>D1</b>
			3.6pF	±0.25pF	GRT1555C1H3R6CA02#	<b>D1</b>
			3.9pF	±0.25pF	GRT1555C1H3R9CA02#	<b>D1</b>
			4.0pF	±0.25pF	GRT1555C1H4R0CA02#	<b>D1</b>
			4.3pF	±0.25pF	GRT1555C1H4R3CA02#	<b>1</b>
			4.7pF	±0.25pF	GRT1555C1H4R7CA02#	D1
			5.0pF	±0.25pF	GRT1555C1H5R0CA02#	D1
			5.1pF	±0.5pF	GRT1555C1H5R1DA02#	D1
			5.6pF	±0.5pF	GRT1555C1H5R6DA02#	<b>D1</b>
			6.0pF	±0.5pF	GRT1555C1H6R0DA02#	<b>D1</b>
			6.2pF	±0.5pF	GRT1555C1H6R2DA02#	<b>D1</b>
			6.8pF	±0.5pF	GRT1555C1H6R8DA02#	D1
			7.0pF	±0.5pF	GRT1555C1H7R0DA02#	
			7.5pF	±0.5pF	GRT1555C1H7R5DA02#	回
			8.0pF	±0.5pF	GRT1555C1H8R0DA02#	D1
			8.2pF	±0.5pF	GRT1555C1H8R2DA02#	D1
			9.0pF	±0.5pF	GRT1555C1H9R0DA02#	D1
			9.1pF	±0.5pF	GRT1555C1H9R1DA02#	<u>01</u>
			10pF	±1% ±2%	GRT1555C1H100FA02#	D1
				±∠70	GRT1555C1H100GA02#	D1

(→ 1.0>	0.5mm	1)				
T max.	Rated Voltage	TC Code	Сар.	Tol.	Part Number	
0.55mm	50Vdc	COG	10pF	±5%	GRT1555C1H100JA02#	D1
			11pF	±1%	GRT1555C1H110FA02#	D1
				±2%	GRT1555C1H110GA02#	D1
				±5%	GRT1555C1H110JA02#	D1
			12pF	±1%	GRT1555C1H120FA02#	D1
				±2%	GRT1555C1H120GA02#	D1
				±5%	GRT1555C1H120JA02#	D1
			13pF	±1%	GRT1555C1H130FA02#	D1
				±2%	GRT1555C1H130GA02#	D1
				±5%	GRT1555C1H130JA02#	D1
			15pF	±1%	GRT1555C1H150FA02#	D1
				±2%	GRT1555C1H150GA02#	D1
				±5%	GRT1555C1H150JA02#	D1
			16pF	±1%	GRT1555C1H160FA02#	D1
				±2%	GRT1555C1H160GA02#	D1
				±5%	GRT1555C1H160JA02#	D1
			18pF	±1%	GRT1555C1H180FA02#	D1
				±2%	GRT1555C1H180GA02#	D1
				±5%	GRT1555C1H180JA02#	D1
			20pF	±1%	GRT1555C1H200FA02#	D1
				±2%	GRT1555C1H200GA02#	D1
				±5%	GRT1555C1H200JA02#	D1
			22pF	±1%	GRT1555C1H220FA02#	D1
				±2%	GRT1555C1H220GA02#	D1
				±5%	GRT1555C1H220JA02#	<b>D1</b>
			24pF	±1%	GRT1555C1H240FA02#	
				±2%	GRT1555C1H240GA02#	DI .
				±5%	GRT1555C1H240JA02#	<b>D1</b>
			27pF	±1%	GRT1555C1H270FA02#	<u> </u>
				±2%	GRT1555C1H270GA02#	<b>D</b>
			20nF	±5%	GRT1555C1H270JA02#	<b>D1</b>
			30pF	±1% ±2%	GRT1555C1H300FA02# GRT1555C1H300GA02#	<u>D1</u>
				±2 %	GRT1555C1H300JA02#	<b>1 1 1 1 1 1 1 1 1 1</b>
			33pF	±1%	GRT1555C1H330FA02#	01
			33pi	±2%	GRT1555C1H330GA02#	01
				±5%	GRT1555C1H330JA02#	01
			36pF	±1%	GRT1555C1H360FA02#	<b>D1</b>
			σоμ.	±2%	GRT1555C1H360GA02#	01
				±5%	GRT1555C1H360JA02#	01
			39pF	±1%	GRT1555C1H390FA02#	01
				±2%	GRT1555C1H390GA02#	01
				±5%	GRT1555C1H390JA02#	01
			43pF	±1%	GRT1555C1H430FA02#	01
			-1	±2%	GRT1555C1H430GA02#	01
				±5%	GRT1555C1H430JA02#	01
			47pF	±1%	GRT1555C1H470FA02#	<u></u>
			•	±2%	GRT1555C1H470GA02#	01
				±5%	GRT1555C1H470JA02#	<b>D1</b>
			51pF	±1%	GRT1555C1H510FA02#	<b>D1</b>
				±2%	GRT1555C1H510GA02#	<b>D1</b>
				±5%	GRT1555C1H510JA02#	D1
			56pF	±1%	GRT1555C1H560FA02#	D1
				±2%	GRT1555C1H560GA02#	D1

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number	
0.55mm	50Vdc	COG	56pF	±5%	GRT1555C1H560JA02#	01
			62pF	±1%	GRT1555C1H620FA02#	<b>D1</b>
				±2%	GRT1555C1H620GA02#	<b>D1</b>
				±5%	GRT1555C1H620JA02#	<b>D1</b>
			68pF	±1%	GRT1555C1H680FA02#	01
				±2%	GRT1555C1H680GA02#	D1
				±5%	GRT1555C1H680JA02#	D1
			75pF	±1%	GRT1555C1H750FA02#	<b>D1</b>
				±2%	GRT1555C1H750GA02#	<b>D1</b>
				±5%	GRT1555C1H750JA02#	D1
			82pF	±1%	GRT1555C1H820FA02#	01
				±2%	GRT1555C1H820GA02#	<b>D1</b>
				±5%	GRT1555C1H820JA02#	<b>D1</b>
			91pF	±1%	GRT1555C1H910FA02#	D1
				±2%	GRT1555C1H910GA02#	D1
				±5%	GRT1555C1H910JA02#	D1
			100pF	±1%	GRT1555C1H101FA02#	D1
				±2%	GRT1555C1H101GA02#	<b>D1</b>
				±5%	GRT1555C1H101JA02#	<b>D1</b>
			110pF	±1%	GRT1555C1H111FA02#	01
				±2%	GRT1555C1H111GA02#	01
				±5%	GRT1555C1H111JA02#	D1
			120pF	±1%	GRT1555C1H121FA02#	<b>D1</b>
				±2%	GRT1555C1H121GA02#	01
				±5%	GRT1555C1H121JA02#	<b>D1</b>
			130pF	±1%	GRT1555C1H131FA02#	回
				±2%	GRT1555C1H131GA02#	回
			450.5	±5%	GRT1555C1H131JA02#	回
			150pF	±1%	GRT1555C1H151FA02#	D1
				±2%	GRT1555C1H151GA02#	<b>1</b>
			160-5	±5%	GRT1555C1H151JA02#	D1
			160pF	±1%	GRT1555C1H161FA02#	<b>1</b>
				±2% ±5%	GRT1555C1H161GA02# GRT1555C1H161JA02#	D1
			180pF	±1%	GRT1555C1H181FA02#	01
			100рі	±2%	GRT1555C1H181GA02#	01
				±5%	GRT1555C1H181JA02#	01
			200pF	±1%	GRT1555C1H201FA02#	01
			2006.	±2%	GRT1555C1H201GA02#	01
				±5%	GRT1555C1H201JA02#	01
			220pF	±1%	GRT1555C1H221FA02#	回
				±2%	GRT1555C1H221GA02#	01
				±5%	GRT1555C1H221JA02#	01
			240pF	±1%	GRT1555C1H241FA02#	01
				±2%	GRT1555C1H241GA02#	01
				±5%	GRT1555C1H241JA02#	01
			270pF	±1%	GRT1555C1H271FA02#	01
				±2%	GRT1555C1H271GA02#	01
				±5%	GRT1555C1H271JA02#	01
			300pF	±1%	GRT1555C1H301FA02#	01
				±2%	GRT1555C1H301GA02#	01
				±5%	GRT1555C1H301JA02#	01
			330pF	±1%	GRT1555C1H331FA02#	<b>D1</b>
				±2%	GRT1555C1H331GA02#	<b>D1</b>

(→ 1.0>	0.5mm	1)				
T max.	Rated Voltage	TC Code	Сар.	Tol.	Part Number	
0.55mm	50Vdc	COG	330pF	±5%	GRT1555C1H331JA02#	<b>D1</b>
			360pF	±1%	GRT1555C1H361FA02#	<b>D1</b>
				±2%	GRT1555C1H361GA02#	D1
				±5%	GRT1555C1H361JA02#	<b>D1</b>
			390pF	±1%	GRT1555C1H391FA02#	<b>D1</b>
				±2%	GRT1555C1H391GA02#	<b>D1</b>
				±5%	GRT1555C1H391JA02#	<b>D1</b>
			430pF	±1%	GRT1555C1H431FA02#	01
				±2%	GRT1555C1H431GA02#	<b>D1</b>
				±5%	GRT1555C1H431JA02#	<b>D1</b>
			470pF	±1%	GRT1555C1H471FA02#	D1
				±2%	GRT1555C1H471GA02#	<b>D1</b>
				±5%	GRT1555C1H471JA02#	D1
			510pF	±1%	GRT1555C1H511FA02#	<b>D1</b>
				±2%	GRT1555C1H511GA02#	D1
				±5%	GRT1555C1H511JA02#	D1
			560pF	±1%	GRT1555C1H561FA02#	D1
				±2%	GRT1555C1H561GA02#	D1
				±5%	GRT1555C1H561JA02#	D1
			620pF	±1%	GRT1555C1H621FA02#	D1
				±2%	GRT1555C1H621GA02#	D1
				±5%	GRT1555C1H621JA02#	D1
			680pF	±1%	GRT1555C1H681FA02#	<b>D1</b>
				±2%	GRT1555C1H681GA02#	D1
				±5%	GRT1555C1H681JA02#	D1
			750pF	±1%	GRT1555C1H751FA02#	D1
				±2%	GRT1555C1H751GA02#	<b>D1</b>
				±5%	GRT1555C1H751JA02#	D1
			820pF	±1%	GRT1555C1H821FA02#	D1
				±2%	GRT1555C1H821GA02#	D1
				±5%	GRT1555C1H821JA02#	<b>D1</b>
			910pF	±1%	GRT1555C1H911FA02#	<b>D1</b>
				±2%	GRT1555C1H911GA02#	D1
				±5%	GRT1555C1H911JA02#	<b>D1</b>
			1000pF	±1%	GRT1555C1H102FA02#	D1
				±2%	GRT1555C1H102GA02#	<b>D1</b>
				±5%	GRT1555C1H102JA02#	D1
	25Vdc	COG	10pF	±5%	GRT1555C1E100JA02#	D1
			12pF	±5%	GRT1555C1E120JA02#	D1
			15pF	±5%	GRT1555C1E150JA02#	<b>D1</b>
			18pF	±5%	GRT1555C1E180JA02#	D1
			22pF	±5%	GRT1555C1E220JA02#	<b>D1</b>
			27pF	±5%	GRT1555C1E270JA02#	<b>D1</b>
			33pF	±5%	GRT1555C1E330JA02#	D1
			39pF	±5%	GRT1555C1E390JA02#	01
			47pF	±5%	GRT1555C1E470JA02#	D1
			56pF	±5%	GRT1555C1E560JA02#	01
			68pF	±5%	GRT1555C1E680JA02#	<b>D1</b>
			82pF	±5%	GRT1555C1E820JA02#	<b>D1</b>
			100pF	±5%	GRT1555C1E101JA02#	<b>D1</b>
			120pF	±5%	GRT1555C1E121JA02#	01
			150pF	±5%	GRT1555C1E151JA02#	01
			180pF	±5%	GRT1555C1E181JA02#	01
			220pF	±1%	GRT1555C1E221FA02#	D1

T max.	Rated Voltage	TC Code	Сар.	Tol.	Part Number		
0.55mm	25Vdc	COG	220pF	±5%	GRT1555C1E221JA02#	01	
			270pF	±1%	GRT1555C1E271FA02#	01	
				±5%	GRT1555C1E271JA02#	01	
			330pF	±5%	GRT1555C1E331JA02#	01	
				390pF	±5%	GRT1555C1E391JA02#	<b>D1</b>
			470pF	±5%	GRT1555C1E471JA02#	01	
			560pF	±5%	GRT1555C1E561JA02#	01	
			680pF	±5%	GRT1555C1E681JA02#	01	
				820pF	±5%	GRT1555C1E821JA02#	01
			1000pF	±5%	GRT1555C1E102JA02#	<b>D1</b>	

#### 1.6×0.8mm

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number	
0.9mm	100Vdc	COG	120pF	±5%	GRT1885C2A121JA02#	D1
			150pF	±5%	GRT1885C2A151JA02#	<b>D1</b>
			180pF	±5%	GRT1885C2A181JA02#	<b>D1</b>
			220pF	±5%	GRT1885C2A221JA02#	<b>D1</b>
			270pF	±5%	GRT1885C2A271JA02#	<b>D1</b>
			330pF	±5%	GRT1885C2A331JA02#	<b>D1</b>
			390pF	±5%	GRT1885C2A391JA02#	<b>1</b>
			470pF	±5%	GRT1885C2A471JA02#	D1
			560pF	±5%	GRT1885C2A561JA02#	<b>1</b>
			680pF	±5%	GRT1885C2A681JA02#	D1
			820pF	±5%	GRT1885C2A821JA02#	D1
			1000pF	±5%	GRT1885C2A102JA02#	D1
			1200pF	±5%	GRT1885C2A122JA02#	D1
			1500pF	±5%	GRT1885C2A152JA02#	D1
	50Vdc	COG	1200pF	±5%	GRT1885C1H122JA02#	<b>D1</b>
			1500pF	±2%	GRT1885C1H152GA02#	<b>D1</b>
				±5%	GRT1885C1H152JA02#	<b>D1</b>
			1800pF	±5%	GRT1885C1H182JA02#	<b>D1</b>
			2200pF	±2%	GRT1885C1H222GA02#	<b>1</b>
				±5%	GRT1885C1H222JA02#	<b>1</b>
			2700pF	±5%	GRT1885C1H272JA02#	<b>1</b>
			3300pF	±5%	GRT1885C1H332JA02#	D1
			3900pF	±5%	GRT1885C1H392JA02#	D1
			4300pF	±5%	GRT1885C1H432JA02#	<b>D1</b>
			4700pF	±5%	GRT1885C1H472JA02#	<b>D1</b>
			5100pF	±5%	GRT1885C1H512JA02#	<b>D1</b>
			5600pF	±5%	GRT1885C1H562JA02#	<b>D1</b>
			6800pF	±5%	GRT1885C1H682JA02#	01
			8200pF	±5%	GRT1885C1H822JA02#	01
			10000pF	±5%	GRT1885C1H103JA02#	01
	25Vdc	COG	1200pF	±5%	GRT1885C1E122JA02#	01
			1500pF	±5%	GRT1885C1E152JA02#	D1
			4700pF	±5%	GRT1885C1E472JA02#	<b>D1</b>
			5600pF	±5%	GRT1885C1E562JA02#	<b>D1</b>
			6800pF	±5%	GRT1885C1E682JA02#	<b>D1</b>
			8200pF	±5%	GRT1885C1E822JA02#	01
			10000pF	±1%	GRT1885C1E103FA02#	01
				±5%	GRT1885C1E103JA02#	D1





#### 2.0×1.25mm

T max.	Rated Voltage	TC Code	Сар.	Tol.	Part Number	
0.6mm	25Vdc	COG	1800pF	±5%	GRT2165C1E182JA12#	D1
			2200pF	±5%	GRT2165C1E222JA12#	<b>D1</b>
0.7mm	100Vdc	COG	1800pF	±5%	GRT2165C2A182JA02#	<b>D1</b>
			2200pF	±5%	GRT2165C2A222JA02#	01
			2700pF	±5%	GRT2165C2A272JA02#	01
			3300pF	±5%	GRT2165C2A332JA02#	01
1.35mm	50Vdc	COG	18000pF	±5%	GRT21B5C1H183JA02#	Œ
			22000pF	±5%	GRT21B5C1H223JA02#	D1

#### 3.2×1.6mm

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number			
0.95mm	100Vdc	COG	3900pF	±5%	GRT3195C2A392JA02#	D1		
			4700pF	±5%	GRT3195C2A472JA02#	<b>D1</b>		
			5600pF	±5%	GRT3195C2A562JA02#	<b>D1</b>		
			6800pF	±5%	GRT3195C2A682JA02#	<b>D1</b>		
			8200pF	±5%	GRT3195C2A822JA02#	<b>D1</b>		
			10000pF	±5%	GRT3195C2A103JA02#	<b>D1</b>		
			18000pF	±5%	GRT3195C2A183JA02#	<b>D1</b>		
			22000pF	±5%	GRT3195C2A223JA02#	<b>D1</b>		
1.8mm	100Vdc	COG	0.10µF	±5%	GRT31C5C2A104JA12#	D1		
	50Vdc	COG	56000pF	±5%	GRT31C5C1H563JA02#	<b>D1</b>		
			68000pF	±1%	GRT31C5C1H683FA02#	<b>D1</b>		
				±5%	GRT31C5C1H683JA02#	<b>D1</b>		
			82000pF	±5%	GRT31C5C1H823JA02#	<b>D1</b>		
			0.10µF	±1%	GRT31C5C1H104FA02#	<b>D1</b>		
						±5%	GRT31C5C1H104JA02#	<b>D1</b>
	25Vdc	COG	0.10µF	±1%	GRT31C5C1E104FA02#	D1		
				±5%	GRT31C5C1E104JA02#	<b>D1</b>		
			0.12µF	±5%	GRT31C5C1E124JA02#	<b>D1</b>		
	16Vdc	COG	0.12µF	±5%	GRT31C5C1C124JA02#	D1		

## GRT Series High Dielectric Constant Type 🚟 🐯 Part Number List

#### 0.6×0.3mm

0.6×0.	3mm					
T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number	
0.33mm	35Vdc	X5R	0.10µF	±10%	GRT033R6YA104KE01#	<b>D1</b>
	25Vdc	X7R	150pF	±10%	GRT033R71E151KE01#	D1
			470pF	±10%	GRT033R71E471KE01#	D1
			1000pF	±10%	GRT033R71E102KE01#	<b>D1</b>
		X6S	150pF	±10%	GRT033C81E151KE01#	D1
			470pF	±10%	GRT033C81E471KE01#	D1
			1000pF	±10%	GRT033C81E102KE01#	<b>D1</b>
			0.10µF	±10%	GRT033C81E104KE01#	D1
		X5R	100pF	±10%	GRT033R61E101KE01#	D1
			150pF	±10%	GRT033R61E151KE01#	D1
			220pF	±10%	GRT033R61E221KE01#	D1
			330pF	±10%	GRT033R61E331KE01#	D1
			470pF	±10%	GRT033R61E471KE01#	D1
			680pF	±10%	GRT033R61E681KE01#	D1
			1000pF	±10%	GRT033R61E102KE01#	D1
			4700pF	±10%	GRT033R61E472KE01#	D1
			6800pF	±10%	GRT033R61E682KE01#	D1
			10000pF	±10%	GRT033R61E103KE01#	DI
			0.10µF	±10%	GRT033R61E104KE01#	D1
	16Vdc	X7S	0.10µF	±10%	GRT033C71C104KE01#	D1
		X6S	0.10µF	±10%	GRT033C81C104KE01#	<b>D1</b>
		X5R	10000pF	±10%	GRT033R61C103KE01#	D1
			15000pF	±10%	GRT033R61C153KE01#	D1
			22000pF	±10%	GRT033R61C223KE01#	D1
			33000pF	±10%	GRT033R61C333KE01#	D1
			47000pF	±10%	GRT033R61C473KE01#	D1
			68000pF	±10%	GRT033R61C683KE01#	D1
			0.10µF	±10%	GRT033R61C104KE01#	D1
	10Vdc	X7R	10000pF	±10%	GRT033R71A103KE01#	D1
		X7S	0.10µF	±10%	GRT033C71A104KE01#	D1
		X6S	0.10µF	±10%	GRT033C81A104KE01#	D1
		X5R	1500pF	±10%	GRT033R61A152KE01#	D1
			2200pF	±10%	GRT033R61A222KE01#	D1
			3300pF	±10%	GRT033R61A332KE01#	01
			4700pF	±10%	GRT033R61A472KE01#	01
			6800pF	±10%	GRT033R61A682KE01#	01
			10000pF	±10%	GRT033R61A103KE01#	<b>D1</b>
			15000pF	±10%	GRT033R61A153KE01#	D1
			22000pF	±10%	GRT033R61A223KE01#	D1
			33000pF	±10%	GRT033R61A333KE01#	<b>D1</b>
			47000pF	±10%	GRT033R61A473KE01#	DI
			68000pF	±10%	GRT033R61A683KE01#	<b>D1</b>
			0.10µF	±10%	GRT033R61A104KE01#	<b>1</b>
			0.22µF	±10%	GRT033R61A224KE01#	
	6.3Vdc	X7R	2200pF	±10%	GRT033R70J222KE01#	
			3300pF	±10%	GRT033R70J332KE01#	
			4700pF	±10%	GRT033R70J472KE01#	
			6800pF	±10%	GRT033R70J682KE01#	
			10000pF	±10%	GRT033R70J103KE01#	
		X7S	0.10µF	±10%	GRT033C70J104KE01#	
		X6S	2200pF	±10%	GRT033C80J222KE01#	
			3300pF	±10%	GRT033C80J332KE01#	D1

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number	
0.33mm	6.3Vdc	X6S	4700pF	±10%	GRT033C80J472KE01#	01
			6800pF	±10%	GRT033C80J682KE01#	<b>D1</b>
			10000pF	±10%	GRT033C80J103KE01#	01
			15000pF	±10%	GRT033C80J153KE01#	01
			22000pF	±10%	GRT033C80J223KE01#	01
			33000pF	±10%	GRT033C80J333KE01#	01
			47000pF	±10%	GRT033C80J473KE01#	01
			68000pF	±10%	GRT033C80J683KE01#	01
			0.10µF	±10%	GRT033C80J104KE01#	01
			0.22µF	±10%	GRT033C80J224KE01#	01
		X5R	10000pF	±10%	GRT033R60J103KE01#	<b>D1</b>
			15000pF	±10%	GRT033R60J153KE01#	<b>D1</b>
			22000pF	±10%	GRT033R60J223KE01#	<b>D1</b>
			33000pF	±10%	GRT033R60J333KE01#	<b>D1</b>
			47000pF	±10%	GRT033R60J473KE01#	D1
			68000pF	±10%	GRT033R60J683KE01#	D1
			82000pF	±10%	GRT033R60J823KE01#	D1
			0.10µF	±10%	GRT033R60J104KE01#	D1
			0.22µF	±10%	GRT033R60J224KE01#	<b>D1</b>
			0.33µF	±20%	GRT033R60J334ME01#	<b>D1</b>
			0.47µF	±10%	GRT033R60J474KE01#	01
	4Vdc	X6S	68000pF	±10%	GRT033C80G683KE01#	<b>D1</b>
			0.10µF	±10%	GRT033C80G104KE01#	<b>D1</b>
			0.22µF	±20%	GRT033C80G224ME01#	01
0.35mm	6.3Vdc	X5R	1.0µF	±20%	GRT033R60J105ME13#	<b>D1</b>
	4Vdc	X5R	1.0µF	±20%	GRT033R60G105ME13#	<b>D1</b>
0.39mm	10Vdc	X6S	1.0µF	±20%	GRT033C81A105ME13#	01
	6.3Vdc	X7T	1.0µF	±20%	GRT033D70J105ME13#	01
		X6S	1.0µF	±20%	GRT033C80J105ME13#	01
	4Vdc	X7T	1.0µF	±20%	GRT033D70G105ME13#	01
	2.5Vdc	X7T	1.0µF	±20%	GRT033D70E105ME18#	D1

#### 1.0×0.5mm

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number	
0.22mm	6.3Vdc	X6S	0.22µF	±10%	GRT152C80J224KE13#	01
		X5R	0.22µF	±10%	GRT152R60J224KE13#	01
	4Vdc	X6S	0.22µF	±10%	GRT152C80G224KE13#	01
0.33mm	10Vdc	X5R	1.0µF	±20%	GRT153R61A105ME13#	01
	6.3Vdc	X5R	1.0µF	±20%	GRT153R60J105ME13#	01
			2.2µF	±20%	GRT153R60J225ME13#	D1
0.55mm	50Vdc	X7R	220pF	±10%	GRT155R71H221KE01#	<b>D1</b>
			270pF	±10%	GRT155R71H271KE01#	<b>D1</b>
			330pF	±10%	GRT155R71H331KE01#	<b>D1</b>
			470pF	±10%	GRT155R71H471KE01#	01
			680pF	±10%	GRT155R71H681KE01#	<b>D1</b>
			820pF	±10%	GRT155R71H821KE01#	<b>D1</b>
			1000pF	±10%	GRT155R71H102KE01#	<b>D1</b>
			1500pF	±10%	GRT155R71H152KE01#	<b>D1</b>
			2200pF	±10%	GRT155R71H222KE01#	D1
			2700pF	±10%	GRT155R71H272KE01#	D1
			3300pF	±10%	GRT155R71H332KE01#	D1
				4700pF	±10%	GRT155R71H472KE01#

Part number # indicates the package specification code.

## GRT Series High Dielectric Constant Type 🚟 🐯 Part Number List

(→ 1.0>	0.5mm	1)				
T max.	Rated Voltage	TC Code	Сар.	Tol.	Part Number	
0.55mm	50Vdc	X7R	6800pF	±10%	GRT155R71H682KE01#	D1
			10000pF	±10%	GRT155R71H103KE01#	D1
			15000pF	±10%	GRT155R71H153KE01#	<b>D1</b>
			22000pF	±10%	GRT155R71H223KE01#	D1
			33000pF	±10%	GRT155R71H333KE01#	D1
			39000pF	±10%	GRT155R71H393KE01#	<u>D1</u>
			47000pF	±10%	GRT155R71H473KE01#	D1
			56000pF	±10%	GRT155R71H563KE01#	回
			68000pF	±10%	GRT155R71H683KE01#	<u>DI</u>
			82000pF	±10%	GRT155R71H823KE01#	D1
	251/1	VCC	0.10µF	±10%	GRT155R71H104KE01#	D1
	35Vdc	X6S	0.22µF	±10%	GRT155C8YA224KE01#	D1
		X5R	0.22µF 0.47µF	±10%	GRT155R6YA224KE01# GRT155R6YA474KE01#	01
	25Vdc	X7R	5600pF	±10%	GRT155R01A474RE01#	01
	25 Vuc	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	10000pF	±10%	GRT155R71E103KE01#	01
			22000pF	±10%	GRT155R71E223KE01#	01
			33000pF	±10%	GRT155R71E333KE01#	01
			47000pF	±10%	GRT155R71E473KE01#	01
			0.10µF	±10%	GRT155R71E104KE01#	01
		X6S	0.22µF	±10%	GRT155C81E224KE01#	<b>D1</b>
		X5R	0.22µF	±10%	GRT155R61E224KE01#	<u></u>
			0.47µF	±10%	GRT155R61E474KE01#	01
			1.0µF	±10%	GRT155R61E105KE01#	<u></u>
	16Vdc	X7R	10000pF	±10%	GRT155R71C103KE01#	01
			22000pF	±10%	GRT155R71C223KE01#	D1
			33000pF	±10%	GRT155R71C333KE01#	<b>D1</b>
			47000pF	±10%	GRT155R71C473KE01#	<b>D1</b>
			68000pF	±10%	GRT155R71C683KE01#	<b>D1</b>
			0.10µF	±10%	GRT155R71C104KE01#	D1
			0.22µF	±10%	GRT155R71C224KE01#	<b>D1</b>
		X6S	0.47µF	±10%	GRT155C81C474KE01#	D1
		X5R	0.22µF	±10%	GRT155R61C224KE01#	D1
			0.47µF	±10%	GRT155R61C474KE01#	D1
			1.0µF	±10%	GRT155R61C105KE01#	<b>D1</b>
	10Vdc	X7R	0.22µF	±10%	GRT155R71A224KE01#	D1
			0.47µF	±10%	GRT155R71A474KE01#	<b>D1</b>
		X6S	1.0µF	±10%	GRT155C81A105KE01#	<b>D1</b>
		X5R	0.22µF	±10%	GRT155R61A224KE01#	<b>1</b>
			0.33µF	±10%	GRT155R61A334KE01#	<u>D1</u>
			0.47µF	±10%	GRT155R61A474KE01#	<u>M</u>
			0.68µF	±10%	GRT155R61A684KE01#	D1
			1.0µF	±10%	GRT155R61A105KE01#	D1
	C 3)/4-	V7D	2.2µF	±10%	GRT155R61A225KE01#	D1
	6.3Vdc	X7R	22000pF	±10%	GRT155R70J223KE01#	D1
		X6S	1.0μF 0.22μF	±10%	GRT155R70J105KE01# GRT155C80J224KE01#	01
		703	0.22μF 0.33μF	±10%	GRT155C80J224KE01#	01
			0.33μF 0.47μF	±10%	GRT155C80J334KE01#	01
			0.47μl 0.68μF	±10%	GRT155C80J684KE01#	01
			1.0µF	±10%	GRT155C80J105KE01#	01
			2.2µF	±10%	GRT155C80J225KE01#	01
		X5R	0.22µF	±10%	GRT155R60J224KE01#	01
			0.33µF	±10%	GRT155R60J334KE01#	01

T max.	Rated Voltage	TC Code	Сар.	Tol.	Part Number	
0.55mm	6.3Vdc	X5R	0.47µF	±10%	GRT155R60J474KE01#	01
			0.68µF	±10%	GRT155R60J684KE01#	01
			1.0µF	±10%	GRT155R60J105KE01#	01
			2.2µF	±10%	GRT155R60J225KE01#	<b>D1</b>
	4Vdc	X7R	1.0µF	±10%	GRT155R70G105KE01#	01
		X6S	2.2µF	±10%	GRT155C80G225KE13#	<b>D1</b>
0.6mm	35Vdc	X5R	1.0µF	±10%	GRT155R6YA105KE13#	01
	25Vdc	X6S	1.0µF	±10%	GRT155C81E105KE13#	01
	16Vdc	X6S	1.0µF	±10%	GRT155C81C105KE13#	01
	10Vdc	X7S	1.0µF	±10%	GRT155C71A105KE13#	01
	6.3Vdc	X5R	4.7µF	±20%	GRT155R60J475ME13#	01
	4Vdc	X5R	4.7µF	±20%	GRT155R60G475ME13#	01
0.65mm	10Vdc	X5R	4.7µF	±20%	GRT155R61A475ME13#	01
	6.3Vdc	X6S	4.7µF	±20%	GRT155C80J475ME13#	01
	4Vdc	X6S	4.7µF	±20%	GRT155C80G475ME13#	01
0.7mm	25Vdc	X5R	2.2µF	±10%	GRT155R61E225KE13#	<b>D1</b>
	16Vdc	X6S	2.2µF	±10%	GRT155C81C225KE13#	<b>D1</b>
		X5R	2.2µF	±10%	GRT155R61C225KE13#	<b>D1</b>
	10Vdc	X7S	2.2µF	±10%	GRT155C71A225KE13#	01
		X6S	2.2µF	±10%	GRT155C81A225KE13#	01
	6.3Vdc	X7S	2.2µF	±10%	GRT155C70J225KE13#	<b>D1</b>
	2.5Vdc	X6S	10µF	±20%	GRT155C80E106ME13#	01

#### 1.6×0.8mm

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number	
0.9mm	100Vdc	X7R	3300pF	±10%	GRT188R72A332KE01#	<b>D1</b>
			10000pF	±10%	GRT188R72A103KE01#	D1
	50Vdc	X5R	1.0µF	±10%	GRT188R61H105KE13#	D1
	35Vdc	X6S	1.0µF	±10%	GRT188C8YA105KE13#	D1
		X5R	2.2µF	±10%	GRT188R6YA225KE13#	D1
	25Vdc	X7R	0.15µF	±10%	GRT188R71E154KE01#	<b>D1</b>
			0.22µF	±10%	GRT188R71E224KE01#	<b>D1</b>
			0.47µF	±10%	GRT188R71E474KE13#	<b>D1</b>
			1.0µF	±10%	GRT188R71E105KE13#	<b>D1</b>
	16Vdc	X7R	0.33µF	±10%	GRT188R71C334KE01#	<b>D1</b>
			0.47µF	±10%	GRT188R71C474KE01#	<b>1</b>
			1.0µF	±10%	GRT188R71C105KE13#	<b>D1</b>
	6.3Vdc	X5R	10μF	±20%	GRT188R60J106ME13#	<b>D1</b>
	4Vdc	X6S	1.0µF	±20%	GRT188C80G105ME01#	<b>D1</b>
			4.7µF	±10%	GRT188C80G475KE01#	01
			10µF	±20%	GRT188C80G106ME13#	01
		X5R	10µF	±20%	GRT188R60G106ME13#	01
0.95mm	25Vdc	X5R	4.7µF	±10%	GRT188R61E475KE13#	01
	16Vdc	X6S	4.7µF	±10%	GRT188C81C475KE13#	01
		X5R	4.7µF	±10%	GRT188R61C475KE13#	01
			10µF	±10%	GRT188R61C106KE13#	01
	10Vdc	X5R	10µF	±10%	GRT188R61A106KE13#	<b>D1</b>
	2.5Vdc	X5R	22µF	±20%	GRT188R60E226ME13#	<b>D1</b>
1.0mm	50Vdc	X5R	2.2µF	±10%	GRT188R61H225KE13#	<b>D1</b>
	35Vdc	X6S	2.2µF	±10%	GRT188C8YA225KE13#	D1
		X5R	4.7µF	±10%	GRT188R6YA475KE13#	01
	25Vdc	X7S	2.2µF	±10%	GRT188C71E225KE13#	<b>D</b>

Part number # indicates the package specification code.

### GRT Series High Dielectric Constant Type 🔚 🍪 Part Number List

#### (→ 1.6×0.8mm)

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number				
1.0mm	25Vdc	X6S	2.2µF	±10%	GRT188C81E225KE13#	<b>1</b>			
			4.7µF	±10%	GRT188C81E475KE13#	D1			
		X5R	10µF	±20%	GRT188R61E106ME13#	<b>1</b>			
	16Vdc	X7S	2.2µF	±10%	GRT188C71C225KE13#	01			
		X6S	10µF	±20%	GRT188C81C106ME13#	01			
	10Vdc	10Vdc X71	X7T	10µF	±20%	GRT188D71A106ME13#	01		
		X6S	10µF	±20%	GRT188C81A106ME13#	01			
		X5R	22µF	±20%	GRT188R61A226ME13#	01			
	6.3Vdc	X7T	10µF	±20%	GRT188D70J106ME13#	01			
					X6S	10µF	±20%	GRT188C80J106ME13#	01
						22µF	±20%	GRT188C80J226ME13#	01
		X5R	22µF	±20%	GRT188R60J226ME13#	01			
	4Vdc	X6S	22µF	±20%	GRT188C80G226ME13#	<b>D1</b>			

#### Сар. Part Number X6S ±10% GRT31MC81E155KE01# D1 1.25mm 25Vdc 1.5µF GRT31MC81E106KE01# D1 10µF ±10% X5R 1.5µF GRT31MR61E155KE01# D1 ±10% GRT31MC81C155KE01# 16Vdc X6S 1.5µF ±10% D1 6.8µF ±10% GRT31MC81C685KE01# D1 X5R 1.5µF ±10% GRT31MR61C155KE01# D1 6.8µF ±10% GRT31MR61C685KE01# D1 1.8mm 50Vdc 2.2µF ±10% GRT31CR71H225KE13# X7R $\overline{D1}$ X6S 1.5µF ±10% GRT31CC81H155KE01# D1 GRT31CC81H225KE01# **D1** 2.2µF +10% 1.5µF ±10% GRT31CR61H155KE01# D1 D1 GRT31CR61H106KE01# 10µF ±10% 35Vdc X6S 10µF ±10% GRT31CC8YA106KE01# D1 X5R GRT31CR6YA106KE01# D1 10µF ±10% 25Vdc X6S 10µF ±10% GRT31CC81E106KE01# D1 D1 X5R 3.3µF ±10% GRT31CR61E335KE01# 16Vdc X6S 22uF ±10% GRT31CC81C226KE01# **D1** 10Vdc X5R 47µF ±10% GRT31CR61A476KE13# D1 X6S ±10% GRT31CC80J476KE13# D1 6.3Vdc 47µF 15µF GRT31CR60J156KE01# D1

#### 2.0×1.25mm

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number	
0.95mm	16Vdc	X5R	3.3µF	±10%	GRT219R61C335KE01#	D1
	10Vdc	X6S	4.7µF	±10%	GRT219C81A475KE01#	D1
		X5R	3.3µF	±10%	GRT219R61A335KE01#	D1
1.35mm	100Vdc	X7R	47000pF	±10%	GRT21BR72A473KE01#	D1
	50Vdc	X7R	0.47µF	±10%	GRT21BR71H474KE01#	D1
			1.0µF	±10%	GRT21BR71H105KE01#	D1
	16Vdc	X7R	2.2µF	±10%	GRT21BR71C225KE01#	D1
1.4mm	50Vdc	X5R	4.7µF	±10%	GRT21BR61H475KE13#	D1
	35Vdc	X6S	4.7µF	±10%	GRT21BC8YA475KE13#	D1
	25Vdc	X7R	2.2µF	±10%	GRT21BR71E225KE13#	D1
		X6S	3.3µF	±10%	GRT21BC81E335KE13#	D1
	16Vdc	X7R	4.7µF	±10%	GRT21BR71C475KE13#	D1
		X6S	3.3µF	±10%	GRT21BC81C335KE13#	D1
	10Vdc	X7R	4.7µF	±10%	GRT21BR71A475KE13#	D1
		X5R	3.3µF	±10%	GRT21BR61A335KE13#	D1
	6.3Vdc	X5R	3.3µF	±10%	GRT21BR60J335KE13#	D1
1.45mm	50Vdc	X7S	4.7µF	±10%	GRT21BC71H475KE13#	01
	25Vdc	X7S	4.7µF	±10%	GRT21BC71E475KE13#	01
			10µF	±10%	GRT21BC71E106KE13#	01
		X5R	22µF	±20%	GRT21BR61E226ME13#	01
	16Vdc	X7S	10µF	±10%	GRT21BC71C106KE13#	01
		X5R	22µF	±20%	GRT21BR61C226ME13#	01
	10Vdc	X7T	22µF	±20%	GRT21BD71A226ME13#	<b>D1</b>
		X6S	22µF	±20%	GRT21BC81A226ME13#	<b>D1</b>
	6.3Vdc	X7T	22µF	±20%	GRT21BD70J226ME13#	01
		X5R	47µF	±20%	GRT21BR60J476ME13#	<b>D1</b>
	4Vdc	X6S	47µF	±20%	GRT21BC80G476ME13#	<b>D1</b>
		X5R	47µF	±20%	GRT21BR60G476ME13#	<b>D1</b>
	2.5Vdc	X6S	47µF	±20%	GRT21BC80E476ME13#	D1

#### 3.2×2.5mm

T max.	Rated Voltage	TC Code	Сар.	Tol.	Part Number	
1.5mm	25Vdc	X5R	6.8µF	±10%	GRT32NR61E685KE01#	<b>D1</b>
2.2mm	50Vdc	X6S	3.3µF	±10%	GRT32DC81H335KE01#	01
		X5R	3.3µF	±10%	GRT32DR61H335KE01#	01
	6.3Vdc	X5R	33µF	±20%	GRT32DR60J336ME01#	01
2.7mm	50Vdc	X7R	4.7µF	±10%	GRT32ER71H475KE01#	01
		X6S	4.7µF	±10%	GRT32EC81H475KE01#	01
	16Vdc	X6S	47µF	±10%	GRT32EC81C476KE13#	D1
				±20%	GRT32EC81C476ME13#	D1
	10Vdc	X6S	47µF	±10%	GRT32EC81A476KE13#	D1
	6.3Vdc	X7R	47µF	±10%	GRT32ER70J476KE13#	D1
		X7S	100µF	±20%	GRT32EC70J107ME13#	D1
		X5R	100µF	±20%	GRT32ER60J107ME13#	01
	4Vdc	X7S	100µF	±20%	GRT32EC70G107ME13#	D1

#### 3.2×1.6mm

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number	
0.95mm	35Vdc	X5R	10µF	±10%	GRT319R6YA106KE01#	<b>D1</b>
1.25mm	50Vdc	X6S	1.0µF	±10%	GRT31MC81H105KE01#	D1

Chip Multilayer Ceramic Capacitors for Automotive

### **GCM Series**







### Capacitor for automotive applications such as power train and safety equipment.

#### **Features**

1 Ideal for powertrains and safety devices in automotive.

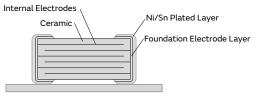
This product can be used for safety devices, such as the drive system control for engine ECU, air bags, and ABS. This product has cleared test conditions more severe than that of general products (GRM Series) even in temperature cycle and humidity load tests.

	General Purpose GRM Series Maximum operating temperature: <b>125°C</b>	GCM Series for Automotive Maximum operating temperature: <b>150°C</b>
Items	Test Method	Test Method
Temperature Cycle	Temperature Cycle: 5 cycles	Temperature Cycle: 100 cycles (1,000 cycles for AEC-Q200 conforming products)
Humidity Loading	Test temperature: 40±2°C Test humidity: 90 to 95%RH Test time: 500 hours	Test temperature: 85±2°C Test humidity: 80 to 85%RH Test time: 500 hours (1,000 hours for AEC-Q200 conforming products)

2 Can be used at 125°C and 150°C temperatures.

We also offer a lineup for 150°C that can be used in the engine room.

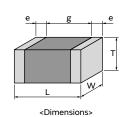
3 Sn plating is applied to the external electrodes; excellent solderability.



<Example of Structure>

#### Specifications

Size	0.6×0.3mm to 5.7×5.0mm
Rated Voltage	2.5Vdc to 1000Vdc
Capacitance	0.10pF to 100μF
Main Applications	Safety equipment, such as drive system control, air bags, and ABS of engine ECU



0.6×0.	3mm					
T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number	
0.33mm	50Vdc	COG	0.10pF	±0.05pF	GCM0335C1HR10WA16#	
			0.11pF	±0.05pF	GCM0335C1HR11WA16#	
				±0.1pF	GCM0335C1HR11BA16#	
			0.12pF	±0.05pF	GCM0335C1HR12WA16#	
				±0.1pF	GCM0335C1HR12BA16#	
			0.13pF	±0.05pF	GCM0335C1HR13WA16#	
				±0.1pF	GCM0335C1HR13BA16#	
			0.15pF	±0.05pF	GCM0335C1HR15WA16#	
				±0.1pF	GCM0335C1HR15BA16#	
			0.16pF	±0.05pF	GCM0335C1HR16WA16#	
				±0.1pF	GCM0335C1HR16BA16#	
			0.18pF	·	GCM0335C1HR18WA16#	
				•	GCM0335C1HR18BA16#	
			0.20pF	±0.05pF	GCM0335C1HR20WA16#	
				•	GCM0335C1HR20BA16#	
			0.22pF	-	GCM0335C1HR22WA16#	
					GCM0335C1HR22BA16#	
			0.24pF	±0.05pF	GCM0335C1HR24WA16#	
				•	GCM0335C1HR24BA16#	
			0.27pF	-	GCM0335C1HR27WA16#	
					GCM0335C1HR27BA16#	
			0.30pF	-	GCM0335C1HR30WA16#	
					GCM0335C1HR30BA16#	
			0.33pF		GCM0335C1HR33WA16#	
			0.06 =		GCM0335C1HR33BA16#	
			0.36pF	<u> </u>	GCM0335C1HR36WA16#	
			0.30-5		GCM0335C1HR36BA16#	
			0.39pF		GCM0335C1HR39WA16#	
			0.40pF		GCM0335C1HR39BA16# GCM0335C1HR40WA16#	
			0.40рг		GCM0335C1HR40BA16#	_
			0.43pF	•	GCM0335C1HR43WA16#	_
			0.45pi		GCM0335C1HR43BA16#	_
			0.47pF	-	GCM0335C1HR47WA16#	
			0.47 pi		GCM0335C1HR47BA16#	
			0.50pF	· ·	GCM0335C1HR50WA16#	
			0.50рі		GCM0335C1HR50BA16#	
			0.51pF		GCM0335C1HR51WA16#	
			о.о.ъ.	±0.1pF	GCM0335C1HR51BA16#	_
			0.56pF		GCM0335C1HR56WA16#	_
			о.оор.	±0.1pF	GCM0335C1HR56BA16#	
			0.60pF		GCM0335C1HR60WA16#	
				<u> </u>	GCM0335C1HR60BA16#	
			0.62pF		GCM0335C1HR62WA16#	_
			. F.	-	GCM0335C1HR62BA16#	_
			0.68pF	•	GCM0335C1HR68WA16#	
				-	GCM0335C1HR68BA16#	
			0.70pF	•	GCM0335C1HR70WA16#	
			·	· ·	GCM0335C1HR70BA16#	_
			0.75pF		GCM0335C1HR75WA16#	_
			·	-	GCM0335C1HR75BA16#	
			0.80pF	±0.05pF	GCM0335C1HR80WA16#	
-						

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number
0.33mm	50Vdc	COG	0.80pF	±0.1pF	GCM0335C1HR80BA16#
			0.82pF	±0.05pF	GCM0335C1HR82WA16#
				±0.1pF	GCM0335C1HR82BA16#
			0.90pF	±0.05pF	GCM0335C1HR90WA16#
				±0.1pF	GCM0335C1HR90BA16#
			0.91pF	±0.05pF	GCM0335C1HR91WA16#
				±0.1pF	GCM0335C1HR91BA16#
			1.0pF	±0.25pF	GCM0335C1H1R0CA16#
			1.1pF	±0.25pF	GCM0335C1H1R1CA16#
			1.2pF	±0.25pF	GCM0335C1H1R2CA16#
			1.3pF	±0.25pF	GCM0335C1H1R3CA16#
			1.5pF	±0.25pF	GCM0335C1H1R5CA16#
			1.6pF	±0.25pF	GCM0335C1H1R6CA16#
			1.8pF	±0.25pF	GCM0335C1H1R8CA16#
			2.0pF	±0.25pF	GCM0335C1H2R0CA16#
			2.2pF	±0.25pF	GCM0335C1H2R2CA16#
			2.4pF	±0.25pF	GCM0335C1H2R4CA16#
			2.7pF	±0.25pF	GCM0335C1H2R7CA16#
			3.0pF	±0.25pF	GCM0335C1H3R0CA16#
			3.3pF	±0.25pF	GCM0335C1H3R3CA16#
			3.6pF	±0.25pF	GCM0335C1H3R6CA16#
			3.9pF	±0.25pF	GCM0335C1H3R9CA16#
			4.0pF	±0.25pF	GCM0335C1H4R0CA16#
			4.3pF	±0.25pF	GCM0335C1H4R3CA16#
			4.7pF	±0.25pF	GCM0335C1H4R7CA16#
			5.0pF	±0.25pF	GCM0335C1H5R0CA16#
			5.1pF	±0.5pF	GCM0335C1H5R1DA16#
			5.6pF	±0.5pF	GCM0335C1H5R6DA16#
			6.0pF	±0.5pF	GCM0335C1H6R0DA16#
			6.2pF	±0.5pF	GCM0335C1H6R2DA16#
			6.8pF	±0.5pF	GCM0335C1H6R8DA16#
			7.0pF	±0.5pF	GCM0335C1H7R0DA16#
			7.5pF	±0.5pF	GCM0335C1H7R5DA16#
			8.0pF	±0.5pF	GCM0335C1H8R0DA16#
			8.2pF	±0.5pF	GCM0335C1H8R2DA16#
			9.0pF	±0.5pF	GCM0335C1H9R0DA16#
			9.1pF	±0.5pF	GCM0335C1H9R1DA16#
			10pF	±1%	GCM0335C1H100FA16#
				±2%	GCM0335C1H100GA16#
				±5%	GCM0335C1H100JA16#
			11pF	±1%	GCM0335C1H110FA16#
				±2%	GCM0335C1H110GA16#
				±5%	GCM0335C1H110JA16#
			12pF	±1%	GCM0335C1H120FA16#
				±2%	GCM0335C1H120GA16#
				±5%	GCM0335C1H120JA16#
			13pF	±1%	GCM0335C1H130FA16#
				±2%	GCM0335C1H130GA16#
				±5%	GCM0335C1H130JA16#
			15pF	±1%	GCM0335C1H150FA16#
				±2%	GCM0335C1H150GA16#
				±5%	GCM0335C1H150JA16#
			16pF	±1%	GCM0335C1H160FA16#
				±2%	GCM0335C1H160GA16#

(→ 0.6×0.3mm)

(→ 0.6×	0.3mm	1)			
T max.	Rated Voltage	TC Code	Сар.	Tol.	Part Number
0.33mm	50Vdc	COG	16pF	±5%	GCM0335C1H160JA16#
			18pF	±1%	GCM0335C1H180FA16#
				±2%	GCM0335C1H180GA16#
				±5%	GCM0335C1H180JA16#
			20pF	±1%	GCM0335C1H200FA16#
				±2%	GCM0335C1H200GA16#
				±5%	GCM0335C1H200JA16#
			22pF	±1%	GCM0335C1H220FA16#
				±2%	GCM0335C1H220GA16#
				±5%	GCM0335C1H220JA16#
			24pF	±1%	GCM0335C1H240FA16#
				±2%	GCM0335C1H240GA16#
				±5%	GCM0335C1H240JA16#
			27pF	±1%	GCM0335C1H270FA16#
				±2%	GCM0335C1H270GA16#
				±5%	GCM0335C1H270JA16#
			30pF	±1%	GCM0335C1H300FA16#
				±2%	GCM0335C1H300GA16#
				±5%	GCM0335C1H300JA16#
			33pF	±1%	GCM0335C1H330FA16#
				±2%	GCM0335C1H330GA16#
				±5%	GCM0335C1H330JA16#
			36pF	±1%	GCM0335C1H360FA16#
				±2%	GCM0335C1H360GA16#
				±5%	GCM0335C1H360JA16#
			39pF	±1%	GCM0335C1H390FA16#
				±2%	GCM0335C1H390GA16#
			40.5	±5%	GCM0335C1H390JA16#
			43pF	±1%	GCM0335C1H430FA16#
				±2% ±5%	GCM0335C1H430GA16#
			47pF	±1%	GCM0335C1H430JA16# GCM0335C1H470FA16#
			47 pr	±1%	GCM0335C1H470GA16#
				±5%	GCM0335C1H470JA16#
			51pF	±1%	GCM0335C1H510FA16#
			01p.	±2%	GCM0335C1H510GA16#
				±5%	GCM0335C1H510JA16#
			56pF	±1%	GCM0335C1H560FA16#
				±2%	GCM0335C1H560GA16#
				±5%	GCM0335C1H560JA16#
			62pF	±1%	GCM0335C1H620FA16#
			·	±2%	GCM0335C1H620GA16#
				±5%	GCM0335C1H620JA16#
			68pF	±1%	GCM0335C1H680FA16#
				±2%	GCM0335C1H680GA16#
				±5%	GCM0335C1H680JA16#
			75pF	±1%	GCM0335C1H750FA16#
				±2%	GCM0335C1H750GA16#
				±5%	GCM0335C1H750JA16#
			82pF	±1%	GCM0335C1H820FA16#
				±2%	GCM0335C1H820GA16#
				±5%	GCM0335C1H820JA16#
			91pF	±1%	GCM0335C1H910FA16#
				±2%	GCM0335C1H910GA16#

Т	Rated	тс	Cap.	Tol.	Part Number	
ax.	Voltage	Code				
3mm	50Vdc	COG	91pF	±5%	GCM0335C1H910JA16#	
			100pF	±1%	GCM0335C1H101FA16#	
				±2%	GCM0335C1H101GA16#	
				±5%	GCM0335C1H101JA16#	
	25Vdc	COG	0.10pF	±0.05pF	GCM0335C1ER10WA16#	
			0.11pF	±0.05pF	GCM0335C1ER11WA16#	
				±0.1pF	GCM0335C1ER11BA16#	
			0.12pF	±0.05pF	GCM0335C1ER12WA16#	
				±0.1pF	GCM0335C1ER12BA16#	
			0.13pF	±0.05pF	GCM0335C1ER13WA16#	
				±0.1pF	GCM0335C1ER13BA16#	
			0.15pF	±0.05pF	GCM0335C1ER15WA16#	
				±0.1pF	GCM0335C1ER15BA16#	
			0.16pF	±0.05pF	GCM0335C1ER16WA16#	
				±0.1pF	GCM0335C1ER16BA16#	
			0.18pF	±0.05pF	GCM0335C1ER18WA16#	
				±0.1pF	GCM0335C1ER18BA16#	
			0.20pF	±0.05pF	GCM0335C1ER20WA16#	
				±0.1pF	GCM0335C1ER20BA16#	
			0.22pF	±0.05pF	GCM0335C1ER22WA16#	
				±0.1pF	GCM0335C1ER22BA16#	
			0.24pF	±0.05pF	GCM0335C1ER24WA16#	
				±0.1pF	GCM0335C1ER24BA16#	
			0.27pF	±0.05pF	GCM0335C1ER27WA16#	
				±0.1pF	GCM0335C1ER27BA16#	
			0.30pF	±0.05pF	GCM0335C1ER30WA16#	
				±0.1pF	GCM0335C1ER30BA16#	
			0.33pF	±0.05pF	GCM0335C1ER33WA16#	
				±0.1pF	GCM0335C1ER33BA16#	
			0.36pF	±0.05pF	GCM0335C1ER36WA16#	
				±0.1pF	GCM0335C1ER36BA16#	
			0.39pF	±0.05pF	GCM0335C1ER39WA16#	
				±0.1pF	GCM0335C1ER39BA16#	
			0.40pF	±0.05pF	GCM0335C1ER40WA16#	
				±0.1pF	GCM0335C1ER40BA16#	
			0.43pF	±0.05pF	GCM0335C1ER43WA16#	
				±0.1pF	GCM0335C1ER43BA16#	
			0.47pF	±0.05pF	GCM0335C1ER47WA16#	
				±0.1pF	GCM0335C1ER47BA16#	
			0.50pF	±0.05pF	GCM0335C1ER50WA16#	
				±0.1pF	GCM0335C1ER50BA16#	
			0.51pF	±0.05pF	GCM0335C1ER51WA16#	
				±0.1pF	GCM0335C1ER51BA16#	
			0.56pF	±0.05pF	GCM0335C1ER56WA16#	
				±0.1pF	GCM0335C1ER56BA16#	
			0.60pF	±0.05pF	GCM0335C1ER60WA16#	
				±0.1pF	GCM0335C1ER60BA16#	
			0.62pF	±0.05pF	GCM0335C1ER62WA16#	
				±0.1pF	GCM0335C1ER62BA16#	
			0.68pF	±0.05pF	GCM0335C1ER68WA16#	
				±0.1pF	GCM0335C1ER68BA16#	
			0.70pF	±0.05pF	GCM0335C1ER70WA16#	
				±0.1pF	GCM0335C1ER70BA16#	
			0.75pF	±0.05pF	GCM0335C1ER75WA16#	

(→ 0.6×	0.3mm	1)			
T max.	Rated Voltage	TC Code	Сар.	Tol.	Part Number
0.33mm	25Vdc	COG	0.75pF	±0.1pF	GCM0335C1ER75BA16#
			0.80pF	±0.05pF	GCM0335C1ER80WA16#
				•	GCM0335C1ER80BA16#
			0.82pF	±0.05pF	GCM0335C1ER82WA16#
				•	GCM0335C1ER82BA16#
			0.90pF	±0.05pF	GCM0335C1ER90WA16#
				±0.1pF	GCM0335C1ER90BA16#
			0.91pF	±0.05pF	GCM0335C1ER91WA16#
				±0.1pF	GCM0335C1ER91BA16#
			1.0pF	±0.25pF	GCM0335C1E1R0CA16#
			1.1pF	±0.25pF	GCM0335C1E1R1CA16#
			1.2pF	±0.25pF	GCM0335C1E1R2CA16#
			1.3pF	±0.25pF	GCM0335C1E1R3CA16#
			1.5pF	±0.25pF	GCM0335C1E1R5CA16#
			1.6pF	±0.25pF	GCM0335C1E1R6CA16#
			1.8pF	±0.25pF	GCM0335C1E1R8CA16#
			2.0pF	±0.25pF	GCM0335C1E2R0CA16#
			2.2pF	±0.25pF	GCM0335C1E2R2CA16#
			2.4pF	±0.25pF	GCM0335C1E2R4CA16#
			2.7pF	±0.25pF	GCM0335C1E2R7CA16#
			3.0pF	±0.25pF	GCM0335C1E3R0CA16#
			3.3pF	±0.25pF	GCM0335C1E3R3CA16#
			3.6pF	±0.25pF	GCM0335C1E3R6CA16#
			3.9pF	±0.25pF	GCM0335C1E3R9CA16#
			4.0pF	±0.25pF	GCM0335C1E4R0CA16#
			4.3pF	±0.25pF	GCM0335C1E4R3CA16#
			4.7pF	±0.25pF	GCM0335C1E4R7CA16#
			5.0pF	±0.25pF	GCM0335C1E5R0CA16#
			5.1pF	±0.5pF	GCM0335C1E5R1DA16#
			5.6pF	±0.25pF	GCM0335C1E5R6CA16#
				±0.5pF	GCM0335C1E5R6DA16#
			6.0pF	±0.5pF	GCM0335C1E6R0DA16#
			6.2pF	±0.5pF	GCM0335C1E6R2DA16#
			6.8pF	±0.25pF	GCM0335C1E6R8CA16#
				±0.5pF	GCM0335C1E6R8DA16#
			7.0pF	±0.5pF	GCM0335C1E7R0DA16#
			7.5pF	±0.5pF	GCM0335C1E7R5DA16#
			8.0pF	±0.5pF	GCM0335C1E8R0DA16#
			8.2pF	±0.25pF	GCM0335C1E8R2CA16#
				±0.5pF	GCM0335C1E8R2DA16#
			9.0pF	±0.5pF	GCM0335C1E9R0DA16#
			9.1pF	±0.5pF	GCM0335C1E9R1DA16#
			10pF	±1%	GCM0335C1E100FA16#
				±2%	GCM0335C1E100GA16#
				±5%	GCM0335C1E100JA16#
			11pF	±1%	GCM0335C1E110FA16#
				±2%	GCM0335C1E110GA16#
				±5%	GCM0335C1E110JA16#
			12pF	±1%	GCM0335C1E120FA16#
				±2%	GCM0335C1E120GA16#
				±5%	GCM0335C1E120JA16#
			13pF	±1%	GCM0335C1E130FA16#
				±2%	GCM0335C1E130GA16#
				±5%	GCM0335C1E130JA16#

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number	
0.33mm	25Vdc	COG	15pF	±1%	GCM0335C1E150FA16#	
				±2%	GCM0335C1E150GA16#	
				±5%	GCM0335C1E150JA16#	
			16pF	±1%	GCM0335C1E160FA16#	
				±2%	GCM0335C1E160GA16#	
				±5%	GCM0335C1E160JA16#	
			18pF	±1%	GCM0335C1E180FA16#	
				±2%	GCM0335C1E180GA16#	
				±5%	GCM0335C1E180JA16#	
			20pF	±1%	GCM0335C1E200FA16#	
				±2%	GCM0335C1E200GA16#	
				±5%	GCM0335C1E200JA16#	
			22pF	±1%	GCM0335C1E220FA16#	
				±2%	GCM0335C1E220GA16#	
				±5%	GCM0335C1E220JA16#	
			24pF	±1%	GCM0335C1E240FA16#	
				±2%	GCM0335C1E240GA16#	
				±5%	GCM0335C1E240JA16#	
			27pF	±1%	GCM0335C1E270FA16#	
				±2%	GCM0335C1E270GA16#	
				±5%	GCM0335C1E270JA16#	
			30pF	±1%	GCM0335C1E300FA16#	
				±2%	GCM0335C1E300GA16#	
				±5%	GCM0335C1E300JA16#	
			33pF	±1%	GCM0335C1E330FA16#	_
				±2%	GCM0335C1E330GA16#	_
			26-5	±5%	GCM0335C1E330JA16#	
			36pF	±1% ±2%	GCM0335C1E360FA16#	
				±2 %	GCM0335C1E360GA16# GCM0335C1E360JA16#	
			39pF	±1%	GCM0335C1E390FA16#	
			3361	±2%	GCM0335C1E390GA16#	_
				±5%	GCM0335C1E390JA16#	_
			43pF	±1%	GCM0335C1E430FA16#	
				±2%	GCM0335C1E430GA16#	_
				±5%	GCM0335C1E430JA16#	
			47pF	±1%	GCM0335C1E470FA16#	
			ľ	±2%	GCM0335C1E470GA16#	
				±5%	GCM0335C1E470JA16#	
			51pF	±1%	GCM0335C1E510FA16#	
				±2%	GCM0335C1E510GA16#	
				±5%	GCM0335C1E510JA16#	
			56pF	±1%	GCM0335C1E560FA16#	
				±2%	GCM0335C1E560GA16#	
				±5%	GCM0335C1E560JA16#	
			62pF	±1%	GCM0335C1E620FA16#	
				±2%	GCM0335C1E620GA16#	
				±5%	GCM0335C1E620JA16#	
			68pF	±1%	GCM0335C1E680FA16#	
				±2%	GCM0335C1E680GA16#	
				±5%	GCM0335C1E680JA16#	
			75pF	±1%	GCM0335C1E750FA16#	
				±2%	GCM0335C1E750GA16#	
				±5%	GCM0335C1E750JA16#	

0.55mm 50Vdc

### GCM Series Temperature Compensating Type 🚟 🐯 Part Number List

(→ 0.6×0.3mm)

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number	
0.33mm	25Vdc	COG	82pF	±1%	GCM0335C1E820FA16#	
				±2%	GCM0335C1E820GA16#	
				±5%	GCM0335C1E820JA16#	
			91pF	±1%	GCM0335C1E910FA16#	
				±2%	GCM0335C1E910GA16#	
				±5%	GCM0335C1E910JA16#	
			100pF	±1%	GCM0335C1E101FA16#	
				±2%	GCM0335C1E101GA16#	
				±5%	GCM0335C1E101JA16#	

		±5%	GCM0335C

#### 1.0×0.5mm

T max.         Rated voltage         TC code         Cap.         Tol.         Part Number           0.55mm         50Vdc         COG         0.10pF         ±0.1pF         GCM1555C1HR10BA16#           0.12pF         ±0.1pF         GCM1555C1HR11BA16#         0.13pF         ±0.1pF         GCM1555C1HR13BA16#           0.15pF         ±0.1pF         GCM1555C1HR13BA16#         0.16pF         ±0.1pF         GCM1555C1HR15BA16#           0.16pF         ±0.1pF         GCM1555C1HR16BA16#         0.18pF         ±0.1pF         GCM1555C1HR20BA16#           0.20pF         ±0.1pF         GCM1555C1HR20BA16#         ±20%         GCM1555C1HR20BA16#           0.24pF         ±0.1pF         GCM1555C1HR20BA16#         ±0.0pF           0.30pF         ±0.1pF         GCM1555C1HR20BA16#           0.30pF         ±0.1pF         GCM1555C1HR30BA16#           0.30pF         ±0.1pF         GCM1555C1HR30BA16#           0.3pF         ±0.1pF         GCM1555C1HR30BA16#           0.3pF         ±0.1pF         GCM1555C1HR30BA16#           0.40pF         ±0.0pF         GCM1555C1HR40WA16#           ±0.1pF         GCM1555C1HR40WA16#           ±0.1pF         GCM1555C1HR50WA16#           ±0.1pF         GCM1555C1HR50BA16# <th>1.0×0.</th> <th>5mm</th> <th></th> <th></th> <th></th> <th></th> <th></th>	1.0×0.	5mm					
0.11pF ±0.1pF GCM1555C1HR11BA16# 0.12pF ±0.1pF GCM1555C1HR12BA16# 0.13pF ±0.1pF GCM1555C1HR13BA16# 0.15pF ±0.1pF GCM1555C1HR15BA16# 0.16pF ±0.1pF GCM1555C1HR16BA16# 0.18pF ±0.1pF GCM1555C1HR18BA16# 0.20pF ±0.1pF GCM1555C1HR20BA16# ±20% GCM1555C1HR20BA16# 0.24pF ±0.1pF GCM1555C1HR20BA16# 0.30pF ±0.05pF GCM1555C1HR30WA16# ±0.1pF GCM1555C1HR30BA16# 0.33pF ±0.1pF GCM1555C1HR30BA16# 0.33pF ±0.1pF GCM1555C1HR30BA16# 0.39pF ±0.1pF GCM1555C1HR30BA16# 0.40pF ±0.05pF GCM1555C1HR30BA16# 0.40pF ±0.05pF GCM1555C1HR30BA16# 0.40pF ±0.05pF GCM1555C1HR40WA16# ±0.1pF GCM1555C1HR40WA16# ±0.1pF GCM1555C1HR40BA16# 0.43pF ±0.1pF GCM1555C1HR40BA16# 0.50pF ±0.1pF GCM1555C1HR40BA16# 0.50pF ±0.05pF GCM1555C1HR40BA16# 0.50pF ±0.05pF GCM1555C1HR50WA16# ±0.1pF GCM1555C1HR50BA16# 0.56pF ±0.1pF GCM1555C1HR50BA16# 0.56pF ±0.1pF GCM1555C1HR50BA16# 0.56pF ±0.1pF GCM1555C1HR50BA16# 0.56pF ±0.1pF GCM1555C1HR60BA16# 0.60pF ±0.05pF GCM1555C1HR60BA16# 0.62pF ±0.1pF GCM1555C1HR60BA16# 0.68pF ±0.1pF GCM1555C1HR60BA16#	T max.			Cap.	Tol.	Part Number	
0.12pF ±0.1pF GCM1555C1HR13BA16# 0.13pF ±0.1pF GCM1555C1HR13BA16# 0.16pF ±0.1pF GCM1555C1HR15BA16# 0.18pF ±0.1pF GCM1555C1HR16BA16# 0.18pF ±0.1pF GCM1555C1HR18BA16# 0.20pF ±0.1pF GCM1555C1HR20BA16# ±20% GCM1555C1HR20BA16# 0.24pF ±0.1pF GCM1555C1HR2BA16# 0.30pF ±0.05pF GCM1555C1HR2BA16# 0.30pF ±0.05pF GCM1555C1HR30WA16# ±0.1pF GCM1555C1HR30WA16# 0.33pF ±0.1pF GCM1555C1HR30BA16# 0.33pF ±0.1pF GCM1555C1HR30BA16# 0.33pF ±0.1pF GCM1555C1HR30BA16# 0.39pF ±0.1pF GCM1555C1HR30BA16# 0.40pF ±0.05pF GCM1555C1HR40WA16# ±0.1pF GCM1555C1HR40BA16# 0.43pF ±0.1pF GCM1555C1HR40BA16# 0.47pF ±0.1pF GCM1555C1HR47BA16# ±0.25pF GCM1555C1HR47BA16# ±0.25pF GCM1555C1HR50WA16# ±0.1pF GCM1555C1HR50WA16# ±0.1pF GCM1555C1HR50BA16# 0.50pF ±0.1pF GCM1555C1HR50BA16# 0.50pF ±0.1pF GCM1555C1HR50BA16# 0.50pF ±0.1pF GCM1555C1HR60BA16# 0.50pF ±0.1pF GCM1555C1HR60BA16# 0.50pF ±0.1pF GCM1555C1HR60BA16# 0.60pF ±0.05pF GCM1555C1HR60BA16# 0.60pF ±0.1pF GCM1555C1HR60BA16# 0.62pF ±0.1pF GCM1555C1HR60BA16#	0.55mm	50Vdc	COG	0.10pF	±0.1pF	GCM1555C1HR10BA16#	
0.13pF ±0.1pF GCM1555C1HR13BA16# 0.15pF ±0.1pF GCM1555C1HR15BA16# 0.16pF ±0.1pF GCM1555C1HR16BA16# 0.18pF ±0.1pF GCM1555C1HR18BA16# 0.20pF ±0.1pF GCM1555C1HR20BA16# ±20% GCM1555C1HR20BA16# 0.22pF ±0.1pF GCM1555C1HR22BA16# 0.30pF ±0.0pF GCM1555C1HR24BA16# 0.30pF ±0.0pF GCM1555C1HR30WA16# ±0.1pF GCM1555C1HR30BA16# 0.33pF ±0.1pF GCM1555C1HR30BA16# 0.33pF ±0.1pF GCM1555C1HR30BA16# 0.39pF ±0.1pF GCM1555C1HR30BA16# 0.40pF ±0.0pF GCM1555C1HR30BA16# 0.40pF ±0.0pF GCM1555C1HR40WA16# ±0.1pF GCM1555C1HR40WA16# ±0.1pF GCM1555C1HR40BA16# 0.43pF ±0.1pF GCM1555C1HR40BA16# 0.47pF ±0.1pF GCM1555C1HR40BA16# ±0.25pF GCM1555C1HR50WA16# ±0.25pF GCM1555C1HR50WA16# ±0.25pF GCM1555C1HR50WA16# ±0.1pF GCM1555C1HR50CA16# 0.50pF ±0.1pF GCM1555C1HR50BA16# 0.50pF ±0.1pF GCM1555C1HR50BA16# 0.50pF ±0.1pF GCM1555C1HR60BA16# 0.60pF ±0.05pF GCM1555C1HR60BA16# 0.60pF ±0.05pF GCM1555C1HR60BA16# 0.62pF ±0.1pF GCM1555C1HR60BA16#				0.11pF	±0.1pF	GCM1555C1HR11BA16#	
0.15pF ±0.1pF GCM1555C1HR16BA16# 0.16pF ±0.1pF GCM1555C1HR16BA16# 0.18pF ±0.1pF GCM1555C1HR18BA16# 0.20pF ±0.1pF GCM1555C1HR20BA16# ±20% GCM1555C1HR20BA16# 0.24pF ±0.1pF GCM1555C1HR22BA16# 0.30pF ±0.05pF GCM1555C1HR24BA16# 0.30pF ±0.05pF GCM1555C1HR30BA16# 0.33pF ±0.1pF GCM1555C1HR30BA16# 0.33pF ±0.1pF GCM1555C1HR30BA16# 0.33pF ±0.1pF GCM1555C1HR30BA16# 0.39pF ±0.1pF GCM1555C1HR30BA16# 0.40pF ±0.05pF GCM1555C1HR30BA16# 0.40pF ±0.05pF GCM1555C1HR40WA16# ±0.1pF GCM1555C1HR40WA16# 0.47pF ±0.1pF GCM1555C1HR40BA16# 0.47pF ±0.1pF GCM1555C1HR40BA16# 0.50pF ±0.05pF GCM1555C1HR50BA16# ±0.25pF GCM1555C1HR50BA16# ±0.25pF GCM1555C1HR50BA16# 0.50pF ±0.1pF GCM1555C1HR50BA16# 0.50pF ±0.1pF GCM1555C1HR50BA16# 0.50pF ±0.1pF GCM1555C1HR50BA16# 0.50pF ±0.1pF GCM1555C1HR50BA16# 0.50pF ±0.1pF GCM1555C1HR60BA16# 0.60pF ±0.05pF GCM1555C1HR60BA16# 0.62pF ±0.1pF GCM1555C1HR60BA16#				0.12pF	±0.1pF	GCM1555C1HR12BA16#	
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±0.25pF GCM1555C1HR47CA16#  0.50pF ±0.05pF GCM1555C1HR50WA16#  ±0.1pF GCM1555C1HR50BA16#  ±0.25pF GCM1555C1HR50CA16#  0.51pF ±0.1pF GCM1555C1HR51BA16#  0.56pF ±0.1pF GCM1555C1HR56BA16#  0.60pF ±0.05pF GCM1555C1HR60WA16#  ±0.1pF GCM1555C1HR60BA16#  0.62pF ±0.1pF GCM1555C1HR62BA16#  0.68pF ±0.1pF GCM1555C1HR62BA16#				0.43pF	±0.1pF	GCM1555C1HR43BA16#	
0.50pF ±0.05pF GCM1555C1HR50WA16# ±0.1pF GCM1555C1HR50BA16# ±0.25pF GCM1555C1HR50CA16#  0.51pF ±0.1pF GCM1555C1HR51BA16#  0.56pF ±0.1pF GCM1555C1HR56BA16#  0.60pF ±0.05pF GCM1555C1HR60WA16# ±0.1pF GCM1555C1HR60BA16#  0.62pF ±0.1pF GCM1555C1HR68BA16#  0.68pF ±0.1pF GCM1555C1HR68BA16#				0.47pF	±0.1pF	GCM1555C1HR47BA16#	
±0.1pF GCM1555C1HR50BA16# ±0.25pF GCM1555C1HR50CA16# 0.51pF ±0.1pF GCM1555C1HR51BA16# 0.56pF ±0.1pF GCM1555C1HR56BA16# 0.60pF ±0.05pF GCM1555C1HR60WA16# ±0.1pF GCM1555C1HR60BA16# 0.62pF ±0.1pF GCM1555C1HR62BA16# 0.68pF ±0.1pF GCM1555C1HR68BA16#					±0.25pF	GCM1555C1HR47CA16#	
±0.25pF GCM1555C1HR50CA16#  0.51pF ±0.1pF GCM1555C1HR51BA16#  0.56pF ±0.1pF GCM1555C1HR56BA16#  0.60pF ±0.05pF GCM1555C1HR60WA16#  ±0.1pF GCM1555C1HR60BA16#  0.62pF ±0.1pF GCM1555C1HR62BA16#  0.68pF ±0.1pF GCM1555C1HR68BA16#				0.50pF	±0.05pF	GCM1555C1HR50WA16#	
0.51pF ±0.1pF GCM1555C1HR51BA16# 0.56pF ±0.1pF GCM1555C1HR56BA16# 0.60pF ±0.05pF GCM1555C1HR60WA16# ±0.1pF GCM1555C1HR60BA16# 0.62pF ±0.1pF GCM1555C1HR62BA16# 0.68pF ±0.1pF GCM1555C1HR68BA16#					±0.1pF	GCM1555C1HR50BA16#	
0.56pF ±0.1pF GCM1555C1HR56BA16# 0.60pF ±0.05pF GCM1555C1HR60WA16# ±0.1pF GCM1555C1HR60BA16# 0.62pF ±0.1pF GCM1555C1HR62BA16# 0.68pF ±0.1pF GCM1555C1HR68BA16#					±0.25pF	GCM1555C1HR50CA16#	
0.60pF ±0.05pF GCM1555C1HR60WA16# ±0.1pF GCM1555C1HR60BA16# 0.62pF ±0.1pF GCM1555C1HR62BA16# 0.68pF ±0.1pF GCM1555C1HR68BA16#				0.51pF	±0.1pF	GCM1555C1HR51BA16#	
±0.1pF GCM1555C1HR60BA16#  0.62pF ±0.1pF GCM1555C1HR62BA16#  0.68pF ±0.1pF GCM1555C1HR68BA16#				0.56pF	±0.1pF	GCM1555C1HR56BA16#	
0.62pF ±0.1pF <b>GCM1555C1HR62BA16#</b> 0.68pF ±0.1pF <b>GCM1555C1HR68BA16#</b>				0.60pF	±0.05pF	GCM1555C1HR60WA16#	
0.68pF ±0.1pF <b>GCM1555C1HR68BA16#</b>					±0.1pF	GCM1555C1HR60BA16#	
				0.62pF	±0.1pF	GCM1555C1HR62BA16#	
0.70pF ±0.05pF <b>GCM1555C1HR70WA16#</b>				0.68pF	±0.1pF	GCM1555C1HR68BA16#	
				0.70pF	±0.05pF	GCM1555C1HR70WA16#	
±0.1pF <b>GCM1555C1HR70BA16#</b>					±0.1pF	GCM1555C1HR70BA16#	
0.75pF ±0.1pF <b>GCM1555C1HR75BA16#</b>				0.75pF	±0.1pF	GCM1555C1HR75BA16#	
±0.25pF GCM1555C1HR75CA16#					±0.25pF	GCM1555C1HR75CA16#	
0.80pF ±0.05pF <b>GCM1555C1HR80WA16#</b>				0.80pF	-		
±0.1pF   GCM1555C1HR80BA16#					•		
0.82pF ±0.1pF <b>GCM1555C1HR82BA16#</b>					•		
0.90pF ±0.05pF <b>GCM1555C1HR90WA16#</b>				0.90pF	-		
±0.1pF   GCM1555C1HR90BA16#							
0.91pF ±0.1pF   <b>GCM1555C1HR91BA16#</b>				0.91pF	±0.1pF	GCM1555C1HR91BA16#	

ГС ode	Cap.	Tol.	Part Number	
0G	1.0pF	±0.1pF	GCM1555C1H1R0BA16#	
		±0.25pF	GCM1555C1H1R0CA16#	
		±5%	GCM1555C1H1R0JA16#	
	1.1pF	±0.1pF	GCM1555C1H1R1BA16#	
		±0.25pF	GCM1555C1H1R1CA16#	
	1.2pF	±0.1pF	GCM1555C1H1R2BA16#	
		±0.25pF	GCM1555C1H1R2CA16#	
	1.3pF	±0.1pF	GCM1555C1H1R3BA16#	
		±0.25pF	GCM1555C1H1R3CA16#	
	1.4pF	±0.1pF	GCM1555C1H1R4BA16#	
		±0.25pF	GCM1555C1H1R4CA16#	
	1.5pF	±0.05pF	GCM1555C1H1R5WA16#	
		±0.1pF	GCM1555C1H1R5BA16#	
		±0.25pF	GCM1555C1H1R5CA16#	
		±5%	GCM1555C1H1R5JA16#	
	1.6pF	±0.05pF	GCM1555C1H1R6WA16#	
		±0.1pF	GCM1555C1H1R6BA16#	
		±0.25pF	GCM1555C1H1R6CA16#	
	1.7pF	±0.1pF	GCM1555C1H1R7BA16#	
		±0.25pF	GCM1555C1H1R7CA16#	
	1.8pF	±0.05pF	GCM1555C1H1R8WA16#	
		±0.1pF	GCM1555C1H1R8BA16#	
		±0.25pF	GCM1555C1H1R8CA16#	
	1.9pF	±0.1pF	GCM1555C1H1R9BA16#	
	•	±0.25pF	GCM1555C1H1R9CA16#	
	2.0pF	±0.1pF	GCM1555C1H2R0BA16#	
	•	±0.25pF	GCM1555C1H2R0CA16#	
	2.1pF	±0.1pF	GCM1555C1H2R1BA16#	
	•		GCM1555C1H2R1CA16#	
	2.2pF		GCM1555C1H2R2WA16#	
		±0.1pF	GCM1555C1H2R2BA16#	
			GCM1555C1H2R2CA16#	
	2.3pF	±0.1pF	GCM1555C1H2R3BA16#	
	2.00.	_ •	GCM1555C1H2R3CA16#	
	2.4pF	±0.1pF	GCM1555C1H2R4BA16#	
	2.4ρι		GCM1555C1H2R4CA16#	
	2.5pF	±0.1pF	GCM1555C1H2R5BA16#	
	2.561		GCM1555C1H2R5CA16#	
	2.6pF	±0.25pi	GCM1555C1H2R6BA16#	
	2.0pi	±0.25pF	GCM1555C1H2R6CA16#	
	2.7pF	±0.25pr	GCM1555C1H2R7WA16#	
	2.7 με	<u> </u>	GCM1555C1H2R7BA16#	
		±0.1pF		
	2.0-5		GCM1555C1H2R7CA16#	
	2.8pF	±0.1pF	GCM1555C1H2R8BA16#	
	20.5	±0.25pF		
	2.9pF	±0.1pF	GCM1555C1H2R9BA16#	
	22 -	±0.25pF	GCM1555C1H2R9CA16#	
	3.0pF	±0.1pF	GCM1555C1H3R0BA16#	
	21 -	±0.25pF	GCM1555C1H3R0CA16#	
	3.1pF	±0.1pF	GCM1555C1H3R1BA16#	
		-	GCM1555C1H3R1CA16#	
	3.2pF	±0.1pF	GCM1555C1H3R2BA16#	
		±0.25pF		
	3.3pF	±0.1pF	GCM1555C1H3R3BA16#	
	Part num	nber#indio	cates the package specification	code.

(→ 1.0×0.5mm)

(→ 1.0×	0.5mm	)			
T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number
0.55mm	50Vdc	COG	3.3pF	±0.25pF	GCM1555C1H3R3CA16#
				±2%	GCM1555C1H3R3GA16#
			3.4pF	±0.1pF	GCM1555C1H3R4BA16#
				±0.25pF	GCM1555C1H3R4CA16#
			3.5pF	±0.1pF	GCM1555C1H3R5BA16#
				±0.25pF	GCM1555C1H3R5CA16#
			3.6pF	±0.1pF	GCM1555C1H3R6BA16#
				±0.25pF	GCM1555C1H3R6CA16#
			3.7pF	±0.25pF	GCM1555C1H3R7CA16#
			3.8pF	±0.25pF	GCM1555C1H3R8CA16#
			3.9pF	±0.1pF	GCM1555C1H3R9BA16#
				±0.25pF	GCM1555C1H3R9CA16#
			4.0pF	±0.1pF	GCM1555C1H4R0BA16#
				±0.25pF	GCM1555C1H4R0CA16#
				±2%	GCM1555C1H4R0GA16#
				±5%	GCM1555C1H4R0JA16#
			4.1pF	±0.25pF	GCM1555C1H4R1CA16#
			4.2pF	±0.1pF	GCM1555C1H4R2BA16#
				±0.25pF	GCM1555C1H4R2CA16#
			4.3pF	±0.1pF	GCM1555C1H4R3BA16#
				±0.25pF	GCM1555C1H4R3CA16#
			4.4pF	±0.25pF	GCM1555C1H4R4CA16#
			4.5pF	±0.25pF	GCM1555C1H4R5CA16#
			4.6pF	±0.25pF	GCM1555C1H4R6CA16#
			4.7pF	±0.05pF	GCM1555C1H4R7WA16#
				±0.1pF	GCM1555C1H4R7BA16#
				±0.25pF	GCM1555C1H4R7CA16#
			4.8pF	±0.25pF	GCM1555C1H4R8CA16#
			4.9pF	±0.25pF	GCM1555C1H4R9CA16#
			5.0pF	±0.1pF	GCM1555C1H5R0BA16#
				±0.25pF	GCM1555C1H5R0CA16#
				±1%	GCM1555C1H5R0FA16#
			5.1pF	±0.1pF	GCM1555C1H5R1BA16#
				±0.25pF	GCM1555C1H5R1CA16#
				±0.5pF	GCM1555C1H5R1DA16#
				±1%	GCM1555C1H5R1FA16#
			5.2pF	±0.25pF	GCM1555C1H5R2CA16#
				±0.5pF	GCM1555C1H5R2DA16#
			5.3pF	±0.05pF	GCM1555C1H5R3WA16#
				±0.5pF	GCM1555C1H5R3DA16#
			5.4pF	±0.5pF	GCM1555C1H5R4DA16#
			5.5pF	±0.05pF	GCM1555C1H5R5WA16#
				±0.5pF	GCM1555C1H5R5DA16#
			5.6pF	±0.1pF	GCM1555C1H5R6BA16#
				±0.25pF	GCM1555C1H5R6CA16#
				±0.5pF	GCM1555C1H5R6DA16#
			5.7pF	±0.5pF	GCM1555C1H5R7DA16#
			5.8pF	±0.5pF	GCM1555C1H5R8DA16#
			5.9pF	±0.5pF	GCM1555C1H5R9DA16#
			6.0pF	±0.1pF	GCM1555C1H6R0BA16#
				-	GCM1555C1H6R0CA16#
				±0.5pF	GCM1555C1H6R0DA16#
				±1%	GCM1555C1H6R0FA16#
			6.1pF	±0.5pF	GCM1555C1H6R1DA16#

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number	
0.55mm	50Vdc	COG	6.2pF	±0.1pF	GCM1555C1H6R2BA16#	
				±0.25pF	GCM1555C1H6R2CA16#	
				±0.5pF	GCM1555C1H6R2DA16#	
			6.3pF	±0.5pF	GCM1555C1H6R3DA16#	
			6.4pF	±0.5pF	GCM1555C1H6R4DA16#	
			6.5pF	±0.05pF	GCM1555C1H6R5WA16#	
				±0.5pF	GCM1555C1H6R5DA16#	
			6.6pF	±0.5pF	GCM1555C1H6R6DA16#	
			6.7pF	±0.05pF	GCM1555C1H6R7WA16#	
				±0.5pF	GCM1555C1H6R7DA16#	
			6.8pF	±0.05pF	GCM1555C1H6R8WA16#	
				±0.1pF	GCM1555C1H6R8BA16#	
				±0.25pF	GCM1555C1H6R8CA16#	
				±0.5pF	GCM1555C1H6R8DA16#	
				±1%	GCM1555C1H6R8FA16#	
			6.9pF	±0.5pF	GCM1555C1H6R9DA16#	
			7.0pF	±0.05pF	GCM1555C1H7R0WA16#	
				±0.1pF	GCM1555C1H7R0BA16#	
				±0.25pF	GCM1555C1H7R0CA16#	
				±0.5pF	GCM1555C1H7R0DA16#	
				±1%	GCM1555C1H7R0FA16#	
			7.1pF	±0.5pF	GCM1555C1H7R1DA16#	
			7.2pF	±0.25pF	GCM1555C1H7R2CA16#	
				±0.5pF	GCM1555C1H7R2DA16#	
			7.3pF	±0.5pF	GCM1555C1H7R3DA16#	
			7.4pF	±0.5pF	GCM1555C1H7R4DA16#	
			7.5pF	±0.1pF	GCM1555C1H7R5BA16#	
				±0.25pF	GCM1555C1H7R5CA16#	
				±0.5pF	GCM1555C1H7R5DA16#	
			7.6pF	±0.5pF	GCM1555C1H7R6DA16#	
			7.7pF	±0.5pF	GCM1555C1H7R7DA16#	
			7.8pF	±0.25pF	GCM1555C1H7R8CA16#	
				±0.5pF	GCM1555C1H7R8DA16#	
			7.9pF	±0.5pF	GCM1555C1H7R9DA16#	
			8.0pF	±0.05pF	GCM1555C1H8R0WA16#	
				±0.1pF	GCM1555C1H8R0BA16#	
				±0.25pF	GCM1555C1H8R0CA16#	
				±0.5pF	GCM1555C1H8R0DA16#	
				±1%	GCM1555C1H8R0FA16#	
			8.1pF	±0.5pF	GCM1555C1H8R1DA16#	
			8.2pF	±0.1pF	GCM1555C1H8R2BA16#	
				±0.25pF	GCM1555C1H8R2CA16#	
				±0.5pF	GCM1555C1H8R2DA16#	
			8.3pF	±0.5pF	GCM1555C1H8R3DA16#	
			8.4pF	±0.1pF	GCM1555C1H8R4BA16#	
				±0.5pF	GCM1555C1H8R4DA16#	
			8.5pF	±0.5pF	GCM1555C1H8R5DA16#	
			8.6pF	±0.5pF	GCM1555C1H8R6DA16#	
			8.7pF	±0.1pF	GCM1555C1H8R7BA16#	
				±0.5pF	GCM1555C1H8R7DA16#	
			8.8pF	±0.5pF	GCM1555C1H8R8DA16#	
			8.9pF	±0.5pF	GCM1555C1H8R9DA16#	
			9.0pF	±0.05pF	GCM1555C1H9R0WA16#	
				±0.1pF	GCM1555C1H9R0BA16#	
			Part num	her#indio	cates the package specification	code

(→ 1.0>	0.5mm	1)			
T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number
0.55mm	50Vdc	COG	9.0pF	±0.25pF	GCM1555C1H9R0CA16#
				±0.5pF	GCM1555C1H9R0DA16#
			9.1pF	±0.1pF	GCM1555C1H9R1BA16#
				±0.25pF	GCM1555C1H9R1CA16#
				±0.5pF	GCM1555C1H9R1DA16#
			9.2pF	±0.25pF	GCM1555C1H9R2CA16#
				±0.5pF	GCM1555C1H9R2DA16#
			9.3pF	±0.5pF	GCM1555C1H9R3DA16#
			9.4pF	±0.5pF	GCM1555C1H9R4DA16#
			9.5pF	±0.5pF	GCM1555C1H9R5DA16#
			9.6pF	±0.5pF	GCM1555C1H9R6DA16#
			9.7pF	±0.5pF	GCM1555C1H9R7DA16#
			9.8pF	±0.5pF	GCM1555C1H9R8DA16#
			9.9pF	±0.5pF	GCM1555C1H9R9DA16#
			10pF	±1%	GCM1555C1H100FA16#
				±2%	GCM1555C1H100GA16#
				±2.5%	GCM1555C1H100RA16#
				±5%	GCM1555C1H100JA16#
			11pF	±1%	GCM1555C1H110FA16#
				±2%	GCM1555C1H110GA16#
				±5%	GCM1555C1H110JA16#
			12pF	±1%	GCM1555C1H120FA16#
			·	±2%	GCM1555C1H120GA16#
				±5%	GCM1555C1H120JA16#
			13pF	±1%	GCM1555C1H130FA16#
			·	±2%	GCM1555C1H130GA16#
				±5%	GCM1555C1H130JA16#
			15pF	±1%	GCM1555C1H150FA16#
				±2%	GCM1555C1H150GA16#
				±5%	GCM1555C1H150JA16#
			16pF	±1%	GCM1555C1H160FA16#
				±2%	GCM1555C1H160GA16#
				±5%	GCM1555C1H160JA16#
			18pF	±1%	GCM1555C1H180FA16#
			206.	±2%	GCM1555C1H180GA16#
				±5%	GCM1555C1H180JA16#
			20pF	±1%	GCM1555C1H200FA16#
			Zopi	±2%	GCM1555C1H200GA16#
				±5%	GCM1555C1H200JA16#
			22pF	±1%	GCM1555C1H220FA16#
			ΖΖΡΙ	±2%	GCM1555C1H220GA16#
				±5%	GCM1555C1H220JA16#
			2455		GCM1555C1H240FA16#
			24pF	±1%	
				±2%	GCM1555C1H240GA16#
			27~5	±5%	GCM1555C1H240JA16#
			27pF	±1%	GCM1555C1H270FA16#
				±2%	GCM1555C1H270GA16#
			20:-	±5%	GCM1555C1H270JA16#
			30pF	±1%	GCM1555C1H300FA16#
				±2%	GCM1555C1H300GA16#
			22:-	±5%	GCM1555C1H300JA16#
			33pF	±1%	GCM1555C1H330FA16#
				±2%	GCM1555C1H330GA16#
				±5%	GCM1555C1H330JA16#

T max.	Rated Voltage	TC Code	Сар.	Tol.	Part Number	
0.55mm	50Vdc	COG	36pF	±1%	GCM1555C1H360FA16#	
				±2%	GCM1555C1H360GA16#	
				±5%	GCM1555C1H360JA16#	
			39pF	±1%	GCM1555C1H390FA16#	
				±2%	GCM1555C1H390GA16#	
				±5%	GCM1555C1H390JA16#	
			43pF	±1%	GCM1555C1H430FA16#	
				±2%	GCM1555C1H430GA16#	
				±5%	GCM1555C1H430JA16#	
			47pF	±1%	GCM1555C1H470FA16#	
				±2%	GCM1555C1H470GA16#	
				±5%	GCM1555C1H470JA16#	
			51pF	±1%	GCM1555C1H510FA16#	
				±2%	GCM1555C1H510GA16#	
				±5%	GCM1555C1H510JA16#	
			56pF	±1%	GCM1555C1H560FA16#	
				±2%	GCM1555C1H560GA16#	
				±5%	GCM1555C1H560JA16#	
			62pF	±1%	GCM1555C1H620FA16#	
				±2%	GCM1555C1H620GA16#	
				±5%	GCM1555C1H620JA16#	
			68pF	±1%	GCM1555C1H680FA16#	
				±2%	GCM1555C1H680GA16#	
				±5%	GCM1555C1H680JA16#	
			75pF	±1%	GCM1555C1H750FA16#	
				±2%	GCM1555C1H750GA16#	
				±5%	GCM1555C1H750JA16#	
			82pF	±1%	GCM1555C1H820FA16#	
				±2%	GCM1555C1H820GA16#	
				±5%	GCM1555C1H820JA16#	
			91pF	±1%	GCM1555C1H910FA16#	
				±2%	GCM1555C1H910GA16#	
				±5%	GCM1555C1H910JA16#	
			100pF	±1%	GCM1555C1H101FA16#	
				±2%	GCM1555C1H101GA16#	
				±5%	GCM1555C1H101JA16#	
			110pF	±1%	GCM1555C1H111FA16#	
				±2%	GCM1555C1H111GA16#	
				±5%	GCM1555C1H111JA16#	
			120pF	±1%	GCM1555C1H121FA16#	
				±2%	GCM1555C1H121GA16#	
				±5%	GCM1555C1H121JA16#	
			130pF	±1%	GCM1555C1H131FA16#	
				±2%	GCM1555C1H131GA16#	
				±5%	GCM1555C1H131JA16#	
			150pF	±1%	GCM1555C1H151FA16#	
				±2%	GCM1555C1H151GA16#	
				±5%	GCM1555C1H151JA16#	
			160pF	±1%	GCM1555C1H161FA16#	
				±2%	GCM1555C1H161GA16#	
				±5%	GCM1555C1H161JA16#	
			180pF	±1%	GCM1555C1H181FA16#	
				±2%	GCM1555C1H181GA16#	
				±5%	GCM1555C1H181JA16#	

# GRT Series

GCM Series

GC3 Series

CQ Series / GCJ \$

eries | GCD Se

s // NMF Series

### GCM Series Temperature Compensating Type Report Number List

Tol.   Part Number	(→ 1.0×	0.5mm	1)			
#2% GCM1555C1H201GA16# #25% GCM1555C1H201JA16# #20 GCM1555C1H221GA16# #25% GCM1555C1H221JA16# #26 GCM1555C1H221JA16# #27 GCM1555C1H221JA16# #28 GCM1555C1H221JA16# #29 GCM1555C1H241JA16# #29 GCM1555C1H241JA16# #27 GCM1555C1H241JA16# #27 GCM1555C1H271JA16# #28 GCM1555C1H271JA16# #29 GCM1555C1H271JA16# #29 GCM1555C1H271JA16# #29 GCM1555C1H271JA16# #29 GCM1555C1H271JA16# #29 GCM1555C1H301JA16# #29 GCM1555C1H301JA16# #29 GCM1555C1H301JA16# #29 GCM1555C1H301JA16# #29 GCM1555C1H301JA16# #29 GCM1555C1H301JA16# #29 GCM1555C1H301JA16# #29 GCM1555C1H301JA16# #29 GCM1555C1H301JA16# #29 GCM1555C1H301JA16# #29 GCM1555C1H301JA16# #29 GCM1555C1H301JA16# #29 GCM1555C1H301JA16# #20 GCM155SC1H301JA16# #20 GCM155SC1H301JA1	T max.		1. 1	Cap.	Tol.	Part Number
### 15% GCM1555C1H201JA16#   ### 220pF	0.55mm	50Vdc	COG	200pF	±1%	GCM1555C1H201FA16#
220pF					±2%	GCM1555C1H201GA16#
#2% GCM1555C1H221GA16# #25% GCM1555C1H221JA16# #26 GCM1555C1H241FA16# #270PF #1% GCM1555C1H241FA16# #28 GCM1555C1H241FA16# #29 GCM1555C1H241JA16# #29 GCM1555C1H241JA16# #29 GCM1555C1H271JA16# #29 GCM1555C1H271JA16# #29 GCM1555C1H301GA16# #29 GCM1555C1H501GA16# #29 GCM1555C1H501GA16# #29 GCM1555C1H501GA16# #29 GCM1555C1H501GA16# #29 GCM1555C1H501GA16# #29 GCM1555C1H501GA16# #29 GCM1555C1H501GA16# #29 GCM1555C1H501GA16# #29 GCM1555C1H501GA16# #29 GCM1555C1H501GA16# #29 GCM1555C1H501GA16# #29 GCM1555C1H501GA16# #29 GCM1555C1H501GA16# #29 GCM1555C1H501GA16# #29 GCM1555C1H501GA16# #29 GCM1555C1H501GA16# #29 GCM155C1H501GA16# #29 GCM155C01H501JA16# #20 GCM155C01H601GA16#					±5%	GCM1555C1H201JA16#
### ### ### ### ### ### ### ### ### ##				220pF	±1%	GCM1555C1H221FA16#
240pF					±2%	GCM1555C1H221GA16#
# 12% GCM1555C1H241JA16# # 15% GCM1555C1H271JA16# # 15% GCM1555C1H271JA16# # 15% GCM1555C1H271JA16# # 15% GCM1555C1H271JA16# # 15% GCM1555C1H271JA16# # 15% GCM1555C1H271JA16# # 15% GCM1555C1H271JA16# # 15% GCM1555C1H301JA16# # 15% GCM1555C1H301JA16# # 15% GCM1555C1H301JA16# # 15% GCM1555C1H301JA16# # 15% GCM1555C1H301JA16# # 15% GCM1555C1H301JA16# # 15% GCM1555C1H301JA16# # 15% GCM1555C1H301JA16# # 15% GCM1555C1H301JA16# # 15% GCM1555C1H301JA16# # 15% GCM1555C1H301JA16# # 15% GCM1555C1H301JA16# # 15% GCM1555C1H301JA16# # 15% GCM1555C1H301JA16# # 15% GCM1555C1H301JA16# # 15% GCM1555C1H31JA16# # 15% GCM1555C1H31JA16# # 15% GCM1555C1H31JA16# # 15% GCM1555C1H31JA16# # 15% GCM1555C1H51JA16# # 15% GCM1555C1H51JA16# # 15% GCM1555C1H51JA16# # 15% GCM1555C1H51JA16# # 15% GCM1555C1H51JA16# # 15% GCM1555C1H51JA16# # 15% GCM1555C1H51JA16# # 15% GCM1555C1H51JA16# # 15% GCM1555C1H51JA16# # 15% GCM1555C1H51JA16# # 15% GCM1555C1H62JA16# # 15% GCM1555C1H62JA16# # 15% GCM1555C1H62JA16# # 15% GCM1555C1H62JA16# # 15% GCM1555C1H62JA16# # 15% GCM1555C1H62JA16# # 15% GCM1555C1H62JA16# # 15% GCM1555C1H62JA16# # 15% GCM1555C1H62JA16# # 15% GCM1555C1H62JA16# # 15% GCM1555C1H62JA16# # 15% GCM1555C1H62JA16# # 15% GCM1555C1H63JA16# # 15% GCM1555C1H62JA16# # 15% GCM1555C1H62JA16# # 15% GCM1555C1H62JA16# # 15% GCM1555C1H62JA16# # 15% GCM1555C1H62JA16# # 15% GCM1555C1H62JA16# # 15% GCM1555C1H62JA16# # 15% GCM1555C1H63JA16# # 15% G					±5%	GCM1555C1H221JA16#
### ### ### ### ### ### ### ### ### ##				240pF	±1%	GCM1555C1H241FA16#
270pF					±2%	GCM1555C1H241GA16#
### ### ### ### ### ### ### ### ### ##					±5%	GCM1555C1H241JA16#
### ### ### ### ### ### ### ### ### ##				270pF	±1%	GCM1555C1H271FA16#
300pf					±2%	GCM1555C1H271GA16#
# 2% GCM1555C1H301GA16# # 25% GCM1555C1H331FA16# # 22% GCM1555C1H331FA16# # 25% GCM1555C1H331FA16# # 25% GCM1555C1H331JA16# # 25% GCM1555C1H361GA16# # 25% GCM1555C1H361GA16# # 25% GCM1555C1H361GA16# # 25% GCM1555C1H361GA16# # 25% GCM1555C1H391GA16# # 25% GCM1555C1H391GA16# # 25% GCM1555C1H391GA16# # 25% GCM1555C1H391A16# # 25% GCM1555C1H391A16# # 25% GCM1555C1H31GA16# # 25% GCM1555C1H31GA16# # 25% GCM1555C1H31GA16# # 25% GCM1555C1H31GA16# # 25% GCM1555C1H31GA16# # 25% GCM1555C1H51IGA16# # 25% GCM1555C1H51IGA16# # 25% GCM1555C1H51IGA16# # 25% GCM1555C1H51IGA16# # 25% GCM1555C1H561GA16# # 25% GCM1555C1H561GA16# # 25% GCM1555C1H661GA16# # 25% GCM1555C1H661GA16# # 25% GCM1555C1H661GA16# # 25% GCM1555C1H681JA16# # 25% GCM1555C1H681JA16# # 25% GCM1555C1H681JA16# # 25% GCM1555C1H681JA16# # 25% GCM1555C1H681JA16# # 25% GCM155C1H51JA16# # 25% GCM1555C1H681JA16# # 25% GCM1555C1H681JA16# # 25% GCM1555C1H681JA16# # 25% GCM1555C1H681JA16# # 25% GCM1555C1H681JA16# # 25% GCM1555C1H521GA16# # 25% GCM1555C1H521GA16# # 25% GCM1555C1H521GA16# # 25% GCM1555C1H521FA16# # 22% GCM1555C1H521FA16# # 25%					±5%	GCM1555C1H271JA16#
### ### ### ### ### ### ### ### ### ##				300pF	±1%	GCM1555C1H301FA16#
330pF					±2%	GCM1555C1H301GA16#
# 22% GCM1555C1H331GA16# # 25% GCM1555C1H331JA16# # 22% GCM1555C1H361GA16# # 25% GCM1555C1H361GA16# # 25% GCM1555C1H361GA16# # 25% GCM1555C1H391GA16# # 25% GCM1555C1H391GA16# # 25% GCM1555C1H391JA16# # 25% GCM1555C1H391JA16# # 25% GCM1555C1H31GA16# # 25% GCM1555C1H31JA16# # 25% GCM1555C1H31JA16# # 25% GCM1555C1H31JA16# # 25% GCM1555C1H31JA16# # 25% GCM1555C1H31JA16# # 25% GCM1555C1H31JA16# # 25% GCM1555C1H511JA16# # 25% GCM1555C1H511JA16# # 25% GCM1555C1H511JA16# # 25% GCM1555C1H511JA16# # 25% GCM1555C1H511JA16# # 25% GCM1555C1H511JA16# # 25% GCM1555C1H511JA16# # 25% GCM1555C1H561JA16# # 25% GCM1555C1H621GA16# # 25% GCM1555C1H621GA16# # 25% GCM1555C1H621GA16# # 25% GCM1555C1H621GA16# # 25% GCM1555C1H621GA16# # 25% GCM1555C1H621GA16# # 25% GCM1555C1H621GA16# # 25% GCM1555C1H621GA16# # 25% GCM1555C1H621GA16# # 25% GCM1555C1H621GA16# # 25% GCM1555C1H621GA16# # 25% GCM1555C1H751GA16# # 25% GCM1555C1H751GA16# # 25% GCM1555C1H751GA16# # 25% GCM1555C1H751GA16# # 25% GCM1555C1H751GA16# # 25% GCM1555C1H31JA1					±5%	GCM1555C1H301JA16#
### ### ##############################				330pF	±1%	GCM1555C1H331FA16#
360pF ±1% GCM1555C1H361FA16# ±2% GCM1555C1H361JA16# 390pF ±1% GCM1555C1H391FA16# ±5% GCM1555C1H391JA16# ±5% GCM1555C1H391JA16# ±5% GCM1555C1H391JA16# ±5% GCM1555C1H431FA16# ±2% GCM1555C1H431JA16# ±5% GCM1555C1H431JA16# ±5% GCM1555C1H471FA16# ±2% GCM1555C1H471JA16# ±5% GCM1555C1H471JA16# ±5% GCM1555C1H471JA16# ±5% GCM1555C1H471JA16# ±5% GCM1555C1H511JA16# ±5% GCM1555C1H511JA16# ±2% GCM1555C1H511JA16# ±5% GCM1555C1H511JA16# ±5% GCM1555C1H511JA16# ±5% GCM1555C1H561JA16# ±5% GCM1555C1H621JA16# ±5% GCM1555C1H621JA16# ±5% GCM1555C1H621JA16# ±5% GCM1555C1H621JA16# ±5% GCM1555C1H621JA16# ±2% GCM1555C1H631JA16# ±2% GCM1555C1H631JA16# ±2% GCM1555C1H631JA16# ±2% GCM1555C1H631JA16# ±2% GCM1555C1H631JA16# ±5% GCM1555C1H751JA16# ±2% GCM1555C1H751JA16# ±2% GCM1555C1H821JA16# ±2% GCM1555C1H821JA16# ±2% GCM1555C1H821JA16# ±2% GCM1555C1H821JA16# ±2% GCM1555C1H821JA16# ±2% GCM1555C1H811JA16# ±2% GCM1555C1H911JA16# ±2% GCM155					±2%	GCM1555C1H331GA16#
### ### ##############################					±5%	GCM1555C1H331JA16#
### 15% GCM1555C1H361JA16# ### 15% GCM1555C1H391FA16# ### 12% GCM155C1H391JA16# ### 12% GCM155C1H391JA16# ### 12% GCM155C1H391JA16# ### 12% GCM155C1H431FA16# ### 12% GCM155SC1H431JA16# ### 12% GCM155SC1H431JA16# ### 12% GCM155SC1H471JA16# ### 12% GCM155SC1H471JA16# ### 12% GCM155SC1H471JA16# ### 12% GCM155SC1H471JA16# ### 12% GCM155SC1H511JA16# ### 12% GCM155SC1H511JA16# ### 12% GCM155SC1H511JA16# ### 12% GCM155SC1H511JA16# ### 12% GCM155SC1H51JA16# ### 12% GCM155SC1H61JA16# ### 12% GCM155SC1H621JA16# ### 12% GCM155SC1H621JA16# ### 12% GCM155SC1H621JA16# ### 12% GCM155SC1H681JA16# ### 12% GCM155SC1H681JA16# ### 12% GCM155SC1H681JA16# ### 12% GCM155SC1H681JA16# ### 12% GCM155SC1H681JA16# ### 12% GCM155SC1H681JA16# ### 12% GCM155SC1H751JA16# ### 12% GCM155SC1H751JA16# ### 12% GCM155SC1H821JA16# ### 12% GCM155SC1H821JA16# ### 12% GCM155SC1H821JA16# ### 12% GCM155SC1H821JA16# ### 12% GCM155SC1H81JA16# ### 12% GCM155SC1H91JA16# ### 12% GCM155SC1H91JA16# ### 12% GCM155SC1H91JA16# ### 12% GCM155SC1H91JA16# ### 12% GCM155SC1H91JA16# ### 12% GCM155SC1H91JA16# ### 12% GCM155SC1H91JA16# ### 12% GCM155SC1H91JA16# ### 12% GCM155SC1H91JA16# ### 12% GCM155SC1H91JA16# ### 12% GCM155SC1H91JA16# ### 12% GCM155SC1H91JA16# ### 12% GCM155SC1H91JA16# ### 12% GCM155SC1H91JA16# ### 12% GCM155SC1H91JA16# #### 12% GCM155SC1H91JA16# #### 12% GCM155SC1H91JA16# #### 12% GCM155SC1H91JA16# #### 12% GCM155SC1H91JA16# #### 12% GCM155SC1H91JA16# ##### 12% GCM155SC1H91JA16# ###################################				360pF	±1%	GCM1555C1H361FA16#
390pF ±1% GCM1555C1H391FA16# ±2% GCM1555C1H391JA16# ±1% GCM1555C1H391JA16# ±2% GCM1555C1H431FA16# ±2% GCM1555C1H431JA16# ±5% GCM1555C1H431JA16# ±5% GCM1555C1H47IJA16# ±2% GCM1555C1H47IJA16# ±5% GCM1555C1H51IJA16# ±5% GCM1555C1H51IJA16#  510pF ±1% GCM1555C1H51IJA16# ±2% GCM1555C1H51IJA16# ±5% GCM1555C1H51IJA16# ±60pF ±1% GCM1555C1H561JA16# ±2% GCM1555C1H561JA16# ±2% GCM1555C1H561JA16# ±2% GCM1555C1H561JA16# ±2% GCM1555C1H681JA16# ±2% GCM1555C1H681JA16# ±2% GCM1555C1H681JA16# ±2% GCM1555C1H681JA16# ±2% GCM1555C1H681JA16# ±2% GCM1555C1H681JA16# ±2% GCM1555C1H681JA16# ±2% GCM1555C1H681JA16# ±2% GCM1555C1H821JA16# ±2% GCM1555C1H821JA16# ±2% GCM1555C1H821FA16# ±2% GCM1555C1H821JA16#  910pF ±1% GCM1555C1H91IFA16# ±2% GCM1555C1H91IJA16# ±2% GCM1555C1H91IJA16# ±2% GCM1555C1H02FA16# ±2% GCM1555C1H02FA16# ±2% GCM1555C1H02FA16# ±2% GCM1555C1H01GA16# ±2% GCM1555C1H01GA16#					±2%	GCM1555C1H361GA16#
### ### ##############################					±5%	GCM1555C1H361JA16#
### ### ### ### ### ### ### ### ### ##				390pF	±1%	GCM1555C1H391FA16#
430pF ±1% GCM1555C1H431FA16# ±2% GCM1555C1H431JA16# 470pF ±1% GCM1555C1H471FA16# ±2% GCM1555C1H471FA16# ±2% GCM1555C1H471JA16# 510pF ±1% GCM1555C1H511FA16# ±2% GCM1555C1H511JA16# 560pF ±1% GCM1555C1H511JA16# ±2% GCM1555C1H511JA16# ±2% GCM1555C1H561JA16# ±5% GCM1555C1H561JA16# ±2% GCM1555C1H621FA16# ±2% GCM1555C1H621JA16# 55% GCM1555C1H681FA16# ±2% GCM1555C1H681FA16# ±2% GCM1555C1H681FA16# ±2% GCM1555C1H681JA16# 55% GCM1555C1H681JA16# 55% GCM1555C1H681JA16# ±5% GCM1555C1H681JA16# ±2% GCM1555C1H681JA16# ±5% GCM1555C1H751FA16# ±2% GCM1555C1H751JA16# 55% GCM1555C1H321JA16# 55% GCM1555C1H321JA16# 55% GCM1555C1H321JA16# 55% GCM1555C1H321JA16# 55% GCM1555C1H31JA16# 55% GCM1555C1H31JA16# 55% GCM1555C1H31JA16# 55% GCM1555C1H31JA16# 55% GCM1555C1H31JA16# 55% GCM1555C1H31JA16# 55% GCM1555C1H31JA16# 55% GCM1555C1H31JA16# 55% GCM1555C1H31JA16# 55% GCM1555C1H31JA16# 55% GCM1555C1H31JA16# 55% GCM1555C1H31JA16# 55% GCM1555C1H31JA16# 55% GCM1555C1H31JA16# 55% GCM1555C1H31JA16# 55% GCM1555C1H302GA16# 55% GCM1555C1H302GA16#					±2%	GCM1555C1H391GA16#
### ### ##############################					±5%	GCM1555C1H391JA16#
### ### ##############################				430pF	±1%	GCM1555C1H431FA16#
### ### ##############################					±2%	GCM1555C1H431GA16#
±2% GCM1555C1H471JA16#  ±5% GCM1555C1H471JA16#  510pF ±1% GCM1555C1H511FA16#  ±2% GCM1555C1H511JA16#  ±5% GCM1555C1H511JA16#  ±5% GCM1555C1H561FA16#  ±2% GCM1555C1H561JA16#  ±5% GCM1555C1H561JA16#  ±5% GCM1555C1H621JA16#  ±2% GCM1555C1H621JA16#  ±5% GCM1555C1H621JA16#  ±5% GCM1555C1H681FA16#  ±5% GCM1555C1H681JA16#  ±5% GCM1555C1H681JA16#  ±5% GCM1555C1H681JA16#  ±5% GCM1555C1H681JA16#  ±5% GCM1555C1H751FA16#  ±2% GCM1555C1H751JA16#  45% GCM1555C1H821FA16#  ±5% GCM1555C1H821JA16#  910pF ±1% GCM1555C1H911FA16#  ±2% GCM1555C1H911JA16#  1000pF ±1% GCM1555C1H911JA16#  ±5% GCM1555C1H911JA16#  ±2% GCM1555C1H911JA16#  ±2% GCM1555C1H911JA16#  ±2% GCM1555C1H911JA16#					±5%	GCM1555C1H431JA16#
# ±5% GCM1555C1H471JA16# # ±2% GCM1555C1H511FA16# # ±2% GCM1555C1H511JA16# # ±5% GCM1555C1H511JA16# # ±2% GCM1555C1H511JA16# # ±2% GCM1555C1H561FA16# # ±2% GCM1555C1H561JA16# # ±5% GCM1555C1H621FA16# # ±2% GCM1555C1H621FA16# # ±5% GCM1555C1H621JA16# # ±5% GCM1555C1H621JA16# # ±5% GCM1555C1H681FA16# # ±5% GCM1555C1H681JA16# # ±5% GCM1555C1H681JA16# # ±5% GCM1555C1H681JA16# # ±5% GCM1555C1H751JA16# # ±2% GCM1555C1H751JA16# # ±5% GCM1555C1H751JA16# # ±5% GCM1555C1H821FA16# # ±5% GCM1555C1H821JA16# # ±5% GCM1555C1H821JA16# # ±5% GCM1555C1H821JA16# # ±5% GCM1555C1H911FA16# # ±5% GCM1555C1H911JA16# # ±5% GCM1555C1H911JA16# # ±5% GCM1555C1H911JA16# # ±5% GCM1555C1H911JA16# # ±5% GCM1555C1H911JA16# # ±5% GCM1555C1H911JA16# # ±5% GCM1555C1H911JA16# # ±5% GCM1555C1H102FA16# # ±2% GCM1555C1H102FA16# # ±2% GCM1555C1H102FA16# # ±2% GCM1555C1H102FA16# # ±2% GCM1555C1H102FA16# # ±2% GCM1555C1H102FA16# # ±2% GCM1555C1H102FA16# # ±2% GCM1555C1H102FA16# # ±2% GCM1555C1H102FA16# # ±2% GCM1555C1H102FA16# # ±2% GCM1555C1H102GA16#				470pF	±1%	GCM1555C1H471FA16#
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					±5%	GCM1555C1H102JA16#

0.55mm   50Vdc   X8G   0.10pF   20.1pF   CM1555G1HR10BA16#   20.25pF   CM1555G1HR20BA16#   20.25pF   CM1555G1HR20BA16#   20.25pF   CM1555G1HR30BA16#   20.	T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number	
20.25pF   GCM1555G1HR10CA16#     0.20pF   20.15pF   GCM1555G1HR20CA16#     0.30pF   20.15pF   GCM1555G1HR30CA16#     0.40pF   20.15pF   GCM1555G1HR30CA16#     0.50pF   20.15pF   GCM1555G1HR30CA16#     0.50pF   20.15pF   GCM1555G1HR30CA16#     0.50pF   20.15pF   GCM1555G1HR50CA16#     0.60pF   20.15pF   GCM1555G1HR50CA16#     0.70pF   20.15pF   GCM1555G1HR50CA16#     0.70pF   20.15pF   GCM1555G1HR70CA16#     0.70pF   20.15pF   GCM1555G1HR70CA16#     0.70pF   20.15pF   GCM1555G1HR70CA16#     0.70pF   20.15pF   GCM1555G1HR70CA16#     0.80pF   20.15pF   GCM1555G1HR70CA16#     0.80pF   20.15pF   GCM1555G1HR80CA16#     0.90pF   20.15pF   GCM1555G1HR80CA16#     0.90pF   20.15pF   GCM1555G1HR80CA16#     0.10pF   40.15pF   GCM1555G1HR80CA16#     1.0pF   20.15pF   GCM1555G1HR80CA16#     1.0pF   20.15pF   GCM1555G1HR80CA16#     1.0pF   20.15pF   GCM1555G1HR80CA16#     1.0pF   20.15pF   GCM1555G1HR80CA16#     1.0pF   20.15pF   GCM1555G1HR80CA16#     1.0pF   20.15pF   GCM1555G1HR80CA16#     1.0pF   20.15pF   GCM1555G1HR80CA16#     1.0pF   20.15pF   GCM1555G1HR80CA16#     1.0pF   20.15pF   GCM1555G1HR80CA16#     1.0pF   20.15pF   GCM1555G1HR80CA16#     1.0pF   20.15pF   GCM1555G1HR80CA16#     1.0pF   20.15pF   GCM1555G1HR8CA16#     1.0pF   20.15pF   GCM1555G1HR8CA16#     1.0pF   20.15pF   GCM1555G1HR8CA16#     1.0pF   20.15pF   GCM1555G1HR8CA16#     1.0pF   20.15pF   GCM1555G1HR8CA16#     20.25p	0.55mm	50Vdc	X8G	0.10pF	±0.1pF	GCM1555G1HR10BA16#	
0.20pF   20.1pF   CCM1555G1HR20CA16#   20.25pF   CCM1555G1HR3CA16#   20.25pF   CCM1555G1HR3CA16#   2							
#0.25pF GCM1555G1HR30BA16# #0.25pF GCM1555G1HR30BA16# #0.25pF GCM1555G1HR40BA16# #0.25pF GCM1555G1HR40BA16# #0.25pF GCM1555G1HR40BA16# #0.25pF GCM1555G1HR50BA16# #0.25pF GCM1555G1HR60BA16# #0.25pF GCM1555G1HR60BA16# #0.25pF GCM1555G1HR60BA16# #0.25pF GCM1555G1HR70BA16# #0.25pF GCM1555G1HR70BA16# #0.25pF GCM1555G1HR70BA16# #0.25pF GCM1555G1HR70BA16# #0.25pF GCM1555G1HR70BA16# #0.25pF GCM1555G1HR70BA16# #0.25pF GCM1555G1HR80BA16# #0.25pF GCM1555G1HR80BA16# #0.25pF GCM1555G1HR80BA16# #0.25pF GCM1555G1HR80BA16# #0.25pF GCM1555G1HR80BA16# #0.25pF GCM1555G1HR80BA16# #0.25pF GCM1555G1HR80BA16# #0.25pF GCM1555G1HR80BA16# #0.25pF GCM1555G1HR80BA16# #0.25pF GCM1555G1HR80BA16# #0.25pF GCM1555G1HR80BA16# #0.25pF GCM1555G1HR80BA16# #0.25pF GCM1555G1HR8BA16# #0.25pF GCM155SG1HR8BA16# #0.25pF GCM155SG1HR8BA16# #0.25pF GCM155SG1HR8BA16#				0.20pF			
0.30pF				·			
#0.25pF   GCM1555G1HR30CA16#   0.40pF   ±0.1pF   GCM1555G1HR40BA16#   ±0.25pF   GCM1555G1HR50BA16#   0.50pF   ±0.1pF   GCM1555G1HR50BA16#   ±0.25pF   GCM1555G1HR50CA16#   0.60pF   ±0.1pF   GCM1555G1HR70BA16#   ±0.25pF   GCM1555G1HR70CA16#   0.70pF   ±0.1pF   GCM1555G1HR70CA16#   0.75pF   ±0.1pF   GCM1555G1HR75BA16#   ±0.25pF   GCM1555G1HR75BA16#   ±0.25pF   GCM1555G1HR75BA16#   ±0.25pF   GCM1555G1HR80BA16#   ±0.25pF   GCM1555G1HR80BA16#   ±0.25pF   GCM1555G1HR80BA16#   ±0.25pF   GCM1555G1HR80CA16#   0.90pF   ±0.1pF   GCM1555G1HR80CA16#   1.0pF   ±0.1pF   GCM1555G1HR80CA16#   1.0pF   ±0.1pF   GCM1555G1HR80CA16#   1.2pF   ±0.1pF   GCM1555G1HR80CA16#   1.2pF   ±0.1pF   GCM1555G1HR80CA16#   1.2pF   ±0.1pF   GCM1555G1HR8DA16#   ±0.25pF   GCM1555G1HR8D				0.30pF			
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#0.25pF GCM1555G1HR60CA16#  0.70pF				0.60pF	-		
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#0.25pF GCM1555G1HR70CA16#  0.75pF				0.70pF			
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# ±0.25pF GCM1555G1H1R3CA16# # ±0.25pF GCM1555G1H1R4CA16# # ±0.25pF GCM1555G1H1R5CA16# # ±0.25pF GCM1555G1H1R5CA16# # ±0.25pF GCM1555G1H1R5CA16# # ±0.25pF GCM1555G1H1R5CA16# # ±0.25pF GCM1555G1H1R6CA16# # ±0.25pF GCM1555G1H1R7CA16# # ±0.25pF GCM1555G1H1R7CA16# # ±0.25pF GCM1555G1H1R8BA16# # ±0.25pF GCM1555G1H1R8CA16# # ±0.25pF GCM1555G1H1R8CA16# # ±0.25pF GCM1555G1H1R9CA16# # ±0.25pF GCM1555G1H2R0CA16# # ±0.25pF GCM1555G1H2R0CA16# # ±0.25pF GCM1555G1H2R0CA16# # ±0.25pF GCM1555G1H2R0CA16# # ±0.25pF GCM1555G1H2R1BA16# # ±0.25pF GCM1555G1H2R2BA16# # ±0.25pF GCM1555G1H2R2BA16# # ±0.25pF GCM1555G1H2R2CA16# # ±0.25pF GCM1555G1H2R3BA16# # ±0.25pF GCM1555G1H2R3BA16# # ±0.25pF GCM1555G1H2R3CA16# # ±0.25pF GCM1555G1H2R4BA16# # ±0.25pF GCM1555G1H2R4BA16# # ±0.25pF GCM1555G1H2R4BA16# # ±0.25pF GCM1555G1H2R4BA16# # ±0.25pF GCM1555G1H2R4BA16# # ±0.25pF GCM1555G1H2R5BA16# # ±0.25pF GCM1555G1H2R6BA16# # ±0.25pF GCM155				1.3pF			
1.4pF ±0.1pF GCM1555G1H1R4BA16# ±0.25pF GCM1555G1H1R5BA16# ±0.25pF GCM1555G1H1R5BA16# ±0.25pF GCM1555G1H1R5CA16#  1.6pF ±0.1pF GCM1555G1H1R6BA16# ±0.25pF GCM1555G1H1R6BA16# ±0.25pF GCM1555G1H1R7BA16# ±0.25pF GCM1555G1H1R7CA16#  1.8pF ±0.1pF GCM1555G1H1R8BA16# ±0.25pF GCM1555G1H1R8BA16# ±0.25pF GCM1555G1H1R8BA16# ±0.25pF GCM1555G1H1R9BA16# ±0.25pF GCM1555G1H1R9BA16# ±0.25pF GCM1555G1H2R0BA16# ±0.25pF GCM1555G1H2R0BA16# ±0.25pF GCM1555G1H2R0BA16# ±0.25pF GCM1555G1H2R1BA16# ±0.25pF GCM1555G1H2R1BA16# ±0.25pF GCM1555G1H2R2BA16# ±0.25pF GCM1555G1H2R2BA16# ±0.25pF GCM1555G1H2R3BA16# ±0.25pF GCM1555G1H2R3BA16# ±0.25pF GCM1555G1H2R3BA16# ±0.25pF GCM1555G1H2R3BA16# ±0.25pF GCM1555G1H2R3BA16# ±0.25pF GCM1555G1H2R4BA16# ±0.25pF GCM1555G1H2R4BA16# ±0.25pF GCM1555G1H2R4BA16# ±0.25pF GCM1555G1H2R5BA16# ±0.25pF GCM1555G1H2R5BA16#							
### 1.5pF ### 20.1pF ### 20.25pF #### 20.25pF #### 20.25pF #### 20.25pF #### 20.25pF #### 20.25pF #### 20.25pF #### 20.25pF #### 20.25pF #### 20.25pF ####################################				1.4pF			
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±0.25pF GCM1555G1H1R7CA16#  1.8pF ±0.1pF GCM1555G1H1R8BA16# ±0.25pF GCM1555G1H1R8CA16#  1.9pF ±0.1pF GCM1555G1H1R9BA16# ±0.25pF GCM1555G1H1R9CA16#  2.0pF ±0.1pF GCM1555G1H2R0BA16# ±0.25pF GCM1555G1H2R0CA16#  2.1pF ±0.1pF GCM1555G1H2R1BA16# ±0.25pF GCM1555G1H2R1BA16# ±0.25pF GCM1555G1H2R2BA16# ±0.25pF GCM1555G1H2R2CA16#  2.3pF ±0.1pF GCM1555G1H2R2CA16#  2.3pF ±0.1pF GCM1555G1H2R3BA16# ±0.25pF GCM1555G1H2R3BA16# ±0.25pF GCM1555G1H2R4BA16# ±0.25pF GCM1555G1H2R4BA16# ±0.25pF GCM1555G1H2R4BA16# ±0.25pF GCM1555G1H2R5BA16# ±0.25pF GCM1555G1H2R5BA16# ±0.25pF GCM1555G1H2R5BA16# ±0.25pF GCM1555G1H2R5BA16# ±0.25pF GCM1555G1H2R5BA16# ±0.25pF GCM1555G1H2R5BA16# ±0.25pF GCM1555G1H2R5BA16#						GCM1555G1H1R6CA16#	
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±0.25pF GCM1555G1H2R1CA16#  2.2pF ±0.1pF GCM1555G1H2R2BA16# ±0.25pF GCM1555G1H2R2CA16#  2.3pF ±0.1pF GCM1555G1H2R3BA16# ±0.25pF GCM1555G1H2R3CA16#  2.4pF ±0.1pF GCM1555G1H2R4BA16# ±0.25pF GCM1555G1H2R4CA16#  2.5pF ±0.1pF GCM1555G1H2R5BA16# ±0.25pF GCM1555G1H2R5CA16#  2.6pF ±0.1pF GCM1555G1H2R5CA16#				2.1pF			
±0.25pF GCM1555G1H2R2CA16#  2.3pF ±0.1pF GCM1555G1H2R3BA16#  ±0.25pF GCM1555G1H2R3CA16#  2.4pF ±0.1pF GCM1555G1H2R4CA16#  ±0.25pF GCM1555G1H2R4CA16#  2.5pF ±0.1pF GCM1555G1H2R5BA16#  ±0.25pF GCM1555G1H2R5CA16#  2.6pF ±0.1pF GCM1555G1H2R6BA16#					±0.25pF	GCM1555G1H2R1CA16#	
±0.25pF GCM1555G1H2R2CA16#  2.3pF ±0.1pF GCM1555G1H2R3BA16#  ±0.25pF GCM1555G1H2R3CA16#  2.4pF ±0.1pF GCM1555G1H2R4CA16#  ±0.25pF GCM1555G1H2R4CA16#  2.5pF ±0.1pF GCM1555G1H2R5BA16#  ±0.25pF GCM1555G1H2R5CA16#  2.6pF ±0.1pF GCM1555G1H2R6BA16#				2.2pF			
2.3pF ±0.1pF GCM1555G1H2R3BA16# ±0.25pF GCM1555G1H2R3CA16# 2.4pF ±0.1pF GCM1555G1H2R4BA16# ±0.25pF GCM1555G1H2R4CA16# 2.5pF ±0.1pF GCM1555G1H2R5BA16# ±0.25pF GCM1555G1H2R5CA16# 2.6pF ±0.1pF GCM1555G1H2R6BA16#				·			
2.4pF ±0.1pF GCM1555G1H2R4BA16# ±0.25pF GCM1555G1H2R4CA16# 2.5pF ±0.1pF GCM1555G1H2R5BA16# ±0.25pF GCM1555G1H2R5CA16# 2.6pF ±0.1pF GCM1555G1H2R6BA16#				2.3pF	±0.1pF	GCM1555G1H2R3BA16#	
±0.25pF GCM1555G1H2R4CA16#  2.5pF ±0.1pF GCM1555G1H2R5BA16#  ±0.25pF GCM1555G1H2R5CA16#  2.6pF ±0.1pF GCM1555G1H2R6BA16#					±0.25pF	GCM1555G1H2R3CA16#	
2.5pF ±0.1pF <b>GCM1555G1H2R5BA16#</b> ±0.25pF <b>GCM1555G1H2R5CA16#</b> 2.6pF ±0.1pF <b>GCM1555G1H2R6BA16#</b>				2.4pF	±0.1pF	GCM1555G1H2R4BA16#	
±0.25pF GCM1555G1H2R5CA16#  2.6pF ±0.1pF GCM1555G1H2R6BA16#					±0.25pF	GCM1555G1H2R4CA16#	
2.6pF ±0.1pF <b>GCM1555G1H2R6BA16#</b>				2.5pF	±0.1pF	GCM1555G1H2R5BA16#	
					±0.25pF	GCM1555G1H2R5CA16#	
±0.25pF GCM1555G1H2R6CA16#				2.6pF	±0.1pF	GCM1555G1H2R6BA16#	
					±0.25pF	GCM1555G1H2R6CA16#	

(→ 1.0×	0.5mm	1)	•		•	
T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number	
0.55mm	50Vdc	X8G	2.7pF	±0.1pF	GCM1555G1H2R7BA16#	
				±0.25pF	GCM1555G1H2R7CA16#	
			2.8pF	±0.1pF	GCM1555G1H2R8BA16#	
				±0.25pF	GCM1555G1H2R8CA16#	
			2.9pF	±0.1pF	GCM1555G1H2R9BA16#	
				±0.25pF	GCM1555G1H2R9CA16#	
			3.0pF	±0.1pF	GCM1555G1H3R0BA16#	
				±0.25pF	GCM1555G1H3R0CA16#	
			3.1pF	±0.1pF	GCM1555G1H3R1BA16#	
				±0.25pF	GCM1555G1H3R1CA16#	
			3.2pF	±0.1pF	GCM1555G1H3R2BA16#	
				±0.25pF	GCM1555G1H3R2CA16#	
			3.3pF	±0.1pF	GCM1555G1H3R3BA16#	
				±0.25pF	GCM1555G1H3R3CA16#	
			3.4pF	±0.1pF	GCM1555G1H3R4BA16#	
				±0.25pF	GCM1555G1H3R4CA16#	
			3.5pF	±0.1pF	GCM1555G1H3R5BA16#	
				±0.25pF	GCM1555G1H3R5CA16#	
			3.6pF	±0.1pF	GCM1555G1H3R6BA16#	
				±0.25pF	GCM1555G1H3R6CA16#	
			3.7pF	±0.1pF	GCM1555G1H3R7BA16#	
				±0.25pF	GCM1555G1H3R7CA16#	
			3.8pF	±0.1pF	GCM1555G1H3R8BA16#	
				±0.25pF	GCM1555G1H3R8CA16#	
			3.9pF	±0.1pF	GCM1555G1H3R9BA16#	
				-	GCM1555G1H3R9CA16#	
			4.0pF	±0.1pF	GCM1555G1H4R0BA16#	
			41-5	-	GCM1555G1H4R0CA16#	
			4.1pF	<u> </u>	GCM1555G1H4R1BA16#	
			4.2pF		GCM1555G1H4R1CA16# GCM1555G1H4R2BA16#	
			4.2pi	<u> </u>	GCM1555G1H4R2CA16#	
			4.3pF	±0.1pF	GCM1555G1H4R3BA16#	
			1.501		GCM1555G1H4R3CA16#	
			4.4pF	±0.1pF	GCM1555G1H4R4BA16#	
				<u> </u>	GCM1555G1H4R4CA16#	
			4.5pF	· ·	GCM1555G1H4R5BA16#	
			·	-	GCM1555G1H4R5CA16#	
			4.6pF	±0.1pF	GCM1555G1H4R6BA16#	
				±0.25pF	GCM1555G1H4R6CA16#	
			4.7pF	±0.1pF	GCM1555G1H4R7BA16#	
				±0.25pF	GCM1555G1H4R7CA16#	
			4.8pF	±0.1pF	GCM1555G1H4R8BA16#	
				±0.25pF	GCM1555G1H4R8CA16#	
			4.9pF	±0.1pF	GCM1555G1H4R9BA16#	
				±0.25pF	GCM1555G1H4R9CA16#	
			5.0pF	±0.1pF	GCM1555G1H5R0BA16#	
				±0.25pF	GCM1555G1H5R0CA16#	
			5.1pF		GCM1555G1H5R1BA16#	
				-	GCM1555G1H5R1CA16#	
			5.2pF	±0.1pF	GCM1555G1H5R2BA16#	
				· ·	GCM1555G1H5R2CA16#	
			5.3pF	-	GCM1555G1H5R3BA16#	
				±0.25pF	GCM1555G1H5R3CA16#	

Т	Rated	TC	Cap.	Tol.	Part Number	
max.	Voltage	Code	5.4.5	0.1.5		
0.55mm	50Vdc	X8G	5.4pF	±0.1pF	GCM1555G1H5R4BA16#	
				· ·	GCM1555G1H5R4CA16#	
			5.5pF	±0.1pF		
			F.C.: F	· ·	GCM1555G1H5R5CA16#	
			5.6pF		GCM1555G1H5R6BA16#	
			F 7 . F		GCM1555G1H5R6CA16#	
			5.7pF	±0.1pF	GCM1555G1H5R7BA16#	
			F 0 - F		GCM1555G1H5R7CA16#	
			5.8pF	•	GCM1555G1H5R8BA16#	
			F 0 - F	-	GCM1555G1H5R8CA16#	
			5.9pF	±0.1pF		
			60.5		GCM1555G1H5R9CA16#	
			6.0pF		GCM1555G1H6R0BA16#	
			64.5		GCM1555G1H6R0CA16#	
			6.1pF		GCM1555G1H6R1BA16#	
			60.5		GCM1555G1H6R1CA16#	
			6.2pF	-	GCM1555G1H6R2BA16#	
					GCM1555G1H6R2CA16#	
			6.3pF		GCM1555G1H6R3BA16#	
			6.4.5		GCM1555G1H6R3CA16#	
			6.4pF		GCM1555G1H6R4BA16#	
			65.5		GCM1555G1H6R4CA16#	
			6.5pF	-	GCM1555G1H6R5BA16#	
			66.5		GCM1555G1H6R5CA16#	
			6.6pF	-	GCM1555G1H6R6BA16#	
			6.755		GCM1555G1H6R6CA16#	
			6.7pF	-	GCM1555G1H6R7BA16#	
			6.8pF		GCM1555G1H6R7CA16# GCM1555G1H6R8BA16#	
			о.орі	-	GCM1555G1H6R8CA16#	
			6.9pF	±0.1pF	GCM1555G1H6R9BA16#	
			0.561	-	GCM1555G1H6R9CA16#	
			7.0pF	±0.1pF	GCM1555G1H7R0BA16#	
			7.0рі		GCM1555G1H7R0CA16#	
			7.1pF		GCM1555G1H7R1BA16#	
			7.1pi		GCM1555G1H7R1CA16#	
			7.2pF		GCM1555G1H7R2BA16#	
			7.2pi		GCM1555G1H7R2CA16#	
			7.3pF		GCM1555G1H7R3BA16#	
			, .Spi		GCM1555G1H7R3CA16#	
			7.4pF	•	GCM1555G1H7R4BA16#	
					GCM1555G1H7R4CA16#	
			7.5pF	•	GCM1555G1H7R5BA16#	
			ор.		GCM1555G1H7R5CA16#	
			7.6pF		GCM1555G1H7R6BA16#	
					GCM1555G1H7R6CA16#	
			7.7pF		GCM1555G1H7R7BA16#	
					GCM1555G1H7R7CA16#	
			7.8pF		GCM1555G1H7R8BA16#	
					GCM1555G1H7R8CA16#	
			7.9pF	-	GCM1555G1H7R9BA16#	
					GCM1555G1H7R9CA16#	
			8.0pF		GCM1555G1H8R0BA16#	
				-	GCM1555G1H8R0CA16#	
	1					

Tol.   Part Number	(→ 1.0>	0.5mm	1)			
10.25pf   GCM1555G1H8R2BA16#   10.1pf   GCM1555G1H8R3BA16#   10.2pf   GCM1555G1H8R3BA16#   10.2pf   GCM1555G1H8R3BA16#   10.2pf   GCM1555G1H8R3BA16#   10.2pf   GCM1555G1H8R3BA16#   10.2pf   GCM1555G1H8R3BA16#   10.2pf   GCM1555G1H8R3BA16#   10.2pf   GCM1555G1H8R5BA16#   10.2pf   GCM1555G1H8R5BA16#   10.2pf   GCM1555G1H8R5BA16#   10.2pf   GCM1555G1H8R5BA16#   10.2pf   GCM1555G1H8R8CA16#   10.2pf   GCM1555G1H8R8CA16#   10.2pf   GCM1555G1H8R8CA16#   10.2pf   GCM1555G1H8R8CA16#   10.2pf   GCM1555G1H8R8CA16#   10.2pf   GCM1555G1H8R8CA16#   10.2pf   GCM1555G1H8R8CA16#   10.2pf   GCM1555G1H8R8CA16#   10.2pf   GCM1555G1H8R8CA16#   10.2pf   GCM1555G1H8R8CA16#   10.2pf   GCM1555G1H9R0BA16#   10.2pf   GCM1555G1H9R0BA16#   10.2pf   GCM1555G1H9R0BA16#   10.2pf   GCM1555G1H9R3BA16#   10.2pf   GCM1555G1H100A16#   10.2pf   GCM1555G1H100A16#   10.2pf   GCM1555G1H100A16#   10.2pf   GCM1555G1H100A16#   10.2pf   GCM155G1H100A16#   10.2pf   GCM155G1H100A16#   10.2pf   GC	T max.			Cap.	Tol.	Part Number
8.2pF	0.55mm	50Vdc	X8G	8.1pF	±0.1pF	GCM1555G1H8R1BA16#
### 10.25pF   CM1555G1H8R2CA16#   ### 10.25pF   CM1555G1H8R3BA16#   ### 10.25pF   CM1555G1H8R3CA16#   ### 10.25pF   CM1555G1H8R3CA16#   ### 10.25pF   CM1555G1H8R5CA16#   ### 10.25pF   CM1555G1H8R5CA16#   ### 10.25pF   CM1555G1H8R5CA16#   ### 10.25pF   CM1555G1H8R6CA16#   ### 10.25pF   CM1555G1H8R6CA16#   ### 10.25pF   CM1555G1H8R6CA16#   ### 10.25pF   CM1555G1H8R6CA16#   ### 10.25pF   CM1555G1H8R6CA16#   ### 10.25pF   CM1555G1H8R6CA16#   ### 10.25pF   CM1555G1H8R8CA16#   ### 10.25pF   CM1555G1H8R8CA16#   ### 10.25pF   CM1555G1H8R9CA16#   ### 10.25pF   CM1555G1H8R9CA16#   ### 10.25pF   CM1555G1H9R0CA16#   ### 10.25pF   CM1555G1H9R0CA16#   ### 10.25pF   CM1555G1H9R0CA16#   ### 10.25pF   CM1555G1H9R1CA16#   ### 10.25pF   CM1555G1H9R2CA16#   ### 10.25pF   CM1555G1H9R3CA16#   ### 10.25pF   CM1555G1H9R3CA16#   ### 10.25pF   CM1555G1H9R3CA16#   ### 10.25pF   CM1555G1H9R3CA16#   ### 10.25pF   CM1555G1H9R3CA16#   ### 10.25pF   CM1555G1H9R3CA16#   ### 10.25pF   CM1555G1H9R3CA16#   ### 10.25pF   CM1555G1H9R3CA16#   ### 10.25pF   CM1555G1H9R3CA16#   ### 10.25pF   CM1555G1H9R3CA16#   ### 10.25pF   CM1555G1H9R3CA16#   ### 10.25pF   CM1555G1H9R3CA16#   ### 10.25pF   CM1555G1H9R5CA16#   ### 10.25pF   CM1555G1H9R5CA16#   ### 10.25pF   CM1555G1H9R5CA16#   ### 10.25pF   CM1555G1H9R8CA16#   ### 10.25pF   CM1555G1H9R8CA16#   ### 10.25pF   CM1555G1H9R8CA16#   ### 10.25pF   CM1555G1H9R8CA16#   ### 10.25pF   CM1555G1H9R8CA16#   ### 10.25pF   CM1555G1H9R8CA16#   ### 10.25pF   CM1555G1H9R8CA16#   ### 10.25pF   CM1555G1H9R8CA16#   ### 10.25pF   CM1555G1H9R8CA16#   ### 10.25pF   CM1555G1H9R6CA16#   ### 10.25pF   CM1555G1H9R6CA16#   ### 10.25pF   CM1555G1H9R6CA16#   ### 10.25pF   CM1555G1H9R6CA16#   ### 10.25pF   CM1555G1H9R6CA16#   ### 10.25pF   CM1555G1H9R6CA16#   ### 10.25pF   CM1555G1H9R6CA16#   ### 10.25pF   CM1555G1H9R6CA16#   ### 10.25pF   CM1555G1H9R6CA16#   ### 10.25pF   CM1555G1H9R6CA16#   ### 10.25pF   CM1555G1H9R6CA16#   ### 10.25pF   CM1555G1H9R6CA16#   ### 10.25pF   CM1555G1H9R6CA16#   ### 10.25pF   CM1555G1H9R6CA16#   ### 10					±0.25pF	GCM1555G1H8R1CA16#
8.3pF ±0.1pF   ±0.1pF   GCM1555G1H8R3BA16#   ±0.25pF   GCM1555G1H8R4CA16#   ±0.25pF   GCM1555G1H8R5A16#   ±0.25pF   GCM1555G1H8R6CA16#   ±0.25pF   GCM1555G1H8R6CA16#   ±0.25pF   GCM1555G1H8R7CA16#   ±0.25pF   GCM1555G1H8R7CA16#   ±0.25pF   GCM1555G1H8R7CA16#   ±0.25pF   GCM1555G1H8R7CA16#   ±0.25pF   GCM1555G1H8R7CA16#   ±0.25pF   GCM1555G1H8R7CA16#   ±0.25pF   GCM1555G1H8R9CA16#   ±0.25pF   GCM1555G1H8R9CA16#   ±0.25pF   GCM1555G1H8R9CA16#   ±0.25pF   GCM1555G1H8R9CA16#   ±0.25pF   GCM1555G1H8R9CA16#   ±0.25pF   GCM1555G1H9R0CA16#   ±0.25pF   GCM1555G1H9R0CA16#   ±0.25pF   GCM1555G1H9R1CA16#   ±0.25pF   GCM1555G1H9R1CA16#   ±0.25pF   GCM1555G1H9R2CA16#   ±0.25pF   GCM1555G1H9R2CA16#   ±0.25pF   GCM1555G1H9R3CA16#   ±0.25pF   GCM1555G1H0OA16#   ±0.25pF   GCM1555G1H0OA16#   ±0.25pF   GCM1555G1H0OA16#   ±0.25pF   GCM1555G1H0OA16#   ±0.25pF   GCM1555G1H0OA16#   ±0.25pF   GCM1555G1H10OA16#   ±0.25pF   GCM1555G1H10OA16#   ±0.25pF   GCM1555G1H10OA16#   ±0.25pF   GCM1555G1H10OA16#   ±0.25pF   GCM1555G1H10OA16#   ±0.25pF   GCM1555G1H10OA16#   ±0.25pF   GCM1555G1H10OA16#   ±0.25pF   GCM1555G1H10OA16#   ±0.25pF   GCM1555G1H10OA16#   ±0.25pF   GCM1555G1H10OA16#   ±0.25pF   GCM1555G1H10OA16#   ±0.25pF   GCM1555G1H10OA16#   ±0.25pF				8.2pF	±0.1pF	GCM1555G1H8R2BA16#
### 10.25pF   GCM1555G1H8R3CA16#   ### 20.25pF   GCM1555G1H8R4CA16#   ### 20.25pF   GCM1555G1H8R5ACA16#   ### 20.25pF   GCM1555G1H8R5ACA16#   ### 20.25pF   GCM1555G1H8R5ACA16#   ### 20.25pF   GCM1555G1H8R5ACA16#   ### 20.25pF   GCM1555G1H8R5ACA16#   ### 20.25pF   GCM1555G1H8R5ACA16#   ### 20.25pF   GCM1555G1H8R5ACA16#   ### 20.25pF   GCM1555G1H8R5ACA16#   ### 20.25pF   GCM1555G1H8R5ACA16#   ### 20.25pF   GCM1555G1H8R8ACA16#   ### 20.25pF   GCM1555G1H8R8ACA16#   ### 20.25pF   GCM1555G1H8RBACA16#   ### 20.25pF   GCM1555G1H8R9CA16#   ### 20.25pF   GCM1555G1H8R9CA16#   ### 20.25pF   GCM1555G1H9R1CA16#   ### 20.25pF   GCM1555G1H9R1CA16#   ### 20.25pF   GCM1555G1H9R1CA16#   ### 20.25pF   GCM1555G1H9R3AA16#   ### 20.25pF   GCM1555G1H9R3AA16#   ### 20.25pF   GCM1555G1H9R3AA16#   ### 20.25pF   GCM1555G1H9R4BA16#   ### 20.25pF   GCM1555G1H9R4BA16#   ### 20.25pF   GCM1555G1H9R4CA16#   ### 20.25pF   GCM1555G1H9R4CA16#   ### 20.25pF   GCM1555G1H9R6CA16#   ### 20.25pF   GCM1555G1H0OA16#   ### 20.25pF   GCM1555G1H0OA16#   ### 20.2					±0.25pF	GCM1555G1H8R2CA16#
8.4pF				8.3pF	±0.1pF	GCM1555G1H8R3BA16#
10.25pF   10.1pF   10.1pF   10.25pF   10.1pF   10.25pF   10.1pF   10.25pF   10.1pF   10.25pF   10.1pF   10.25pF   10.1pF   10.25pF   10.1pF   10.25pF   10					±0.25pF	GCM1555G1H8R3CA16#
8.5pF ±0.1pF   ±0.25pF   ±0.25pF   ±0.2				8.4pF	±0.1pF	GCM1555G1H8R4BA16#
#0.25pF GCM1555G1H8R6A16# #0.25pF GCM1555G1H8R6A16# #0.25pF GCM1555G1H8R6A16# #0.25pF GCM1555G1H8R6A16# #0.25pF GCM1555G1H8R6A16# #0.25pF GCM1555G1H8R6A16# #0.25pF GCM1555G1H8R8A16# #0.25pF GCM1555G1H8R8A16# #0.25pF GCM1555G1H8R8A16# #0.25pF GCM1555G1H8R8A16# #0.25pF GCM1555G1H8R9A16# #0.25pF GCM1555G1H9R0A16# #0.25pF GCM1555G1H9R0A16# #0.25pF GCM1555G1H9R1BA16# #0.25pF GCM1555G1H9R1BA16# #0.25pF GCM1555G1H9R1BA16# #0.25pF GCM1555G1H9R2A16# #0.25pF GCM1555G1H9R2A16# #0.25pF GCM1555G1H9R2A16# #0.25pF GCM1555G1H9R3BA16# #0.25pF GCM1555G1H9R3BA16# #0.25pF GCM1555G1H9R3BA16# #0.25pF GCM1555G1H9R3BA16# #0.25pF GCM1555G1H9R3BA16# #0.25pF GCM1555G1H9R3BA16# #0.25pF GCM1555G1H9R6A16# #0.25pF GCM1555G1H9R6A16# #0.25pF GCM1555G1H9R6A16# #0.25pF GCM1555G1H9R6A16# #0.25pF GCM1555G1H9R6A16# #0.25pF GCM1555G1H9R6A16# #0.25pF GCM1555G1H9R6A16# #0.25pF GCM1555G1H9R6A16# #0.25pF GCM1555G1H9R6A16# #0.25pF GCM1555G1H9R6A16# #0.25pF GCM1555G1H9R6A16# #0.25pF GCM1555G1H9R6A16# #0.25pF GCM1555G1H9R6A16# #0.25pF GCM1555G1H9R6A16# #0.25pF GCM1555G1H9R6A16# #0.25pF GCM1555G1H9R6A16# #0.25pF GCM1555G1H9R9A16# #0.25pF GCM1555G1H9R9A16# #0.25pF GCM1555G1H9R9A16# #0.25pF GCM1555G1H9R9A16# #0.25pF GCM1555G1H9R9A16# #0.25pF GCM1555G1H0OA16# #0.25pF GCM1555G1H0OA16# #0.25pF GCM1555G1H10OA16# #0.25pF GCM					±0.25pF	GCM1555G1H8R4CA16#
8.6pF ±0.2pF GCM1555G1H8R6BA16# ±0.25pF GCM1555G1H8R7CA16#   8.8pF ±0.1pF GCM1555G1H8R7CA16#   8.8pF ±0.1pF GCM1555G1H8R8A16# ±0.25pF GCM1555G1H8R9BA16# ±0.25pF GCM1555G1H8R9CA16#   9.0pF ±0.1pF GCM1555G1H8R9CA16#   9.0pF ±0.1pF GCM1555G1H8R9CA16#   9.1pF ±0.1pF GCM1555G1H9R0CA16#   9.2pF GCM1555G1H9R0CA16#   9.2pF ±0.1pF GCM1555G1H9R1BA16#   ±0.25pF GCM1555G1H9R1CA16#   9.3pF ±0.1pF GCM1555G1H9R2BA16#   ±0.25pF GCM1555G1H9R3BA16#   ±0.25pF GCM1555G1H0GA16#   ±2% GCM1555G1H13GA16#   ±2% GCM1555G1H13GA16#   ±2% GCM1555G1H13GA16#   ±2% GCM1555G1H13GA16#   ±2% GCM1555G1H13GA16#   ±2% GCM1555G1H13GA16#				8.5pF	±0.1pF	GCM1555G1H8R5BA16#
## ## ## ## ## ## ## ## ## ## ## ## ##					±0.25pF	GCM1555G1H8R5CA16#
8.7pF ±0.1pF GCM1555G1H8R7BA16# ±0.25pF GCM1555G1H8R8A16# ±0.25pF GCM1555G1H8R8A16# ±0.25pF GCM1555G1H8R8A16# ±0.25pF GCM1555G1H8R8CA16# 9.0pF ±0.1pF GCM1555G1H8R9CA16# 9.1pF ±0.25pF GCM1555G1H9R0BA16# ±0.25pF GCM1555G1H9R0BA16# ±0.25pF GCM1555G1H9R1BA16# ±0.25pF GCM1555G1H9R2BA16# ±0.25pF GCM1555G1H9R2BA16# ±0.25pF GCM1555G1H9R2BA16# ±0.25pF GCM1555G1H9R3BA16# ±0.25pF GCM1555G1H9R3BA16# ±0.25pF GCM1555G1H9R3BA16# ±0.25pF GCM1555G1H9R3BA16# ±0.25pF GCM1555G1H9R3BA16# ±0.25pF GCM1555G1H9R3BA16# ±0.25pF GCM1555G1H9R3BA16# ±0.25pF GCM1555G1H9R3BA16# ±0.25pF GCM1555G1H9R3BA16# ±0.25pF GCM1555G1H9R6BA16# ±0.25pF GCM1555G1H9R6BA16# ±0.25pF GCM1555G1H9R6BA16# ±0.25pF GCM1555G1H9R6BA16# ±0.25pF GCM1555G1H9R6BA16# ±0.25pF GCM1555G1H9R6BA16# ±0.25pF GCM1555G1H9R6BA16# ±0.25pF GCM1555G1H9R6BA16# ±0.25pF GCM1555G1H9R6BA16# ±0.25pF GCM1555G1H9R6CA16# ±2.5% GCM1555G1H100A16# ±2.5% GCM1555G1H100A16# ±2.5% GCM1555G1H100A16# ±2.5% GCM1555G1H10AA16# ±2.5% GCM1555G1H10AA16# ±2.5% GCM1555G1H10AA16# ±2.5% GCM1555G1H10AA16# ±2.5% GCM1555G1H10AA16# ±2.5% GCM1555G1H10AA16# ±2.5% GCM1555G1H10AA16# ±2.5% GCM1555G1H10AA16# ±2.5% GCM1555G1H10AA16# ±2.5% GCM1555G1H10AA16# ±2.5% GCM1555G1H10AA16# ±2.5% GCM1555G1H13AA16# ±2.5% GCM1555G1H13AA16# ±2.5% GCM1555G1H13AA16# ±2.5% GCM1555G1H13AA16# ±2.5% GCM1555G1H13AA16# ±2.5% GCM1555G1H13AA16# ±2.5% GCM1555G1H13AA16# ±2.5% GCM1555G1H13AA16# ±2.5% GCM1555G1H13AA16# ±2.5% GCM1555G1H13AA16# ±2.5% GCM1555G1H13AA16# ±2.5% GCM1555G1H13AA16# ±2.5% GCM1555G1H13AA16# ±2.5% GCM1555G1H13A				8.6pF	±0.1pF	GCM1555G1H8R6BA16#
## 10.25pF GCM1555G1H8RBA16# ## 10.25pF GCM1555G1H8RBA16# ## 10.25pF GCM1555G1H8RBA16# ## 10.25pF GCM1555G1H8RBA16# ## 10.25pF GCM1555G1H8RBA16# ## 10.25pF GCM1555G1H9RBA16# ## 10.25pF GCM1555G1H0OA16# ## 11pF ## 11					±0.25pF	GCM1555G1H8R6CA16#
8.8pF ±0.1pF continues to the continue of the				8.7pF	±0.1pF	GCM1555G1H8R7BA16#
### 10.25pF   ### 20.25pF   ##					±0.25pF	GCM1555G1H8R7CA16#
8.9pF ±0.1pF consists of the second state of t				8.8pF	±0.1pF	GCM1555G1H8R8BA16#
#0.25pF   #0.1pF   #0.1pF   #0.25pF   #0.25pF   #0.25pF   #0.1pF   #0.25pF					±0.25pF	GCM1555G1H8R8CA16#
### 10.25pF   ##				8.9pF	±0.1pF	GCM1555G1H8R9BA16#
9.0pF ±0.1pF GCM1555G1H9R0BA16# ±0.25pF GCM1555G1H9R1BA16# ±0.25pF GCM1555G1H9R1BA16# ±0.25pF GCM1555G1H9R2BA16# ±0.25pF GCM1555G1H9R2BA16# ±0.25pF GCM1555G1H9R3BA16# ±0.25pF GCM1555G1H9R3BA16# ±0.25pF GCM1555G1H9R3BA16# ±0.25pF GCM1555G1H9R3BA16# ±0.25pF GCM1555G1H9R3BA16# ±0.25pF GCM1555G1H9R3BA16# ±0.25pF GCM1555G1H9R3BA16# ±0.25pF GCM1555G1H9R5BA16# ±0.25pF GCM1555G1H9R5BA16# ±0.25pF GCM1555G1H9R6BA16# ±0.25pF GCM1555G1H9R6BA16# ±0.25pF GCM1555G1H9R7BA16# ±0.25pF GCM1555G1H9R7BA16# ±0.25pF GCM1555G1H9R8BA16# ±0.25pF GCM1555G1H9R8BA16# ±0.25pF GCM1555G1H9R8BA16# ±0.25pF GCM1555G1H9R8BA16# ±0.25pF GCM1555G1H9R9BA16# ±0.25pF GCM1555G1H9R9BA16# ±0.25pF GCM1555G1H00FA16# ±2% GCM1555G1H100FA16# ±2% GCM1555G1H100FA16# ±2% GCM1555G1H100JA16# 11pF ±1% GCM1555G1H10JA16# ±5% GCM1555G1H10JA16# ±5% GCM1555G1H10JA16# ±5% GCM1555G1H10JA16# ±2% GCM1555G1H10JA16# ±2% GCM1555G1H10JA16# ±2% GCM1555G1H10JA16# ±2% GCM1555G1H10JA16# ±2% GCM1555G1H10JA16# ±2% GCM1555G1H10JA16# ±2% GCM1555G1H10JA16# ±2% GCM1555G1H10JA16# ±2% GCM1555G1H130JA16# ±2% GCM1555G1H150GA16# ±2% GCM1555G1H150GA16# ±2% GCM1555G1H150GA16# ±2% GCM1555G1H150GA16# ±2% GCM1555G1H150GA16# ±2% GCM1555G1H150GA16# ±2% GCM1555G1H150GA16# ±2% GCM1555G1H150GA16# ±2% GCM1555G1H150GA16# ±2% GCM1555G1H150GA16# ±2% GCM1555G1H150GA16# ±2% GCM1555G1H150GA16# ±2% GCM1555G1H150GA16# ±2% GCM1555G1H150GA16# ±2% GCM1555G1H150GA16# ±2% GCM1555G1H150GA16# ±2% GCM1555G1H150						GCM1555G1H8R9CA16#
#0.25pF GCM1555G1H9R0CA16#  9.1pF #0.1pF GCM1555G1H9R1BA16# #0.25pF GCM1555G1H9R2BA16# #0.25pF GCM1555G1H9R2BA16# #0.25pF GCM1555G1H9R2BA16# #0.25pF GCM1555G1H9R3BA16# #0.25pF GCM1555G1H9R3BA16# #0.25pF GCM1555G1H9R3BA16# #0.25pF GCM1555G1H9R4BA16# #0.25pF GCM1555G1H9R4BA16# #0.25pF GCM1555G1H9R4BA16# #0.25pF GCM1555G1H9R5BA16# #0.25pF GCM1555G1H9R5BA16# #0.25pF GCM1555G1H9R6BA16# #0.25pF GCM1555G1H9R6BA16# #0.25pF GCM1555G1H9R6BA16# #0.25pF GCM1555G1H9R8BA16# #0.25pF GCM1555G1H9R8BA16# #0.25pF GCM1555G1H9R8BA16# #0.25pF GCM1555G1H9R8BA16# #0.25pF GCM1555G1H9R8BA16# #0.25pF GCM1555G1H9R8BA16# #0.25pF GCM1555G1H9R9BA16# #0.25pF GCM1555G1H9R9CA16# #0.25pF GCM1555G1H100FA16# #25% GCM1555G1H100FA16# #25% GCM1555G1H100FA16# #25% GCM1555G1H10JA16#				9.0pF	· ·	
#0.25pF GCM1555G1H9R2BA16# #0.25pF GCM1555G1H9R2BA16# #0.25pF GCM1555G1H9R3BA16# #0.25pF GCM1555G1H9R3BA16# #0.25pF GCM1555G1H9R3BA16# #0.25pF GCM1555G1H9R3BA16# #0.25pF GCM1555G1H9R4BA16# #0.25pF GCM1555G1H9R4BA16# #0.25pF GCM1555G1H9R5BA16# #0.25pF GCM1555G1H9R5BA16# #0.25pF GCM1555G1H9R5BA16# #0.25pF GCM1555G1H9R6BA16# #0.25pF GCM1555G1H9R6BA16# #0.25pF GCM1555G1H9R6BA16# #0.25pF GCM1555G1H9R7BA16# #0.25pF GCM1555G1H9R7BA16# #0.25pF GCM1555G1H9R8BA16# #0.25pF GCM1555G1H9R8BA16# #0.25pF GCM1555G1H9R8BA16# #0.25pF GCM1555G1H9R9BA16# #0.25pF GCM1555G1H9R9BA16# #0.25pF GCM1555G1H9R9BA16# #0.25pF GCM1555G1H10GA16# #22% GCM1555G1H10GA16# #25% GCM1555G1H10GA16# #25% GCM1555G1H10GA16# #25% GCM1555G1H10GA16# #25% GCM1555G1H10GA16# #25% GCM1555G1H10GA16# #25% GCM1555G1H10GA16# #25% GCM1555G1H130GA16# #25% GCM1555G1H130GA16# #25% GCM1555G1H130GA16# #25% GCM1555G1H130GA16# #25% GCM1555G1H130GA16# #25% GCM1555G1H130GA16# #25% GCM1555G1H130GA16# #25% GCM1555G1H130GA16# #25% GCM1555G1H130GA16# #25% GCM1555G1H130GA16#					±0.25pF	GCM1555G1H9R0CA16#
#0.25pF GCM1555G1H9R2BA16# #0.25pF GCM1555G1H9R2BA16# #0.25pF GCM1555G1H9R3BA16# #0.25pF GCM1555G1H9R3BA16# #0.25pF GCM1555G1H9R3BA16# #0.25pF GCM1555G1H9R3BA16# #0.25pF GCM1555G1H9R4BA16# #0.25pF GCM1555G1H9R4BA16# #0.25pF GCM1555G1H9R5BA16# #0.25pF GCM1555G1H9R5BA16# #0.25pF GCM1555G1H9R5BA16# #0.25pF GCM1555G1H9R6BA16# #0.25pF GCM1555G1H9R6BA16# #0.25pF GCM1555G1H9R6BA16# #0.25pF GCM1555G1H9R7BA16# #0.25pF GCM1555G1H9R7BA16# #0.25pF GCM1555G1H9R8BA16# #0.25pF GCM1555G1H9R8BA16# #0.25pF GCM1555G1H9R8BA16# #0.25pF GCM1555G1H9R9BA16# #0.25pF GCM1555G1H9R9BA16# #0.25pF GCM1555G1H9R9BA16# #0.25pF GCM1555G1H10GA16# #22% GCM1555G1H10GA16# #25% GCM1555G1H10GA16# #25% GCM1555G1H10GA16# #25% GCM1555G1H10GA16# #25% GCM1555G1H10GA16# #25% GCM1555G1H10GA16# #25% GCM1555G1H10GA16# #25% GCM1555G1H130GA16# #25% GCM1555G1H130GA16# #25% GCM1555G1H130GA16# #25% GCM1555G1H130GA16# #25% GCM1555G1H130GA16# #25% GCM1555G1H130GA16# #25% GCM1555G1H130GA16# #25% GCM1555G1H130GA16# #25% GCM1555G1H130GA16# #25% GCM1555G1H130GA16#				9.1pF	· ·	
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#0.25pF GCM1555G1H9R3BA16# #0.25pF GCM1555G1H9R3BA16# #0.25pF GCM1555G1H9R3BA16# #0.25pF GCM1555G1H9R4BA16# #0.25pF GCM1555G1H9R4BA16# #0.25pF GCM1555G1H9R5BA16# #0.25pF GCM1555G1H9R5BA16# #0.25pF GCM1555G1H9R5BA16# #0.25pF GCM1555G1H9R6BA16# #0.25pF GCM1555G1H9R6BA16# #0.25pF GCM1555G1H9R7BA16# #0.25pF GCM1555G1H9R7BA16# #0.25pF GCM1555G1H9R8BA16# #0.25pF GCM1555G1H9R8BA16# #0.25pF GCM1555G1H9R8BA16# #0.25pF GCM1555G1H9R9BA16# #0.25pF GCM1555G1H9R9BA16# #0.25pF GCM1555G1H100FA16# #2% GCM1555G1H100FA16# #2% GCM1555G1H100JA16# #1pF #1% GCM1555G1H10GA16# #2% GCM1555G1H10JA16# #2% GCM1555G1H10JA16# #1pF #1% GCM1555G1H10JA16# #2% GCM1555G1H10JA16# #2% GCM1555G1H10JA16# #2% GCM1555G1H10JA16# #2% GCM1555G1H10JA16# #2% GCM1555G1H10JA16# #2% GCM1555G1H10JA16# #2% GCM1555G1H130FA16# #2% GCM1555G1H130FA16# #25% GCM1555G1H130FA16# #25% GCM1555G1H130JA16# #25% GCM1555G1H130JA16#				9.2pF	-	
9.3pF ±0.1pF GCM1555G1H9R3BA16# ±0.25pF GCM1555G1H9R4CA16# 9.4pF ±0.1pF GCM1555G1H9R4CA16# ±0.25pF GCM1555G1H9R5BA16# ±0.25pF GCM1555G1H9R5CA16# 40.25pF GCM1555G1H9R5CA16# 40.25pF GCM1555G1H9R6BA16# ±0.25pF GCM1555G1H9R6CA16# 9.7pF ±0.1pF GCM1555G1H9R7BA16# ±0.25pF GCM1555G1H9R8BA16# ±0.25pF GCM1555G1H9R8CA16# 9.9pF ±0.1pF GCM1555G1H9R8CA16# 40.25pF GCM1555G1H9R9BA16# ±0.25pF GCM1555G1H9R9BA16# ±0.25pF GCM1555G1H9R9BA16# ±0.25pF GCM1555G1H9R9CA16# 40.25pF GCM1555G1H00FA16# ±2% GCM1555G1H100FA16# ±2% GCM1555G1H100FA16# ±2.5% GCM1555G1H100FA16# ±5% GCM1555G1H10JA16# 11pF ±1% GCM1555G1H10JA16# ±5% GCM1555G1H10JA16# ±5% GCM1555G1H10JA16# ±5% GCM1555G1H10JA16# ±2% GCM1555G1H120FA16# ±5% GCM1555G1H120FA16# ±5% GCM1555G1H120JA16# 13pF ±1% GCM1555G1H130JA16# ±5% GCM1555G1H130JA16# ±5% GCM1555G1H130JA16# ±5% GCM1555G1H130JA16# ±5% GCM1555G1H130JA16# ±5% GCM1555G1H130JA16# ±5% GCM1555G1H130JA16# ±5% GCM1555G1H130JA16# ±5% GCM1555G1H130JA16# ±5% GCM1555G1H130JA16# ±5% GCM1555G1H130JA16# ±1% GCM1555G1H130JA16# ±2% GCM1555G1H130JA16# ±5% GCM1555G1H130JA16# ±2% GCM1555G1H130JA16# ±5% GCM1555G1H130JA16# ±5% GCM1555G1H130JA16# ±5% GCM1555G1H130JA16# ±2% GCM1555G1H130JA16# ±2% GCM1555G1H130JA16# ±2% GCM1555G1H130JA16# ±2% GCM1555G1H130JA16# ±2% GCM1555G1H130JA16#				·	-	
#0.25pF GCM1555G1H9R3CA16#  9.4pF				9.3pF	· ·	
9.4pF ±0.1pF GCM1555G1H9R4BA16# ±0.25pF GCM1555G1H9R5BA16# ±0.25pF GCM1555G1H9R5CA16# 9.5pF ±0.1pF GCM1555G1H9R5CA16# 9.6pF ±0.1pF GCM1555G1H9R6BA16# ±0.25pF GCM1555G1H9R6CA16# 9.7pF ±0.1pF GCM1555G1H9R7BA16# ±0.25pF GCM1555G1H9R8BA16# ±0.25pF GCM1555G1H9R8CA16# 9.9pF ±0.1pF GCM1555G1H9R8CA16# 9.9pF ±0.1pF GCM1555G1H9R9BA16# ±0.25pF GCM1555G1H9R9BA16# ±0.25pF GCM1555G1H00GA16# ±2% GCM1555G1H100GA16# ±2% GCM1555G1H100GA16# ±2% GCM1555G1H100GA16# ±5% GCM1555G1H10GA16# ±5% GCM1555G1H10GA16# ±5% GCM1555G1H10GA16# ±5% GCM1555G1H10GA16# ±5% GCM1555G1H10GA16# ±5% GCM1555G1H10GA16# ±5% GCM1555G1H10GA16# ±5% GCM1555G1H10GA16# ±5% GCM1555G1H120GA16# ±5% GCM1555G1H120GA16# ±5% GCM1555G1H120GA16# ±5% GCM1555G1H130GA16# ±5% GCM1555G1H130GA16# ±5% GCM1555G1H130GA16# ±5% GCM1555G1H130JA16# ±5% GCM1555G1H130JA16# ±5% GCM1555G1H130JA16# ±5% GCM1555G1H130JA16# ±5% GCM1555G1H130JA16# ±5% GCM1555G1H130JA16# ±5% GCM1555G1H130JA16# ±5% GCM1555G1H130JA16# ±5% GCM1555G1H130JA16# ±5% GCM1555G1H130JA16# ±5% GCM1555G1H130JA16# ±5% GCM1555G1H150GA16# ±5% GCM1555G1H150GA16# ±2% GCM1555G1H150GA16#						
#0.25pF GCM1555G1H9R4CA16#  #0.25pF GCM1555G1H9R5BA16# #0.25pF GCM1555G1H9R6BA16# #0.25pF GCM1555G1H9R6BA16# #0.25pF GCM1555G1H9R6CA16#  9.7pF #0.1pF GCM1555G1H9R7BA16# #0.25pF GCM1555G1H9R7BA16# #0.25pF GCM1555G1H9R8BA16# #0.25pF GCM1555G1H9R8BA16# #0.25pF GCM1555G1H9R8CA16#  9.8pF #0.1pF GCM1555G1H9R8CA16#  9.9pF #0.1pF GCM1555G1H9R9BA16# #0.25pF GCM1555G1H9R9CA16# #0.25pF GCM1555G1H100FA16# #10pF #1% GCM1555G1H100FA16# #2% GCM1555G1H100FA16# #25% GCM1555G1H100FA16# #25% GCM1555G1H10JA16#  11pF #1% GCM1555G1H10JA16# #2% GCM1555G1H110JA16# #2% GCM1555G1H120FA16# #2% GCM1555G1H120FA16# #2% GCM1555G1H120FA16# #2% GCM1555G1H130FA16# #2% GCM1555G1H130FA16# #2% GCM1555G1H130FA16# #2% GCM1555G1H130FA16# #2% GCM1555G1H130FA16# #2% GCM1555G1H130FA16# #2% GCM1555G1H130FA16# #25% GCM1555G1H130FA16# #25% GCM1555G1H130FA16# #25% GCM1555G1H130FA16# #25% GCM1555G1H130FA16# #25% GCM1555G1H130FA16# #25% GCM1555G1H130FA16# #25% GCM1555G1H130FA16#				9.4pF	-	
9.5pF ±0.1pF GCM1555G1H9R5BA16# ±0.25pF GCM1555G1H9R6BA16# ±0.25pF GCM1555G1H9R6BA16# ±0.25pF GCM1555G1H9R6BA16# ±0.25pF GCM1555G1H9R7BA16# ±0.25pF GCM1555G1H9R7BA16# ±0.25pF GCM1555G1H9R8BA16# ±0.25pF GCM1555G1H9R8BA16# ±0.25pF GCM1555G1H9R8BA16# ±0.25pF GCM1555G1H9R9BA16# ±0.25pF GCM1555G1H9R9BA16# ±0.25pF GCM1555G1H9R9PAA16# ±0.25pF GCM1555G1H100FA16# ±2% GCM1555G1H100FA16# ±2% GCM1555G1H100FA16# ±5% GCM1555G1H100FA16# ±5% GCM1555G1H10A16# ±5% GCM1555G1H10A16# ±1% GCM1555G1H10A16# ±2% GCM1555G1H10A16# ±2% GCM1555G1H120FA16# ±2% GCM1555G1H120FA16# ±2% GCM1555G1H130FA16# ±5% GCM1555G1H130FA16# ±2% GCM1555G1H130FA16# ±2% GCM1555G1H130FA16# ±2% GCM1555G1H130FA16# ±2% GCM1555G1H130FA16# ±2% GCM1555G1H130FA16# ±2% GCM1555G1H130FA16#				Jp.		
#0.25pF GCM1555G1H9R5CA16#  9.6pF				9 5nF	-	
9.6pF ±0.1pF GCM1555G1H9R6BA16# ±0.25pF GCM1555G1H9R7BA16# ±0.25pF GCM1555G1H9R7CA16# 9.8pF ±0.1pF GCM1555G1H9R8BA16# ±0.25pF GCM1555G1H9R8BA16# ±0.25pF GCM1555G1H9R8BA16# ±0.25pF GCM1555G1H9R9BA16# ±0.25pF GCM1555G1H9R9BA16# ±0.25pF GCM1555G1H9R9CA16# ±1% GCM1555G1H100FA16# ±2% GCM1555G1H100FA16# ±2.5% GCM1555G1H100FA16# ±5% GCM1555G1H100JA16#  11pF ±1% GCM1555G1H10JA16# ±2% GCM1555G1H110JA16# ±5% GCM1555G1H110JA16# ±5% GCM1555G1H120JA16# ±5% GCM1555G1H120JA16# ±2% GCM1555G1H130JA16# ±5% GCM1555G1H130JA16# ±5% GCM1555G1H130JA16# ±5% GCM1555G1H130JA16# ±5% GCM1555G1H130JA16# ±5% GCM1555G1H130JA16# ±5% GCM1555G1H130JA16#				3.5pi	-	
#0.25pF GCM1555G1H9R6CA16#  9.7pF				9 6nF	-	
9.7pF ±0.1pF GCM1555G1H9R7BA16# ±0.25pF GCM1555G1H9R8BA16# ±0.25pF GCM1555G1H9R8BA16# ±0.25pF GCM1555G1H9R9BA16# ±0.25pF GCM1555G1H9R9BA16# ±0.25pF GCM1555G1H9R9CA16#  10pF ±1% GCM1555G1H100FA16# ±2% GCM1555G1H100FA16# ±5% GCM1555G1H100JA16#  11pF ±1% GCM1555G1H100JA16#  ±5% GCM1555G1H110GA16# ±2% GCM1555G1H10JA16# ±5% GCM1555G1H10JA16#  12pF ±1% GCM1555G1H120JA16# ±2% GCM1555G1H120JA16# ±2% GCM1555G1H120JA16# ±5% GCM1555G1H130FA16# ±5% GCM1555G1H130FA16# ±5% GCM1555G1H130JA16#  13pF ±1% GCM1555G1H130JA16#  ±5% GCM1555G1H130JA16#  ±5% GCM1555G1H130JA16#  ±5% GCM1555G1H130JA16#				э.орі		
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#0.25pF GCM1555G1H9R8CA16#  9.9pF				0 0nE	-	
9.9pF ±0.1pF GCM1555G1H9R9BA16# ±0.25pF GCM1555G1H9R9CA16#  10pF ±1% GCM1555G1H100FA16# ±2% GCM1555G1H100GA16# ±2.5% GCM1555G1H100GA16#  ±5% GCM1555G1H100JA16#  11pF ±1% GCM1555G1H110FA16# ±2% GCM1555G1H110GA16#  ±5% GCM1555G1H120FA16#  ±5% GCM1555G1H120FA16#  ±2% GCM1555G1H120JA16#  13pF ±1% GCM1555G1H130FA16#  ±2% GCM1555G1H130FA16#  ±5% GCM1555G1H130JA16#  15pF ±1% GCM1555G1H130JA16#  15pF ±1% GCM1555G1H130JA16#				3.0pr		
±0.25pF GCM1555G1H9R9CA16#  10pF ±1% GCM1555G1H100FA16#  ±2% GCM1555G1H100GA16#  ±2.5% GCM1555G1H100JA16#  ±5% GCM1555G1H100JA16#  ±2% GCM1555G1H110FA16#  ±2% GCM1555G1H110JA16#  ±2% GCM1555G1H120JA16#  ±5% GCM1555G1H120FA16#  ±2% GCM1555G1H120JA16#  ±2% GCM1555G1H120JA16#  ±5% GCM1555G1H130FA16#  ±2% GCM1555G1H130FA16#  ±2% GCM1555G1H130JA16#  15pF ±1% GCM1555G1H130JA16#  ±5% GCM1555G1H130JA16#  ±5% GCM1555G1H130JA16#				0.05	-	
10pF ±1% GCM1555G1H100FA16#  ±2% GCM1555G1H100GA16#  ±2.5% GCM1555G1H100RA16#  ±5% GCM1555G1H100JA16#  11pF ±1% GCM1555G1H110FA16#  ±2% GCM1555G1H110GA16#  ±5% GCM1555G1H110JA16#  12pF ±1% GCM1555G1H120FA16#  ±2% GCM1555G1H120JA16#  ±1% GCM1555G1H120JA16#  ±5% GCM1555G1H130FA16#  ±2% GCM1555G1H130FA16#  ±2% GCM1555G1H130JA16#  15pF ±1% GCM1555G1H130JA16#  ±5% GCM1555G1H150FA16#  ±2% GCM1555G1H150FA16#  ±2% GCM1555G1H150FA16#				э.эрг		
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±2.5% GCM1555G1H100RA16#  ±5% GCM1555G1H100JA16#  11pF ±1% GCM1555G1H110FA16#  ±2% GCM1555G1H110GA16#  ±5% GCM1555G1H110JA16#  12pF ±1% GCM1555G1H120FA16#  ±2% GCM1555G1H120JA16#  ±5% GCM1555G1H120JA16#  ±5% GCM1555G1H130FA16#  ±2% GCM1555G1H130GA16#  ±5% GCM1555G1H130JA16#  ±5% GCM1555G1H130JA16#  ±5% GCM1555G1H150FA16#  ±2% GCM1555G1H150FA16#  ±2% GCM1555G1H150FA16#				торн		
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11pF ±1% GCM1555G1H110FA16#  ±2% GCM1555G1H110GA16#  ±5% GCM1555G1H110JA16#  12pF ±1% GCM1555G1H120FA16#  ±2% GCM1555G1H120GA16#  ±5% GCM1555G1H120JA16#  13pF ±1% GCM1555G1H130FA16#  ±2% GCM1555G1H130GA16#  ±5% GCM1555G1H130JA16#  15pF ±1% GCM1555G1H150FA16#  ±2% GCM1555G1H150FA16#						
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12pF ±1% GCM1555G1H120FA16# ±2% GCM1555G1H120GA16# ±5% GCM1555G1H120JA16# 13pF ±1% GCM1555G1H130FA16# ±2% GCM1555G1H130GA16# ±5% GCM1555G1H130JA16# 15pF ±1% GCM1555G1H150FA16# ±2% GCM1555G1H150FA16#						
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15pF ±1% GCM1555G1H150FA16# ±2% GCM1555G1H150GA16#						GCM1555G1H130GA16#
±2% GCM1555G1H150GA16#					±5%	GCM1555G1H130JA16#
				15pF	±1%	GCM1555G1H150FA16#
±5% GCM1555G1H150JA16#					±2%	GCM1555G1H150GA16#
					±5%	GCM1555G1H150JA16#

ax.	Rated Voltage	TC Code	Cap.	Tol.	Part Number	
mm	50Vdc	X8G	16pF	±1%	GCM1555G1H160FA16#	
				±2%	GCM1555G1H160GA16#	
				±5%	GCM1555G1H160JA16#	
			18pF	±1%	GCM1555G1H180FA16#	
				±2%	GCM1555G1H180GA16#	
				±5%	GCM1555G1H180JA16#	
			20pF	±1%	GCM1555G1H200FA16#	
				±2%	GCM1555G1H200GA16#	
				±5%	GCM1555G1H200JA16#	
			22pF	±1%	GCM1555G1H220FA16#	
				±2%	GCM1555G1H220GA16#	
				±5%	GCM1555G1H220JA16#	
			24pF	±1%	GCM1555G1H240FA16#	
				±2%	GCM1555G1H240GA16#	
				±5%	GCM1555G1H240JA16#	
			27pF	±1%	GCM1555G1H270FA16#	
				±2%	GCM1555G1H270GA16#	
				±5%	GCM1555G1H270JA16#	
			30pF	±1%	GCM1555G1H300FA16#	
				±2%	GCM1555G1H300GA16#	
				±5%	GCM1555G1H300JA16#	
			33pF	±1%	GCM1555G1H330FA16#	
				±2%	GCM1555G1H330GA16#	
			26.5	±5%	GCM1555G1H330JA16#	
			36pF	±1%	GCM1555G1H360FA16#	
				±2%	GCM1555G1H360GA16#	
			20pE	±5% ±1%	GCM1555G1H360JA16# GCM1555G1H390FA16#	
			39pF	±1 %	GCM1555G1H390GA16#	
				±2 % ±5%	GCM1555G1H390JA16#	
			43pF	±1%	GCM1555G1H430FA16#	_
			ispi	±2%	GCM1555G1H430GA16#	
				±5%	GCM1555G1H430JA16#	
			47pF	±1%	GCM1555G1H470FA16#	
				±2%	GCM1555G1H470GA16#	
				±5%	GCM1555G1H470JA16#	
			51pF	±1%	GCM1555G1H510FA16#	
			·	±2%	GCM1555G1H510GA16#	
				±5%	GCM1555G1H510JA16#	
			56pF	±1%	GCM1555G1H560FA16#	
				±2%	GCM1555G1H560GA16#	
				±5%	GCM1555G1H560JA16#	
			62pF	±1%	GCM1555G1H620FA16#	
				±2%	GCM1555G1H620GA16#	
				±5%	GCM1555G1H620JA16#	
			68pF	±1%	GCM1555G1H680FA16#	
				±2%	GCM1555G1H680GA16#	
				±5%	GCM1555G1H680JA16#	
			75pF	±1%	GCM1555G1H750FA16#	
				±2%	GCM1555G1H750GA16#	
				±5%	GCM1555G1H750JA16#	
			82pF	±1%	GCM1555G1H820FA16#	
				±2%	GCM1555G1H820GA16#	
				±5%	GCM1555G1H820JA16#	

(→ 1.0×	0.5mm	)				
T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number	
0.55mm	50Vdc	X8G	91pF	±1%	GCM1555G1H910FA16#	
				±2%	GCM1555G1H910GA16#	
				±5%	GCM1555G1H910JA16#	
			100pF	±1%	GCM1555G1H101FA16#	
				±2%	GCM1555G1H101GA16#	
				±5%	GCM1555G1H101JA16#	
			110pF	±1%	GCM1555G1H111FA16#	
				±2%	GCM1555G1H111GA16#	
				±5%	GCM1555G1H111JA16#	
			120pF	±1%	GCM1555G1H121FA16#	
				±2%	GCM1555G1H121GA16#	
				±5%	GCM1555G1H121JA16#	
			130pF	±1%	GCM1555G1H131FA16#	
				±2%	GCM1555G1H131GA16#	
				±5%	GCM1555G1H131JA16#	
			150pF	±1%	GCM1555G1H151FA16#	
				±2%	GCM1555G1H151GA16#	
				±5%	GCM1555G1H151JA16#	
			160pF	±1%	GCM1555G1H161FA16#	
				±2%	GCM1555G1H161GA16#	
				±5%	GCM1555G1H161JA16#	
			180pF	±1%	GCM1555G1H181FA16#	
				±2%	GCM1555G1H181GA16#	
				±5%	GCM1555G1H181JA16#	
			200pF	±1%	GCM1555G1H201FA16#	
				±2%	GCM1555G1H201GA16#	
				±5%	GCM1555G1H201JA16#	
			220pF	±1%	GCM1555G1H221FA16#	
				±2%	GCM1555G1H221GA16#	
				±5%	GCM1555G1H221JA16#	
			240pF	±1%	GCM1555G1H241FA16#	
				±2%	GCM1555G1H241GA16#	
				±5%	GCM1555G1H241JA16#	
			270pF	±1%	GCM1555G1H271FA16#	
				±2%	GCM1555G1H271GA16#	
				±5%	GCM1555G1H271JA16#	
			300pF	±1%	GCM1555G1H301FA16#	
				±2%	GCM1555G1H301GA16#	
				±5%	GCM1555G1H301JA16#	
			330pF	±1%	GCM1555G1H331FA16#	
				±2%	GCM1555G1H331GA16#	
				±5%	GCM1555G1H331JA16#	
			360pF	±1%	GCM1555G1H361FA16#	
				±2%	GCM1555G1H361GA16#	
				±5%	GCM1555G1H361JA16#	
			390pF	±1%	GCM1555G1H391FA16#	
				±2%	GCM1555G1H391GA16#	
				±5%	GCM1555G1H391JA16#	
			430pF	±1%	GCM1555G1H431FA16#	
				±2%	GCM1555G1H431GA16#	
				±5%	GCM1555G1H431JA16#	
			470pF	±1%	GCM1555G1H471FA16#	
				±2%	GCM1555G1H471GA16#	
				±5%	GCM1555G1H471JA16#	

T max.	Rated Voltage	TC Code	Сар.	Tol.	Part Number
0.55mm	50Vdc	X8G	510pF	±1%	GCM1555G1H511FA16#
				±2%	GCM1555G1H511GA16#
				±5%	GCM1555G1H511JA16#
			560pF	±1%	GCM1555G1H561FA16#
				±2%	GCM1555G1H561GA16#
				±5%	GCM1555G1H561JA16#
			620pF	±1%	GCM1555G1H621FA16#
				±2%	GCM1555G1H621GA16#
				±5%	GCM1555G1H621JA16#
			680pF	±1%	GCM1555G1H681FA16#
				±2%	GCM1555G1H681GA16#
				±5%	GCM1555G1H681JA16#
			750pF	±1%	GCM1555G1H751FA16#
				±2%	GCM1555G1H751GA16#
				±5%	GCM1555G1H751JA16#
			820pF	±1%	GCM1555G1H821FA16#
				±2%	GCM1555G1H821GA16#
				±5%	GCM1555G1H821JA16#
			910pF	±1%	GCM1555G1H911FA16#
				±2%	GCM1555G1H911GA16#
				±5%	GCM1555G1H911JA16#
			1000pF	±1%	GCM1555G1H102FA16#
				±2%	GCM1555G1H102GA16#
				±5%	GCM1555G1H102JA16#

#### 1.6×0.8mm

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number		
0.9mm	100Vdc	COG	0.47pF	±0.1pF	GCM1885C2AR47BA16#		
			±0.25pF GCM1885C2AF	GCM1885C2AR47CA16#			
		· ·	0.50pF	±0.1pF	GCM1885C2AR50BA16#		
			GCM1885C2AR50CA16#				
			0.51pF	±0.1pF	GCM1885C2AR51BA16#		
				±0.25pF	GCM1885C2AR51CA16#		
			0.56pF	±0.1pF	GCM1885C2AR56BA16#		
				±0.25pF	GCM1885C2AR56CA16#		
			0.60pF	±0.1pF	GCM1885C2AR60BA16#		
				±0.25pF	GCM1885C2AR60CA16#		
		0.62pF		0.62pF	±0.1pF	GCM1885C2AR62BA16#	
			±0.25pF	GCM1885C2AR62CA16#			
			0.68pF	±0.1pF	GCM1885C2AR68BA16#		
				±0.25pF	GCM1885C2AR68CA16#		
			0.70pF	±0.1pF	GCM1885C2AR70BA16#		
				±0.25pF	GCM1885C2AR70CA16#		
			0.75pF	±0.1pF	GCM1885C2AR75BA16#		
				±0.25pF	GCM1885C2AR75CA16#		
			0.80pF	±0.1pF	GCM1885C2AR80BA16#		
				±0.25pF	GCM1885C2AR80CA16#		
			0.82pF	±0.1pF	GCM1885C2AR82BA16#		
				±0.25pF	GCM1885C2AR82CA16#		
			0.90pF	±0.1pF	GCM1885C2AR90BA16#		
				±0.25pF	GCM1885C2AR90CA16#		
			0.91pF	±0.1pF	GCM1885C2AR91BA16#		
			Part num	ber#indi	cates the package specification co	ode.	

Part number # indicates the package specification code.

(→ 1.6×0.8mm)

(→ 1.6×0.8mm)							
T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number		
0.9mm	100Vdc	COG	0.91pF	±0.25pF	GCM1885C2AR91CA16#		
			1.0pF	±0.1pF	GCM1885C2A1R0BA16#		
				±0.25pF	GCM1885C2A1R0CA16#		
			1.1pF	±0.1pF	GCM1885C2A1R1BA16#		
				±0.25pF	GCM1885C2A1R1CA16#		
			1.2pF	±0.1pF	GCM1885C2A1R2BA16#		
				±0.25pF	GCM1885C2A1R2CA16#		
			1.3pF	±0.1pF	GCM1885C2A1R3BA16#		
				±0.25pF	GCM1885C2A1R3CA16#		
			1.4pF	±0.1pF	GCM1885C2A1R4BA16#		
				±0.25pF	GCM1885C2A1R4CA16#		
			1.5pF	•	GCM1885C2A1R5BA16#		
					GCM1885C2A1R5CA16#		
			1.6pF	•	GCM1885C2A1R6BA16#		
				±0.25pF	GCM1885C2A1R6CA16#		
			1.7pF	±0.1pF	GCM1885C2A1R7BA16#		
				±0.25pF	GCM1885C2A1R7CA16#		
			1.8pF	±0.1pF	GCM1885C2A1R8BA16#		
				-	GCM1885C2A1R8CA16#		
			1.9pF	•	GCM1885C2A1R9BA16#		
				-	GCM1885C2A1R9CA16#		
			2.0pF	-	GCM1885C2A2R0BA16#		
			24 -	-	GCM1885C2A2R0CA16#		
			2.1pF	±0.1pF	GCM1885C2A2R1BA16#		
			2 255	-	GCM1885C2A2R1CA16# GCM1885C2A2R2BA16#		
			2.2pF	±0.1pF	GCM1885C2A2R2CA16#		
			2.3pF		GCM1885C2A2R3BA16#		
			2.501		GCM1885C2A2R3CA16#		
			2.4pF	±0.1pF	GCM1885C2A2R4BA16#		
					GCM1885C2A2R4CA16#		
			2.5pF	±0.1pF	GCM1885C2A2R5BA16#		
			•		GCM1885C2A2R5CA16#		
			2.6pF	±0.1pF	GCM1885C2A2R6BA16#		
				±0.25pF	GCM1885C2A2R6CA16#		
			2.7pF	±0.1pF	GCM1885C2A2R7BA16#		
				±0.25pF	GCM1885C2A2R7CA16#		
			2.8pF	±0.1pF	GCM1885C2A2R8BA16#		
				±0.25pF	GCM1885C2A2R8CA16#		
			2.9pF	±0.1pF	GCM1885C2A2R9BA16#		
				±0.25pF	GCM1885C2A2R9CA16#		
			3.0pF	±0.1pF	GCM1885C2A3R0BA16#		
				±0.25pF	GCM1885C2A3R0CA16#		
			3.1pF	±0.1pF	GCM1885C2A3R1BA16#		
				±0.25pF	GCM1885C2A3R1CA16#		
			3.2pF	±0.1pF	GCM1885C2A3R2BA16#		
				±0.25pF	GCM1885C2A3R2CA16#		
			3.3pF	· ·	GCM1885C2A3R3BA16#		
				-	GCM1885C2A3R3CA16#		
			3.4pF	±0.1pF	GCM1885C2A3R4BA16#		
				-	GCM1885C2A3R4CA16#		
			3.5pF	±0.1pF	GCM1885C2A3R5BA16#		
			26-	-	GCM1885C2A3R5CA16#		
			3.6pF	±0.1pF	GCM1885C2A3R6BA16#		

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number	
0.9mm	100Vdc	COG	3.6pF	±0.25pF	GCM1885C2A3R6CA16#	
			3.7pF	±0.1pF	GCM1885C2A3R7BA16#	
				±0.25pF	GCM1885C2A3R7CA16#	
			3.8pF	±0.1pF	GCM1885C2A3R8BA16#	
				±0.25pF	GCM1885C2A3R8CA16#	
			3.9pF	±0.1pF	GCM1885C2A3R9BA16#	
				±0.25pF	GCM1885C2A3R9CA16#	
			4.0pF	±0.1pF	GCM1885C2A4R0BA16#	
				±0.25pF	GCM1885C2A4R0CA16#	
				±0.5pF	GCM1885C2A4R0DA16#	
			4.1pF	±0.1pF	GCM1885C2A4R1BA16#	
				±0.25pF	GCM1885C2A4R1CA16#	
				±0.5pF	GCM1885C2A4R1DA16#	
			4.2pF	±0.1pF	GCM1885C2A4R2BA16#	
				±0.25pF	GCM1885C2A4R2CA16#	
				±0.5pF	GCM1885C2A4R2DA16#	
			4.3pF	±0.1pF	GCM1885C2A4R3BA16#	
				±0.25pF	GCM1885C2A4R3CA16#	
				±0.5pF	GCM1885C2A4R3DA16#	
			4.4pF	±0.1pF	GCM1885C2A4R4BA16#	
				-	GCM1885C2A4R4CA16#	
					GCM1885C2A4R4DA16#	
			4.5pF		GCM1885C2A4R5BA16#	
					GCM1885C2A4R5CA16#	
			4.6-5		GCM1885C2A4R5DA16#	
			4.6pF		GCM1885C2A4R6BA16# GCM1885C2A4R6CA16#	
					GCM1885C2A4R6DA16#	
			4.7pF		GCM1885C2A4R7BA16#	
			4.7 pi	-	GCM1885C2A4R7CA16#	
					GCM1885C2A4R7DA16#	
			4.8pF		GCM1885C2A4R8BA16#	
			•		GCM1885C2A4R8CA16#	
					GCM1885C2A4R8DA16#	
			4.9pF	±0.1pF	GCM1885C2A4R9BA16#	
				±0.25pF	GCM1885C2A4R9CA16#	
				±0.5pF	GCM1885C2A4R9DA16#	
			5.0pF	±0.1pF	GCM1885C2A5R0BA16#	
				±0.25pF	GCM1885C2A5R0CA16#	
				±0.5pF	GCM1885C2A5R0DA16#	
			5.1pF	±0.1pF	GCM1885C2A5R1BA16#	
				±0.25pF	GCM1885C2A5R1CA16#	
				±0.5pF	GCM1885C2A5R1DA16#	
			5.2pF	±0.1pF	GCM1885C2A5R2BA16#	
				±0.25pF	GCM1885C2A5R2CA16#	
				±0.5pF	GCM1885C2A5R2DA16#	
			5.3pF		GCM1885C2A5R3BA16#	
				-	GCM1885C2A5R3CA16#	
					GCM1885C2A5R3DA16#	
			5.4pF	-	GCM1885C2A5R4BA16#	
					GCM1885C2A5R4CA16#	_
			5 5 5 5		GCM1885C2A5R4DA16#	
			5.5pF	-	GCM1885C2A5R5BA16#	_
				±0.25pF	GCM1885C2A5R5CA16#	<u> </u>

(→ 1.6	0.8mm	1)			
T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number
0.9mm	100Vdc	C0G	5.5pF	±0.5pF	GCM1885C2A5R5DA16#
			5.6pF	±0.1pF	GCM1885C2A5R6BA16#
				±0.25pF	GCM1885C2A5R6CA16#
				±0.5pF	GCM1885C2A5R6DA16#
			5.7pF	±0.1pF	GCM1885C2A5R7BA16#
				· ·	GCM1885C2A5R7CA16#
				±0.5pF	GCM1885C2A5R7DA16#
			5.8pF	±0.1pF	GCM1885C2A5R8BA16#
				· ·	GCM1885C2A5R8CA16#
				±0.5pF	GCM1885C2A5R8DA16#
			5.9pF	±0.1pF	GCM1885C2A5R9BA16#
				-	GCM1885C2A5R9CA16#
			60.5	±0.5pF	GCM1885C2A5R9DA16#
			6.0pF	±0.1pF	GCM1885C2A6R0BA16#
				-	GCM1885C2A6R0CA16#
			64.5	±0.5pF	GCM1885C2A6R0DA16#
			6.1pF	±0.1pF	GCM1885C2A6R1BA16#
				-	GCM1885C2A6R1CA16#
			62.5		GCM1885C2A6R1DA16#
			6.2pF	±0.1pF	GCM1885C2A6R2BA16#
				-	GCM1885C2A6R2CA16#
			6 2 n E	±0.5pF	GCM1885C2A6R2DA16# GCM1885C2A6R3BA16#
			6.3pF	±0.1pF	
				±0.25pF	GCM1885C2A6R3CA16# GCM1885C2A6R3DA16#
			6.4pF	±0.1pF	GCM1885C2A6R4BA16#
			0трі		GCM1885C2A6R4CA16#
				±0.5pF	GCM1885C2A6R4DA16#
			6.5pF	±0.1pF	GCM1885C2A6R5BA16#
					GCM1885C2A6R5CA16#
				±0.5pF	GCM1885C2A6R5DA16#
			6.6pF	±0.1pF	GCM1885C2A6R6BA16#
				±0.25pF	GCM1885C2A6R6CA16#
				±0.5pF	GCM1885C2A6R6DA16#
			6.7pF	±0.1pF	GCM1885C2A6R7BA16#
				±0.25pF	GCM1885C2A6R7CA16#
				±0.5pF	GCM1885C2A6R7DA16#
			6.8pF	±0.1pF	GCM1885C2A6R8BA16#
				±0.25pF	GCM1885C2A6R8CA16#
				±0.5pF	GCM1885C2A6R8DA16#
			6.9pF	±0.1pF	GCM1885C2A6R9BA16#
				±0.25pF	GCM1885C2A6R9CA16#
				±0.5pF	GCM1885C2A6R9DA16#
			7.0pF	±0.1pF	GCM1885C2A7R0BA16#
				±0.25pF	GCM1885C2A7R0CA16#
				±0.5pF	GCM1885C2A7R0DA16#
			7.1pF	±0.1pF	GCM1885C2A7R1BA16#
				±0.25pF	GCM1885C2A7R1CA16#
				±0.5pF	GCM1885C2A7R1DA16#
			7.2pF	±0.1pF	GCM1885C2A7R2BA16#
				±0.25pF	GCM1885C2A7R2CA16#
				±0.5pF	GCM1885C2A7R2DA16#
			7.3pF	-	GCM1885C2A7R3BA16#
				±0.25pF	GCM1885C2A7R3CA16#

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number	
0.9mm	100Vdc	COG	7.3pF	±0.5pF	GCM1885C2A7R3DA16#	
			7.4pF	±0.1pF	GCM1885C2A7R4BA16#	
				±0.25pF	GCM1885C2A7R4CA16#	
				±0.5pF	GCM1885C2A7R4DA16#	
			7.5pF	±0.1pF	GCM1885C2A7R5BA16#	
				±0.25pF	GCM1885C2A7R5CA16#	
				±0.5pF	GCM1885C2A7R5DA16#	
			7.6pF	±0.1pF	GCM1885C2A7R6BA16#	
				±0.25pF	GCM1885C2A7R6CA16#	
				±0.5pF	GCM1885C2A7R6DA16#	
			7.7pF	±0.1pF	GCM1885C2A7R7BA16#	
				±0.25pF	GCM1885C2A7R7CA16#	
				±0.5pF	GCM1885C2A7R7DA16#	
			7.8pF	±0.1pF	GCM1885C2A7R8BA16#	
				±0.25pF	GCM1885C2A7R8CA16#	
				±0.5pF	GCM1885C2A7R8DA16#	
			7.9pF	±0.1pF	GCM1885C2A7R9BA16#	
				±0.25pF	GCM1885C2A7R9CA16#	
				±0.5pF	GCM1885C2A7R9DA16#	
			8.0pF	±0.1pF	GCM1885C2A8R0BA16#	
				±0.25pF	GCM1885C2A8R0CA16#	
				±0.5pF	GCM1885C2A8R0DA16#	
			8.1pF	±0.1pF	GCM1885C2A8R1BA16#	
				±0.25pF	GCM1885C2A8R1CA16#	
				±0.5pF	GCM1885C2A8R1DA16#	
			8.2pF	±0.1pF	GCM1885C2A8R2BA16#	
				±0.25pF	GCM1885C2A8R2CA16#	
				±0.5pF	GCM1885C2A8R2DA16#	
			8.3pF	±0.1pF	GCM1885C2A8R3BA16#	
				±0.25pF	GCM1885C2A8R3CA16#	
				±0.5pF	GCM1885C2A8R3DA16#	
			8.4pF	±0.1pF	GCM1885C2A8R4BA16#	
				±0.25pF	GCM1885C2A8R4CA16#	
				±0.5pF	GCM1885C2A8R4DA16#	
			8.5pF	±0.1pF	GCM1885C2A8R5BA16#	
				±0.25pF	GCM1885C2A8R5CA16#	
				±0.5pF	GCM1885C2A8R5DA16#	
			8.6pF	±0.1pF	GCM1885C2A8R6BA16#	
				±0.25pF	GCM1885C2A8R6CA16#	
				±0.5pF	GCM1885C2A8R6DA16#	
			8.7pF	±0.1pF	GCM1885C2A8R7BA16#	
				±0.25pF	GCM1885C2A8R7CA16#	
				±0.5pF	GCM1885C2A8R7DA16#	
			8.8pF	±0.1pF	GCM1885C2A8R8BA16#	
				±0.25pF	GCM1885C2A8R8CA16#	
				±0.5pF	GCM1885C2A8R8DA16#	
			8.9pF		GCM1885C2A8R9BA16#	
					GCM1885C2A8R9CA16#	
					GCM1885C2A8R9DA16#	
			9.0pF	-	GCM1885C2A9R0BA16#	
				-	GCM1885C2A9R0CA16#	
					GCM1885C2A9R0DA16#	
			9.1pF	±0.1pF	GCM1885C2A9R1BA16#	
				±0.25pF	GCM1885C2A9R1CA16#	

(→ 1.6	•0.8mm	)			
T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number
0.9mm	100Vdc	COG	9.1pF	±0.5pF	GCM1885C2A9R1DA16#
			9.2pF	±0.1pF	GCM1885C2A9R2BA16#
				±0.25pF	GCM1885C2A9R2CA16#
				±0.5pF	GCM1885C2A9R2DA16#
			9.3pF	±0.1pF	GCM1885C2A9R3BA16#
				±0.25pF	GCM1885C2A9R3CA16#
				±0.5pF	GCM1885C2A9R3DA16#
			9.4pF	±0.1pF	GCM1885C2A9R4BA16#
				±0.25pF	GCM1885C2A9R4CA16#
				±0.5pF	GCM1885C2A9R4DA16#
			9.5pF	±0.1pF	GCM1885C2A9R5BA16#
				±0.25pF	GCM1885C2A9R5CA16#
				±0.5pF	GCM1885C2A9R5DA16#
			9.6pF	±0.1pF	GCM1885C2A9R6BA16#
				±0.25pF	GCM1885C2A9R6CA16#
				±0.5pF	GCM1885C2A9R6DA16#
			9.7pF	±0.1pF	GCM1885C2A9R7BA16#
				±0.25pF	GCM1885C2A9R7CA16#
				±0.5pF	GCM1885C2A9R7DA16#
			9.8pF	±0.1pF	GCM1885C2A9R8BA16#
				±0.25pF	GCM1885C2A9R8CA16#
				±0.5pF	GCM1885C2A9R8DA16#
			9.9pF	±0.1pF	GCM1885C2A9R9BA16#
				±0.25pF	GCM1885C2A9R9CA16#
				±0.5pF	GCM1885C2A9R9DA16#
			10pF	±1%	GCM1885C2A100FA16#
				±2%	GCM1885C2A100GA16#
				±2.5%	GCM1885C2A100RA16#
				±5%	GCM1885C2A100JA16#
			11pF	±1%	GCM1885C2A110FA16#
				±2%	GCM1885C2A110GA16#
				±5%	GCM1885C2A110JA16#
			12pF	±1%	GCM1885C2A120FA16#
				±2%	GCM1885C2A120GA16#
				±5%	GCM1885C2A120JA16#
			13pF	±1%	GCM1885C2A130FA16#
				±2%	GCM1885C2A130GA16#
				±5%	GCM1885C2A130JA16#
			15pF	±1%	GCM1885C2A150FA16#
				±2%	GCM1885C2A150GA16#
				±5%	GCM1885C2A150JA16#
			16pF	±1%	GCM1885C2A160FA16#
				±2%	GCM1885C2A160GA16#
				±5%	GCM1885C2A160JA16#
			18pF	±1%	GCM1885C2A180FA16#
				±2%	GCM1885C2A180GA16#
				±5%	GCM1885C2A180JA16#
			20pF	±1%	GCM1885C2A200FA16#
				±2%	GCM1885C2A200GA16#
				±5%	GCM1885C2A200JA16#
			22pF	±1%	GCM1885C2A220FA16#
				±2%	GCM1885C2A220GA16#
				±5%	GCM1885C2A220JA16#
			24pF	±1%	GCM1885C2A240FA16#

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T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number	
0.9mm	100Vdc	COG	24pF	±2%	GCM1885C2A240GA16#	_
				±5%	GCM1885C2A240JA16#	_
			27pF	±1%	GCM1885C2A270FA16#	_
				±2%	GCM1885C2A270GA16#	_
				±5%	GCM1885C2A270JA16#	_
			30pF	±1%	GCM1885C2A300FA16#	_
				±2%	GCM1885C2A300GA16#	_
				±5%	GCM1885C2A300JA16#	_
			33pF	±1%	GCM1885C2A330FA16#	_
				±2%	GCM1885C2A330GA16#	_
				±5%	GCM1885C2A330JA16#	_
			36pF	±1%	GCM1885C2A360FA16#	_
			·	±2%	GCM1885C2A360GA16#	—
				±5%	GCM1885C2A360JA16#	_
			39pF	±1%	GCM1885C2A390FA16#	—
				±2%	GCM1885C2A390GA16#	—
				±5%	GCM1885C2A390JA16#	_
			43pF	±1%	GCM1885C2A430FA16#	—
			4561	±2%	GCM1885C2A430GA16#	—
				±2 %	GCM1885C2A430JA16#	—
			47nF		GCM1885C2A470FA16#	_
			47pF	±1%		_
				±2%	GCM1885C2A470GA16#	_
			F1F	±5%	GCM1885C2A470JA16#	_
			51pF	±1%	GCM1885C2A510FA16#	
				±2%	GCM1885C2A510GA16#	_
			F.C.: F	±5%	GCM1885C2A510JA16#	_
			56pF	±1%	GCM1885C2A560FA16#	_
				±2%	GCM1885C2A560GA16#	_
				±5%	GCM1885C2A560JA16#	_
			62pF	±1%	GCM1885C2A620FA16#	_
				±2%	GCM1885C2A620GA16#	_
				±5%	GCM1885C2A620JA16#	_
			68pF	±1%	GCM1885C2A680FA16#	_
				±2%	GCM1885C2A680GA16#	_
				±5%	GCM1885C2A680JA16#	_
			75pF	±1%	GCM1885C2A750FA16#	_
				±2%	GCM1885C2A750GA16#	_
				±5%	GCM1885C2A750JA16#	_
			82pF	±1%	GCM1885C2A820FA16#	_
				±2%	GCM1885C2A820GA16#	_
				±5%	GCM1885C2A820JA16#	
			91pF	±1%	GCM1885C2A910FA16#	
				±2%	GCM1885C2A910GA16#	
				±5%	GCM1885C2A910JA16#	
			100pF	±1%	GCM1885C2A101FA16#	
				±2%	GCM1885C2A101GA16#	
				±5%	GCM1885C2A101JA16#	
			110pF	±1%	GCM1885C2A111FA16#	
				±2%	GCM1885C2A111GA16#	
				±5%	GCM1885C2A111JA16#	_
			120pF	±1%	GCM1885C2A121FA16#	_
				±2%	GCM1885C2A121GA16#	
				±5%	GCM1885C2A121JA16#	_
			130pF	±1%	GCM1885C2A131FA16#	_
			_			_

(→ 1.6	«0.8mm	1)			
T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number
0.9mm	100Vdc	COG	130pF	±2%	GCM1885C2A131GA16#
				±5%	GCM1885C2A131JA16#
			150pF	±1%	GCM1885C2A151FA16#
				±2%	GCM1885C2A151GA16#
				±5%	GCM1885C2A151JA16#
			160pF	±1%	GCM1885C2A161FA16#
				±2%	GCM1885C2A161GA16#
				±5%	GCM1885C2A161JA16#
			180pF	±1%	GCM1885C2A181FA16#
				±2%	GCM1885C2A181GA16#
				±5%	GCM1885C2A181JA16#
			200pF	±1%	GCM1885C2A201FA16#
				±2%	GCM1885C2A201GA16#
				±5%	GCM1885C2A201JA16#
			220pF	±1%	GCM1885C2A221FA16#
				±2%	GCM1885C2A221GA16#
				±5%	GCM1885C2A221JA16#
			240pF	±1%	GCM1885C2A241FA16#
				±2%	GCM1885C2A241GA16#
				±5%	GCM1885C2A241JA16#
			270pF	±1%	GCM1885C2A271FA16#
				±2%	GCM1885C2A271GA16#
				±5%	GCM1885C2A271JA16#
			300pF	±1%	GCM1885C2A301FA16#
				±2%	GCM1885C2A301GA16#
				±5%	GCM1885C2A301JA16#
			330pF	±1%	GCM1885C2A331FA16#
				±2%	GCM1885C2A331GA16#
				±5%	GCM1885C2A331JA16#
			360pF	±1%	GCM1885C2A361FA16#
				±2%	GCM1885C2A361GA16#
				±5%	GCM1885C2A361JA16#
			390pF	±1%	GCM1885C2A391FA16#
				±2%	GCM1885C2A391GA16#
				±5%	GCM1885C2A391JA16#
			430pF	±1%	GCM1885C2A431FA16#
				±2%	GCM1885C2A431GA16#
				±5%	GCM1885C2A431JA16#
			470pF	±1%	GCM1885C2A471FA16#
				±2%	GCM1885C2A471GA16#
				±5%	GCM1885C2A471JA16#
			510pF	±1%	GCM1885C2A511FA16#
				±2%	GCM1885C2A511GA16#
				±5%	GCM1885C2A511JA16#
			560pF	±1%	GCM1885C2A561FA16#
				±2%	GCM1885C2A561GA16#
				±5%	GCM1885C2A561JA16#
			620pF	±1%	GCM1885C2A621FA16#
				±2%	GCM1885C2A621GA16#
				±5%	GCM1885C2A621JA16#
			680pF	±1%	GCM1885C2A681FA16#
			•	±2%	GCM1885C2A681GA16#
				±5%	GCM1885C2A681JA16#
			750pF	±1%	GCM1885C2A751FA16#

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number	
0.9mm	100Vdc	COG	750pF	±2%	GCM1885C2A751GA16#	
				±5%	GCM1885C2A751JA16#	
			820pF	±1%	GCM1885C2A821FA16#	
				±2%	GCM1885C2A821GA16#	
				±5%	GCM1885C2A821JA16#	
			910pF	±1%	GCM1885C2A911FA16#	
				±2%	GCM1885C2A911GA16#	
				±5%	GCM1885C2A911JA16#	
			1000pF	±1%	GCM1885C2A102FA16#	
				±2%	GCM1885C2A102GA16#	
				±5%	GCM1885C2A102JA16#	
			1200pF	±1%	GCM1885C2A122FA16#	
			120001	±2%	GCM1885C2A122GA16#	
			1200pF	±5%	GCM1885C2A122JA16#	
			1300pF	±2%	GCM1885C2A132GA16#	
			4500 5	±5%	GCM1885C2A132JA16#	
			1500pF	±2%	GCM1885C2A152GA16#	
				±5%	GCM1885C2A152JA16#	
		U2J	1000pF	±5%	GCM1887U2A102JA16#	
			1100pF	±5%	GCM1887U2A112JA16#	
			1200pF	±5%	GCM1887U2A122JA16#	
			1300pF	±5%	GCM1887U2A132JA16#	
			1500pF	±5%	GCM1887U2A152JA16#	
			1600pF	±5%	GCM1887U2A162JA16#	
			1800pF	±5%	GCM1887U2A182JA16#	
			2000pF	±5%	GCM1887U2A202JA16#	
			2200pF	±5%	GCM1887U2A222JA16#	
			2400pF	±5%	GCM1887U2A242JA16#	
			2700pF	±5%	GCM1887U2A272JA16#	
			3000pF	±5%	GCM1887U2A302JA16#	
			3300pF	±5%	GCM1887U2A332JA16#	
			3600pF	±5%	GCM1887U2A362JA16#	
			3900pF	±5%	GCM1887U2A392JA16#	
			4300pF	±5%	GCM1887U2A432JA16#	
			4700pF	±5%	GCM1887U2A472JA16#	
			5100pF	±5%	GCM1887U2A512JA16#	
			5600pF	±5%	GCM1887U2A562JA16#	
			6200pF	±5%	GCM1887U2A622JA16#	
			6800pF	±5%	GCM1887U2A682JA16#	
			7500pF	±5%	GCM1887U2A752JA16#	
			8200pF	±5%	GCM1887U2A822JA16#	
			9100pF	±5%	GCM1887U2A912JA16#	
			10000pF	±5%	GCM1887U2A103JA16#	
		X8G	10pF	±1%	GCM1885G2A100FA16#	
				±2.5%	GCM1885G2A100RA16#	
				±5%	GCM1885G2A100JA16#	
			11pF	±1%	GCM1885G2A110FA16#	
			,	±2%	GCM1885G2A110GA16#	
				±2 %	GCM1885G2A110GA16#	
			12pF	±5%	GCM1885G2A110JA16#	
			15h			
				±2%	GCM1885G2A120GA16#	
			1255	±5%	GCM1885G2A120JA16#	
			13pF	±1%	GCM1885G2A130FA16#	
				±2%	GCM1885G2A130GA16#	

### (→ 1.6×0.8mm)

(→ 1.6)	0.8mm،	1)			
T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number
0.9mm	100Vdc	X8G	13pF	±5%	GCM1885G2A130JA16#
			15pF	±1%	GCM1885G2A150FA16#
			-	±2%	GCM1885G2A150GA16#
				±5%	GCM1885G2A150JA16#
			16pF	±1%	GCM1885G2A160FA16#
				±2%	GCM1885G2A160GA16#
				±5%	GCM1885G2A160JA16#
			18pF	±1%	GCM1885G2A180FA16#
			торі		GCM1885G2A180GA16#
				±2%	
				±5%	GCM1885G2A180JA16#
			20pF	±1%	GCM1885G2A200FA16#
				±2%	GCM1885G2A200GA16#
				±5%	GCM1885G2A200JA16#
			22pF	±1%	GCM1885G2A220FA16#
				±2%	GCM1885G2A220GA16#
				±5%	GCM1885G2A220JA16#
			24pF	±1%	GCM1885G2A240FA16#
				±2%	GCM1885G2A240GA16#
				±5%	GCM1885G2A240JA16#
			27pF	±1%	GCM1885G2A270FA16#
			·	±2%	GCM1885G2A270GA16#
				±5%	GCM1885G2A270JA16#
			30pF	±1%	GCM1885G2A300FA16#
			30p.	±2%	GCM1885G2A300GA16#
				±5%	GCM1885G2A300JA16#
			22-5		
			33pF	±1%	GCM1885G2A330FA16#
				±2%	GCM1885G2A330GA16#
				±5%	GCM1885G2A330JA16#
			36pF	±1%	GCM1885G2A360FA16#
				±2%	GCM1885G2A360GA16#
				±5%	GCM1885G2A360JA16#
			39pF	±1%	GCM1885G2A390FA16#
				±2%	GCM1885G2A390GA16#
				±5%	GCM1885G2A390JA16#
			43pF	±1%	GCM1885G2A430FA16#
				±2%	GCM1885G2A430GA16#
				±5%	GCM1885G2A430JA16#
			47pF	±1%	GCM1885G2A470FA16#
				±2%	GCM1885G2A470GA16#
				±5%	GCM1885G2A470JA16#
			51pF	±1%	GCM1885G2A510FA16#
				±2%	GCM1885G2A510GA16#
				±5%	GCM1885G2A510JA16#
			56pF	±1%	GCM1885G2A560FA16#
			20b		
				±2%	GCM1885G2A560GA16#
			62-5	±5%	GCM1885G2A560JA16#
			62pF	±1%	GCM1885G2A620FA16#
				±2%	GCM1885G2A620GA16#
				±5%	GCM1885G2A620JA16#
			68pF	±1%	GCM1885G2A680FA16#
				±2%	GCM1885G2A680GA16#
				±5%	GCM1885G2A680JA16#
			75pF	±1%	GCM1885G2A750FA16#
				±2%	GCM1885G2A750GA16#

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number	
0.9mm	100Vdc	X8G	75pF	±5%	GCM1885G2A750JA16#	
			82pF	±1%	GCM1885G2A820FA16#	
				±2%	GCM1885G2A820GA16#	
				±5%	GCM1885G2A820JA16#	
			91pF	±1%	GCM1885G2A910FA16#	
				±2%	GCM1885G2A910GA16#	
				±5%	GCM1885G2A910JA16#	
			100pF	±1%	GCM1885G2A101FA16#	
				±2%	GCM1885G2A101GA16#	
				±5%	GCM1885G2A101JA16#	
			110pF	±1%	GCM1885G2A111FA16#	
				±2%	GCM1885G2A111GA16#	
				±5%	GCM1885G2A111JA16#	
			120pF	±1%	GCM1885G2A121FA16#	
				±2%	GCM1885G2A121GA16#	
				±5%	GCM1885G2A121JA16#	
			130pF	±1%	GCM1885G2A131FA16#	
				±2%	GCM1885G2A131GA16#	
				±5%	GCM1885G2A131JA16#	
			150pF	±1%	GCM1885G2A151FA16#	
				±2%	GCM1885G2A151GA16#	
				±5%	GCM1885G2A151JA16#	
			160pF	±1%	GCM1885G2A161FA16#	
				±2%	GCM1885G2A161GA16#	
				±5%	GCM1885G2A161JA16#	
			180pF	±1%	GCM1885G2A181FA16#	
				±2%	GCM1885G2A181GA16#	
				±5%	GCM1885G2A181JA16#	
			200pF	±1%	GCM1885G2A201FA16#	
				±2%	GCM1885G2A201GA16#	
				±5%	GCM1885G2A201JA16#	
			220pF	±1%	GCM1885G2A221FA16#	
				±2%	GCM1885G2A221GA16#	
				±5%	GCM1885G2A221JA16#	
			240pF	±1%	GCM1885G2A241FA16#	
				±2%	GCM1885G2A241GA16#	
				±5%	GCM1885G2A241JA16#	
			270pF	±1%	GCM1885G2A271FA16#	
				±2%	GCM1885G2A271GA16#	
				±5%	GCM1885G2A271JA16#	
			300pF	±1%	GCM1885G2A301FA16#	
				±2%	GCM1885G2A301GA16#	
				±5%	GCM1885G2A301JA16#	
			330pF	±1%	GCM1885G2A331FA16#	
				±2%	GCM1885G2A331GA16#	
				±5%	GCM1885G2A331JA16#	
			360pF	±1%	GCM1885G2A361FA16#	
				±2%	GCM1885G2A361GA16#	
				±5%	GCM1885G2A361JA16#	
			390pF	±1%	GCM1885G2A391FA16#	
				±2%	GCM1885G2A391GA16#	
				±5%	GCM1885G2A391JA16#	
			430pF	±1%	GCM1885G2A431FA16#	
				±2%	GCM1885G2A431GA16#	

(→ 1.6	«0.8mm	1)			
T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number
0.9mm	100Vdc	X8G	430pF	±5%	GCM1885G2A431JA16#
			470pF	±1%	GCM1885G2A471FA16#
				±2%	GCM1885G2A471GA16#
				±5%	GCM1885G2A471JA16#
			510pF	±1%	GCM1885G2A511FA16#
				±2%	GCM1885G2A511GA16#
				±5%	GCM1885G2A511JA16#
			560pF	±1%	GCM1885G2A561FA16#
				±2%	GCM1885G2A561GA16#
				±5%	GCM1885G2A561JA16#
			620pF	±1%	GCM1885G2A621FA16#
				±2%	GCM1885G2A621GA16#
				±5%	GCM1885G2A621JA16#
			680pF	±1%	GCM1885G2A681FA16#
				±2%	GCM1885G2A681GA16#
				±5%	GCM1885G2A681JA16#
			750pF	±1%	GCM1885G2A751FA16#
				±2%	GCM1885G2A751GA16#
				±5%	GCM1885G2A751JA16#
			820pF	±1%	GCM1885G2A821FA16#
				±2%	GCM1885G2A821GA16#
				±5%	GCM1885G2A821JA16#
			910pF	±1%	GCM1885G2A911FA16#
				±2%	GCM1885G2A911GA16#
				±5%	GCM1885G2A911JA16#
			1000pF	±1%	GCM1885G2A102FA16#
				±2%	GCM1885G2A102GA16#
				±5%	GCM1885G2A102JA16#
	80Vdc	COG	1600pF	±2%	GCM1885C1K162GA16#
	80000	Cod	100001	±5%	GCM1885C1K162JA16#
			1800pF	±2%	GCM1885C1K182GA16#
				±5%	GCM1885C1K182JA16#
			2000pF	±2%	GCM1885C1K202GA16#
			2000рі		GCM1885C1K202JA16#
			2200-5	±5%	GCM1885C1K222GA16#
			2200pF	±2%	
			2.4005	±5%	GCM1885C1K222JA16#
			2400pF	±2%	GCM1885C1K242GA16#
			2722 5	±5%	GCM1885C1K242JA16#
			2700pF	±2%	GCM1885C1K272GA16#
			2002 -	±5%	GCM1885C1K272JA16#
			3000pF	±2%	GCM1885C1K302GA16#
				±5%	GCM1885C1K302JA16#
			3300pF	±2%	GCM1885C1K332GA16#
				±5%	GCM1885C1K332JA16#
			3600pF	±2%	GCM1885C1K362GA16#
				±5%	GCM1885C1K362JA16#
			3900pF	±2%	GCM1885C1K392GA16#
				±5%	GCM1885C1K392JA16#
	63Vdc	COG	1600pF	±2%	GCM1885C1J162GA16#
				±5%	GCM1885C1J162JA16#
			1800pF	±2%	GCM1885C1J182GA16#
				±5%	GCM1885C1J182JA16#
			2000pF	±2%	GCM1885C1J202GA16#
				±5%	GCM1885C1J202JA16#

T max.	Rated Voltage	TC Code	Сар.	Tol.	Part Number	
0.9mm	63Vdc	COG	2200pF	±2%	GCM1885C1J222GA16#	
				±5%	GCM1885C1J222JA16#	
			2400pF	±2%	GCM1885C1J242GA16#	
				±5%	GCM1885C1J242JA16#	
			2700pF	±2%	GCM1885C1J272GA16#	
				±5%	GCM1885C1J272JA16#	
			3000pF	±2%	GCM1885C1J302GA16#	
			·	±5%	GCM1885C1J302JA16#	
			3300pF	±2%	GCM1885C1J332GA16#	
				±5%	GCM1885C1J332JA16#	
			3600pF	±2%	GCM1885C1J362GA16#	
				±5%	GCM1885C1J362JA16#	
			3900pF	±2%	GCM1885C1J392GA16#	
			озоор.	±5%	GCM1885C1J392JA16#	
	50Vdc	COG	1100pF	±1%	GCM1885C1H112FA16#	
	Jovac	Cou	1100рі	±2%	GCM1885C1H112GA16#	
				±5%	GCM1885C1H112JA16#	
			1200-5			
			1200pF	±1%	GCM1885C1H122FA16#	
				±2%	GCM1885C1H122GA16#	
				±5%	GCM1885C1H122JA16#	
			1300pF	±1%	GCM1885C1H132FA16#	
				±2%	GCM1885C1H132GA16#	
				±5%	GCM1885C1H132JA16#	
			1500pF	±1%	GCM1885C1H152FA16#	
				±2%	GCM1885C1H152GA16#	
				±5%	GCM1885C1H152JA16#	
			1600pF	±1%	GCM1885C1H162FA16#	
				±2%	GCM1885C1H162GA16#	
				±5%	GCM1885C1H162JA16#	
			1800pF	±1%	GCM1885C1H182FA16#	
				±2%	GCM1885C1H182GA16#	
				±5%	GCM1885C1H182JA16#	
			2000pF	±1%	GCM1885C1H202FA16#	
				±2%	GCM1885C1H202GA16#	
				±5%	GCM1885C1H202JA16#	
			2200pF	±1%	GCM1885C1H222FA16#	
				±2%	GCM1885C1H222GA16#	
				±5%	GCM1885C1H222JA16#	
			2400pF	±1%	GCM1885C1H242FA16#	
				±2%	GCM1885C1H242GA16#	
				±5%	GCM1885C1H242JA16#	
			2700pF	±1%	GCM1885C1H272FA16#	
				±2%	GCM1885C1H272GA16#	
				±5%	GCM1885C1H272JA16#	
			3000pF	±1%	GCM1885C1H302FA16#	
				±2%	GCM1885C1H302GA16#	<del></del>
				±5%	GCM1885C1H302JA16#	
			3300pF	±1%	GCM1885C1H332FA16#	
			P.	±2%	GCM1885C1H332GA16#	
				±5%	GCM1885C1H332JA16#	
			3600pF	±1%	GCM1885C1H362FA16#	
			Sooohi	±1% ±2%	GCM1885C1H362GA16#	
						-
			3000-5	±5% ±1%	GCM1885C1H362JA16# GCM1885C1H392FA16#	
			3900pF		cates the package specification	<u> </u>

(→ 1.6>	0.8mm	1)				
T max.	Rated Voltage	TC Code	Сар.	Tol.	Part Number	
0.9mm	50Vdc	COG	3900pF	±2%	GCM1885C1H392GA16#	
				±5%	GCM1885C1H392JA16#	
			4300pF	±2%	GCM1885C1H432GA16#	
				±5%	GCM1885C1H432JA16#	
			4700pF	±1%	GCM1885C1H472FA16#	
				±2%	GCM1885C1H472GA16#	
				±5%	GCM1885C1H472JA16#	
			5100pF	±2%	GCM1885C1H512GA16#	
				±5%	GCM1885C1H512JA16#	
			5600pF	±2%	GCM1885C1H562GA16#	
				±5%	GCM1885C1H562JA16#	
			6200pF	±2%	GCM1885C1H622GA16#	
				±5%	GCM1885C1H622JA16#	
			6800pF	±2%	GCM1885C1H682GA16#	
				±5%	GCM1885C1H682JA16#	
			7500pF	±2%	GCM1885C1H752GA16#	
				±5%	GCM1885C1H752JA16#	
			8200pF	±2%	GCM1885C1H822GA16#	
				±5%	GCM1885C1H822JA16#	
			9100pF	±2%	GCM1885C1H912GA16#	
				±5%	GCM1885C1H912JA16#	
			10000pF	±2%	GCM1885C1H103GA16#	
				±5%	GCM1885C1H103JA16#	
		U2J	1000pF	±5%	GCM1887U1H102JA16#	
			1100pF	±5%	GCM1887U1H112JA16#	
			1200pF	±5%	GCM1887U1H122JA16#	
			1300pF	±5%	GCM1887U1H132JA16#	
			1500pF	±5%	GCM1887U1H152JA16#	
			1600pF	±5%	GCM1887U1H162JA16#	
			1800pF	±5%	GCM1887U1H182JA16#	
			2000pF	±5%	GCM1887U1H202JA16#	
			2200pF	±5%	GCM1887U1H222JA16#	
			2400pF	±5%	GCM1887U1H242JA16#	
			2700pF	±5%	GCM1887U1H272JA16#	
			3000pF	±5%	GCM1887U1H302JA16#	
			3300pF	±5%	GCM1887U1H332JA16#	
			3600pF	±5%	GCM1887U1H362JA16#	
			3900pF	±5%	GCM1887U1H392JA16#	
			4300pF	±5%	GCM1887U1H432JA16#	
			4700pF	±5%	GCM1887U1H472JA16#	
			5100pF	±5%	GCM1887U1H512JA16#	
			5600pF	±5%	GCM1887U1H562JA16#	
			6200pF	±5%	GCM1887U1H622JA16#	
			6800pF	±5%	GCM1887U1H682JA16#	
			7500pF	±5%	GCM1887U1H752JA16#	
			8200pF	±5%	GCM1887U1H822JA16#	
			9100pF	±5%	GCM1887U1H912JA16#	
			10000pF	±5%	GCM1887U1H103JA16#	
		X8G	1100pF	±1%	GCM1885G1H112FA16#	
				±2%	GCM1885G1H112GA16#	
				±5%	GCM1885G1H112JA16#	
			1200pF	±1%	GCM1885G1H122FA16#	
				±2%	GCM1885G1H122GA16#	
				±5%	GCM1885G1H122JA16#	

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number	
0.9mm	50Vdc	X8G	1300pF	±1%	GCM1885G1H132FA16#	
				±2%	GCM1885G1H132GA16#	
				±5%	GCM1885G1H132JA16#	
			1500pF	±1%	GCM1885G1H152FA16#	
				±2%	GCM1885G1H152GA16#	
				±5%	GCM1885G1H152JA16#	
			1600pF	±1%	GCM1885G1H162FA16#	
				±2%	GCM1885G1H162GA16#	
				±5%	GCM1885G1H162JA16#	
			1800pF	±1%	GCM1885G1H182FA16#	
				±2%	GCM1885G1H182GA16#	
				±5%	GCM1885G1H182JA16#	
			2000pF	±1%	GCM1885G1H202FA16#	
				±2%	GCM1885G1H202GA16#	
				±5%	GCM1885G1H202JA16#	
			2200pF	±1%	GCM1885G1H222FA16#	
				±2%	GCM1885G1H222GA16#	
				±5%	GCM1885G1H222JA16#	
			2400pF	±1%	GCM1885G1H242FA16#	
				±2%	GCM1885G1H242GA16#	
				±5%	GCM1885G1H242JA16#	
			2700pF	±1%	GCM1885G1H272FA16#	
				±2%	GCM1885G1H272GA16#	
				±5%	GCM1885G1H272JA16#	

### 2.0×1.25mm

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number	
0.7mm	100Vdc	COG	1600pF	±1%	GCM2165C2A162FA16#	
				±2%	GCM2165C2A162GA16#	
				±5%	GCM2165C2A162JA16#	
			1800pF	±1%	GCM2165C2A182FA16#	
				±2%	GCM2165C2A182GA16#	
				±5%	GCM2165C2A182JA16#	
			2000pF	±1%	GCM2165C2A202FA16#	
				±2%	GCM2165C2A202GA16#	
				±5%	GCM2165C2A202JA16#	
			2200pF	±1%	GCM2165C2A222FA16#	
				±2%	GCM2165C2A222GA16#	
				±5%	GCM2165C2A222JA16#	
			2400pF	±1%	GCM2165C2A242FA16#	
				±2%	GCM2165C2A242GA16#	
				±5%	GCM2165C2A242JA16#	
			2700pF	±1%	GCM2165C2A272FA16#	
				±2%	GCM2165C2A272GA16#	
				±5%	GCM2165C2A272JA16#	
			3000pF	±1%	GCM2165C2A302FA16#	
				±2%	GCM2165C2A302GA16#	
				±5%	GCM2165C2A302JA16#	
			3300pF	±1%	GCM2165C2A332FA16#	
				±2%	GCM2165C2A332GA16#	
				±5%	GCM2165C2A332JA16#	
	80Vdc	COG	4300pF	±1%	GCM2165C1K432FA16#	
			Part num	her#indi	cates the package specification co	nde

Part number # indicates the package specification code.

(→ 2.0;	1.25m	m)	-		
T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number
0.7mm	80Vdc	COG	4300pF	±2%	GCM2165C1K432GA16#
				±5%	GCM2165C1K432JA16#
			4700pF	±1%	GCM2165C1K472FA16#
				±2%	GCM2165C1K472GA16#
				±5%	GCM2165C1K472JA16#
	50Vdc	X8G	3000pF	±2%	GCM2165G1H302GA16#
				±5%	GCM2165G1H302JA16#
			3300pF	±2%	GCM2165G1H332GA16#
				±5%	GCM2165G1H332JA16#
			3600pF	±2%	GCM2165G1H362GA16#
				±5%	GCM2165G1H362JA16#
			3900pF	±2%	GCM2165G1H392GA16#
				±5%	GCM2165G1H392JA16#
			4300pF	±2%	GCM2165G1H432GA16#
				±5%	GCM2165G1H432JA16#
			4700pF	±2%	GCM2165G1H472GA16#
				±5%	GCM2165G1H472JA16#
0.95mm	100Vdc	X8G	1100pF	±2%	GCM2195G2A112GA16#
				±5%	GCM2195G2A112JA16#
			1200pF	±2%	GCM2195G2A122GA16#
				±5%	GCM2195G2A122JA16#
			1300pF	±2%	GCM2195G2A132GA16#
				±5%	GCM2195G2A132JA16#
			1500pF	±2%	GCM2195G2A152GA16#
				±5%	GCM2195G2A152JA16#
		ZLM	1000pF	±10%	GCM2199E2A102KA05#
				±20%	GCM2199E2A102MA05#
			1100pF	±10%	GCM2199E2A112KA05#
				±20%	GCM2199E2A112MA05#
			1200pF	±10%	GCM2199E2A122KA05#
				±20%	GCM2199E2A122MA05#
			1300pF	±10%	GCM2199E2A132KA05#
				±20%	GCM2199E2A132MA05#
			1500pF	±10%	GCM2199E2A152KA05#
				±20%	GCM2199E2A152MA05#
	80Vdc	COG	5100pF	±1%	GCM2195C1K512FA16#
			5600pF	±1%	GCM2195C1K562FA16#
			6200pF	±2%	GCM2195C1K622GA16#
				±5%	GCM2195C1K622JA16#
			6800pF	±2%	GCM2195C1K682GA16#
				±5%	GCM2195C1K682JA16#
			7500pF	±2%	GCM2195C1K752GA16#
				±5%	GCM2195C1K752JA16#
			8200pF	±2%	GCM2195C1K822GA16#
			,	±5%	GCM2195C1K822JA16#
			9100pF	±2%	GCM2195C1K912GA16#
				±5%	GCM2195C1K912JA16#
			10000pF	±1%	GCM2195C1K103FA16#
			200pi	±2%	GCM2195C1K103GA16#
				±5%	GCM2195C1K103JA16#
			11000pF	±2%	GCM2195C1K113GA16#
			11000hL	±2% ±5%	GCM2195C1K113JA16#
			12000pF	±3 %	GCM2195C1K1133A16#
			12000pr	±2 %	GCM2195C1K123JA16#
				±J /0	CO. IZIJJCINIZJJAIO#

	T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number	
-	0.95mm	80Vdc	COG	13000pF	±2%	GCM2195C1K133GA16#	
					±5%	GCM2195C1K133JA16#	
				15000pF	±1%	GCM2195C1K153FA16#	
					±2%	GCM2195C1K153GA16#	
					±5%	GCM2195C1K153JA16#	
		50Vdc	COG	12000pF	±1%	GCM2195C1H123FA16#	
					±2%	GCM2195C1H123GA16#	
					±5%	GCM2195C1H123JA16#	
				13000pF	±1%	GCM2195C1H133FA16#	
					±2%	GCM2195C1H133GA16#	
					±5%	GCM2195C1H133JA16#	
				15000pF	±1%	GCM2195C1H153FA16#	
					±2%	GCM2195C1H153GA16#	
					±5%	GCM2195C1H153JA16#	
			X8G	3900pF	±2%	GCM2195G1H392GA16#	
					±5%	GCM2195G1H392JA16#	
				4300pF	±2%	GCM2195G1H432GA16#	
					±5%	GCM2195G1H432JA16#	
				4700pF	±2%	GCM2195G1H472GA16#	
					±5%	GCM2195G1H472JA16#	
				5100pF	±2%	GCM2195G1H512GA16#	
					±5%	GCM2195G1H512JA16#	
				5600pF	±2%	GCM2195G1H562GA16#	
					±5%	GCM2195G1H562JA16#	
				6200pF	±2%	GCM2195G1H622GA16#	
					±5%	GCM2195G1H622JA16#	
				6800pF	±2%	GCM2195G1H682GA16#	
					±5%	GCM2195G1H682JA16#	
				7500pF	±2%	GCM2195G1H752GA16#	
					±5%	GCM2195G1H752JA16#	
				8200pF	±2%	GCM2195G1H822GA16#	
					±5%	GCM2195G1H822JA16#	
				9100pF	±2%	GCM2195G1H912GA16#	
					±5%	GCM2195G1H912JA16#	
				10000pF	±2%	GCM2195G1H103GA16#	
_					±5%	GCM2195G1H103JA16#	
	1.0mm	630Vdc	COG	10pF	±1%	GCM21A5C2J100FX01#	
					±2%	GCM21A5C2J100GX01#	
					±5%	GCM21A5C2J100JX01#	
				12pF	±1%	GCM21A5C2J120FX01#	
					±2%	GCM21A5C2J120GX01#	
					±5%	GCM21A5C2J120JX01#	
				15pF	±1%	GCM21A5C2J150FX01#	
					±2%	GCM21A5C2J150GX01#	
					±5%	GCM21A5C2J150JX01#	
				18pF	±1%	GCM21A5C2J180FX01#	
					±2%	GCM21A5C2J180GX01#	
					±5%	GCM21A5C2J180JX01#	
				22pF	±1%	GCM21A5C2J220FX01#	
					±2%	GCM21A5C2J220GX01#	
					±5%	GCM21A5C2J220JX01#	
				27pF	±1%	GCM21A5C2J270FX01#	
					±2%	GCM21A5C2J270GX01#	
-					±5%	GCM21A5C2J270JX01#	
				Part num	ber#indi	cates the package specification	code.

(→ 2.0	1.25m	m)			
T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number
1.0mm	630Vdc	COG	33pF	±1%	GCM21A5C2J330FX01#
				±2%	GCM21A5C2J330GX01#
				±5%	GCM21A5C2J330JX01#
			39pF	±1%	GCM21A5C2J390FX01#
				±2%	GCM21A5C2J390GX01#
				±5%	GCM21A5C2J390JX01#
			47pF	±1%	GCM21A5C2J470FX01#
				±2%	GCM21A5C2J470GX01#
				±5%	GCM21A5C2J470JX01#
			56pF	±1%	GCM21A5C2J560FX01#
				±2%	GCM21A5C2J560GX01#
				±5%	GCM21A5C2J560JX01#
			68pF	±1%	GCM21A5C2J680FX01#
				±2%	GCM21A5C2J680GX01#
				±5%	GCM21A5C2J680JX01#
			82pF	±1%	GCM21A5C2J820FX01#
				±2%	GCM21A5C2J820GX01#
				±5%	GCM21A5C2J820JX01#
			100pF	±1%	GCM21A5C2J101FX01#
				±2%	GCM21A5C2J101GX01#
				±5%	GCM21A5C2J101JX01#
			120pF	±1%	GCM21A5C2J121FX01#
				±2%	GCM21A5C2J121GX01#
				±5%	GCM21A5C2J121JX01#
			150pF	±1%	GCM21A5C2J151FX01#
				±2%	GCM21A5C2J151GX01#
				±5%	GCM21A5C2J151JX01#
			180pF	±1%	GCM21A5C2J181FX01#
				±2%	GCM21A5C2J181GX01#
				±5%	GCM21A5C2J181JX01#
			220pF	±1%	GCM21A5C2J221FX01#
				±2%	GCM21A5C2J221GX01#
				±5%	GCM21A5C2J221JX01#
			270pF	±1%	GCM21A5C2J271FX01#
				±2%	GCM21A5C2J271GX01#
				±5%	GCM21A5C2J271JX01#
			330pF	±1%	GCM21A5C2J331FX01#
				±2%	GCM21A5C2J331GX01#
				±5%	GCM21A5C2J331JX01#
			390pF	±1%	GCM21A5C2J391FX01#
				±2%	GCM21A5C2J391GX01#
				±5%	GCM21A5C2J391JX01#
			470pF	±1%	GCM21A5C2J471FX01#
				±2%	GCM21A5C2J471GX01#
				±5%	GCM21A5C2J471JX01#
			560pF	±1%	GCM21A5C2J561FX01#
				±2%	GCM21A5C2J561GX01#
				±5%	GCM21A5C2J561JX01#
	250Vdc	COG	10pF	±1%	GCM21A5C2E100FX01#
				±2%	GCM21A5C2E100GX01#
				±5%	GCM21A5C2E100JX01#
			12pF	±1%	GCM21A5C2E120FX01#
			•	±2%	GCM21A5C2E120GX01#
				±5%	GCM21A5C2E120JX01#
				1	

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number	
1.0mm	250Vdc	COG	15pF	±1%	GCM21A5C2E150FX01#	
				±2%	GCM21A5C2E150GX01#	
				±5%	GCM21A5C2E150JX01#	
			18pF	±1%	GCM21A5C2E180FX01#	
				±2%	GCM21A5C2E180GX01#	
				±5%	GCM21A5C2E180JX01#	
			22pF	±1%	GCM21A5C2E220FX01#	
				±2%	GCM21A5C2E220GX01#	
				±5%	GCM21A5C2E220JX01#	
			27pF	±1%	GCM21A5C2E270FX01#	
				±2%	GCM21A5C2E270GX01#	
				±5%	GCM21A5C2E270JX01#	
			33pF	±1%	GCM21A5C2E330FX01#	
				±2%	GCM21A5C2E330GX01#	
				±5%	GCM21A5C2E330JX01#	
			39pF	±1%	GCM21A5C2E390FX01#	
			·	±2%	GCM21A5C2E390GX01#	
				±5%	GCM21A5C2E390JX01#	
			47pF	±1%	GCM21A5C2E470FX01#	
				±2%	GCM21A5C2E470GX01#	
				±5%	GCM21A5C2E470JX01#	
			56pF	±1%	GCM21A5C2E560FX01#	
			σоμ.	±2%	GCM21A5C2E560GX01#	
				±5%	GCM21A5C2E560JX01#	
			68pF	±1%	GCM21A5C2E680FX01#	
			оор.	±2%	GCM21A5C2E680GX01#	
				±5%	GCM21A5C2E680JX01#	
			82pF	±1%	GCM21A5C2E820FX01#	
				±2%	GCM21A5C2E820GX01#	
				±5%	GCM21A5C2E820JX01#	
			100pF	±1%	GCM21A5C2E101FX01#	
				±2%	GCM21A5C2E101GX01#	
				±5%	GCM21A5C2E101JX01#	
			120pF	±1%	GCM21A5C2E121FX01#	
			1200.	±2%	GCM21A5C2E121GX01#	
				±5%	GCM21A5C2E121JX01#	
			150pF	±1%	GCM21A5C2E151FX01#	
			100р.	±2%	GCM21A5C2E151GX01#	
				±5%	GCM21A5C2E151JX01#	
			180pF	±1%	GCM21A5C2E181FX01#	
			100р.	±2%	GCM21A5C2E181GX01#	
				±5%	GCM21A5C2E181JX01#	
			220pF	±1%	GCM21A5C2E221FX01#	
			2200.	±2%	GCM21A5C2E221GX01#	
				±5%	GCM21A5C2E221JX01#	
			270pF	±1%	GCM21A5C2E271FX01#	
			~P.	±2%	GCM21A5C2E271GX01#	
				±5%	GCM21A5C2E271JX01#	
			330pF	±1%	GCM21A5C2E331FX01#	
				±2%	GCM21A5C2E331GX01#	
				±5%	GCM21A5C2E331JX01#	
			390pF	±1%	GCM21A5C2E391FX01#	
			-206,	±2%	GCM21A5C2E391GX01#	
				±5%	GCM21A5C2E391JX01#	
				≟J /0	GO: 121A302E3313A01#	

(→ 2.0>	1.25m	m)			
T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number
1.0mm	250Vdc	COG	470pF	±1%	GCM21A5C2E471FX01#
				±2%	GCM21A5C2E471GX01#
				±5%	GCM21A5C2E471JX01#
			560pF	±1%	GCM21A5C2E561FX01#
				±2%	GCM21A5C2E561GX01#
				±5%	GCM21A5C2E561JX01#
			680pF	±1%	GCM21A5C2E681FX01#
				±2%	GCM21A5C2E681GX01#
				±5%	GCM21A5C2E681JX01#
			820pF	±1%	GCM21A5C2E821FX01#
				±2%	GCM21A5C2E821GX01#
				±5%	GCM21A5C2E821JX01#
			1000pF	±1%	GCM21A5C2E102FX01#
				±2%	GCM21A5C2E102GX01#
				±5%	GCM21A5C2E102JX01#
			1200pF	±1%	GCM21A5C2E122FX01#
				±2%	GCM21A5C2E122GX01#
				±5%	GCM21A5C2E122JX01#
			1500pF	±1%	GCM21A5C2E152FX01#
				±2%	GCM21A5C2E152GX01#
				±5%	GCM21A5C2E152JX01#
			1800pF	±1%	GCM21A5C2E182FX01#
				±2%	GCM21A5C2E182GX01#
				±5%	GCM21A5C2E182JX01#
			2200pF	±1%	GCM21A5C2E222FX01#
				±2%	GCM21A5C2E222GX01#
				±5%	GCM21A5C2E222JX01#
			2700pF	±1%	GCM21A5C2E272FX01#
				±2%	GCM21A5C2E272GX01#
				±5%	GCM21A5C2E272JX01#
		U2J	100pF	±5%	GCM21A7U2E101JX01#
			120pF	±5%	GCM21A7U2E121JX01#
			150pF	±5%	GCM21A7U2E151JX01#
			180pF	±5%	GCM21A7U2E181JX01#
			220pF	±5%	GCM21A7U2E221JX01#
			270pF	±5%	GCM21A7U2E271JX01#
			330pF	±5%	GCM21A7U2E331JX01#
			390pF	±5%	GCM21A7U2E391JX01#
			470pF	±5%	GCM21A7U2E471JX01#
			560pF	±5%	GCM21A7U2E561JX01#
			680pF	±5%	GCM21A7U2E681JX01#
			820pF	±5%	GCM21A7U2E821JX01#
			1000pF	±5%	GCM21A7U2E102JX01#
			1200pF	±5%	GCM21A7U2E122JX01#
			1500pF	±5%	GCM21A7U2E152JX01#
			1800pF	±5%	GCM21A7U2E182JX01#
			2200pF	±5%	GCM21A7U2E222JX01#
1.4mm	80Vdc	COG	18000pF	±3 %	GCM21B5C1K183GA16#
±. <del>7</del> 111111	Jovac		10000hr	±2% ±5%	GCM21B5C1K183JA16#
			20000pF		GCM21B5C1K183JA16#
			2000pr	±2% ±5%	GCM21B5C1K203JA16#
			22000-5		
			22000pF	±2%	GCM21B5C1K223GA16#
	EOV.1	000	19000-5	±5%	GCM21B5C1K223JA16#
	50Vdc	CUG	18000pF	±1%	GCM21B5C1H183FA16#

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number	
1.4mm	50Vdc	COG	18000pF	±2%	GCM21B5C1H183GA16#	
1.411111	Sovac	Cod	18000рг	±2 %	GCM21B5C1H183JA16#	
			20000pF	±1%	GCM21B5C1H203FA16#	
			2000орі	±2%	GCM21B5C1H203GA16#	
				±5%	GCM21B5C1H203JA16#	
			22000pF	±1%	GCM21B5C1H223FA16#	
			2200001	±2%	GCM21B5C1H223GA16#	
				±5%	GCM21B5C1H223JA16#	
		X8G	6200pF	±1%	GCM21B5G1H622FA16#	
		,,,,,	02006.	±2%	GCM21B5G1H622GA16#	
				±5%	GCM21B5G1H622JA16#	
			6800pF	±1%	GCM21B5G1H682FA16#	
			оссор.	±2%	GCM21B5G1H682GA16#	
				±5%	GCM21B5G1H682JA16#	
			7500pF	±1%	GCM21B5G1H752FA16#	
			. 555p.	±2%	GCM21B5G1H752GA16#	
				±5%	GCM21B5G1H752JA16#	
			8200pF	±1%	GCM21B5G1H822FA16#	
			0200pi	±2%	GCM21B5G1H822GA16#	
				±5%	GCM21B5G1H822JA16#	
			9100pF	±1%	GCM21B5G1H912FA16#	
			9100br	±2%	GCM21B5G1H912GA16#	
				±5%	GCM21B5G1H912JA16#	
			10000pF	±1%	GCM21B5G1H103FA16#	
				±2%	GCM21B5G1H103GA16#	
				±5%	GCM21B5G1H103JA16#	
1 45mm	630Vdc	COG	680pF	±1%	GCM21B5C2J681FX03#	
1.4511111	OSOVAC	ovac Cog	оворг	±2%	GCM21B5C2J681GX03#	
				±5%	GCM21B5C2J681JX03#	
			820pF	±1%	GCM21B5C2J821FX03#	
			ОДОРІ	±2%	GCM21B5C2J821GX03#	
				±5%	GCM21B5C2J821JX03#	
			1000pF	±1%	GCM21B5C2J102FX03#	
			100001	±2%	GCM21B5C2J102GX03#	
				±5%	GCM21B5C2J102JX03#	
			1200-5	±1%	GCM21B5C2J122FX03#	
			1200pF	±2%	GCM21B5C2J122GX03#	
				±5%	GCM21B5C2J122JX03#	
			1500pF	±1%	GCM21B5C2J152FX0A#	
				±2%	GCM21B5C2J152GX0A#	
				±5%	GCM21B5C2J152JX0A#	
			1800pF	±1%	GCM21B5C2J182FX0A#	
			1000рі	±1 %	GCM21B5C2J182GX0A#	<u> </u>
				±2 %	GCM21B5C2J182JX0A#	<u> </u>
			2200pF	±5%	GCM21B5C2J182JX0A#	
				±1 %	GCM21B5C2J222GX0A#	
				±2% ±5%	GCM21B5C2J222JX0A#	
	250Vdc	COG	3300pF	±5%	GCM21B5C2J22ZJX0A# GCM21B5C2E332FX01#	
	250 vuc	200	3300pP	±1% ±2%	GCM21B5C2E332FX01#	_
				±2% ±5%	GCM21B5C2E332JX01#	
			3000-5		GCM21B5C2E332JX01# GCM21B5C2E392FX01#	
			3900pF	±1%	GCM21B5C2E392FX01#	_
				±2%		
			470055	±5%	GCM21B5C2E392JX01#	
			4700pF	±1%	GCM21B5C2E472FX01# cates the package specification	L

Part Number

Сар.

(→ 2.0×1.25mm)

T max.	Rated Voltage	TC Code	Сар.	Tol.	Part Number	
1.45mm	250Vdc	COG	4700pF	±2%	GCM21B5C2E472GX01#	
				±5%	GCM21B5C2E472JX01#	
			5600pF	±1%	GCM21B5C2E562FX0A#	
				±2%	GCM21B5C2E562GX0A#	
				±5%	GCM21B5C2E562JX0A#	
			6800pF	±1%	GCM21B5C2E682FX0A#	
				±2%	GCM21B5C2E682GX0A#	
				±5%	GCM21B5C2E682JX0A#	
			8200pF	±1%	GCM21B5C2E822FX0A#	
				±2%	GCM21B5C2E822GX0A#	
				±5%	GCM21B5C2E822JX0A#	
			10000pF	±1%	GCM21B5C2E103FX0A#	
				±2%	GCM21B5C2E103GX0A#	
				±5%	GCM21B5C2E103JX0A#	
		U2J	2700pF	±5%	GCM21B7U2E272JX03#	
			3300pF	±5%	GCM21B7U2E332JX03#	
			3900pF	±5%	GCM21B7U2E392JX03#	
			4700pF	±5%	GCM21B7U2E472JX03#	
			5600pF	±5%	GCM21B7U2E562JX03#	

#### 3.2×1.6mm

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number			
0.95mm	100Vdc	COG	3600pF	±1%	GCM3195C2A362FA16#			
				±2%	GCM3195C2A362GA16#			
				±5%	GCM3195C2A362JA16#			
			3900pF	±1%	GCM3195C2A392FA16#			
				±2%	GCM3195C2A392GA16#			
				±5%	GCM3195C2A392JA16#			
			4300pF	±1%	GCM3195C2A432FA16#			
				±2%	GCM3195C2A432GA16#			
				±5%	GCM3195C2A432JA16#			
			4700pF	±1%	GCM3195C2A472FA16#			
				±2%	GCM3195C2A472GA16#			
				±5%	GCM3195C2A472JA16#			
			5100pF	±1%	GCM3195C2A512FA16#			
				±2%	GCM3195C2A512GA16#			
				±5%	GCM3195C2A512JA16#			
				5600pF	5600pF	±1%	GCM3195C2A562FA16#	
								±2%
				±5%	GCM3195C2A562JA16#			
						6800pF	±2%	GCM3195C2A682GA16#
						±5%	GCM3195C2A682JA16#	
			7500pF	±2%	GCM3195C2A752GA16#			
				±5%	GCM3195C2A752JA16#			
			8200pF	±1%	GCM3195C2A822FA16#			
				±2%	GCM3195C2A822GA16#			
				±5%	GCM3195C2A822JA16#			
			9100pF	±1%	GCM3195C2A912FA16#			
					-	±2%	GCM3195C2A912GA16#	
				±5%	GCM3195C2A912JA16#			
			10000pF	±1%	GCM3195C2A103FA16#			
				±2%	GCM3195C2A103GA16#			

					<u> </u>	
0.95mm	100Vdc	COG	10000pF	±5%	GCM3195C2A103JA16#	
		X8G	1600pF	±2%	GCM3195G2A162GA16#	
				±5%	GCM3195G2A162JA16#	
			1800pF	±2%	GCM3195G2A182GA16#	
				±5%	GCM3195G2A182JA16#	
			2000pF	±2%	GCM3195G2A202GA16#	
				±5%	GCM3195G2A202JA16#	
			2200pF	±2%	GCM3195G2A222GA16#	
				±5%	GCM3195G2A222JA16#	
			2400pF	±2%	GCM3195G2A242GA16#	
				±5%	GCM3195G2A242JA16#	
			2700pF	±2%	GCM3195G2A272GA16#	
				±5%	GCM3195G2A272JA16#	
			3000pF	±2%	GCM3195G2A302GA16#	
				±5%	GCM3195G2A302JA16#	
			3300pF	±2%	GCM3195G2A332GA16#	
				±5%	GCM3195G2A332JA16#	
			3600pF	±2%	GCM3195G2A362GA16#	
				±5%	GCM3195G2A362JA16#	
			3900pF	±2%	GCM3195G2A392GA16#	
				±5%	GCM3195G2A392JA16#	
			4300pF	±2%	GCM3195G2A432GA16#	
				±5%	GCM3195G2A432JA16#	
			4700pF	±2%	GCM3195G2A472GA16#	
				±5%	GCM3195G2A472JA16#	
			5100pF	±2%	GCM3195G2A512GA16#	
				±5%	GCM3195G2A512JA16#	
			5600pF	±2%	GCM3195G2A562GA16#	
				±5%	GCM3195G2A562JA16#	
	80Vdc	COG	27000pF	±2%	GCM3195C1K273GA16#	
				±5%	GCM3195C1K273JA16#	
			33000pF	±2%	GCM3195C1K333GA16#	
				±5%	GCM3195C1K333JA16#	
	50Vdc	COG	27000pF	±1%	GCM3195C1H273FA16#	
				±2%	GCM3195C1H273GA16#	
				±5%	GCM3195C1H273JA16#	
			33000pF	±1%	GCM3195C1H333FA16#	
				±2%	GCM3195C1H333GA16#	
				±5%	GCM3195C1H333JA16#	
			39000pF	±1%	GCM3195C1H393FA16#	
			32300pi	±2%	GCM3195C1H393GA16#	
				±5%	GCM3195C1H393JA16#	
		X8G	11000pF	±3 %	GCM3195G1H113GA16#	
		,,ou	11000pr	±2 % ±5%	GCM3195G1H113JA16#	
			12000pF	±2%	GCM3195G1H123GA16#	
			12000pr	±2% ±5%	GCM3195G1H123GA16#	
			13000pF	±3%	GCM3195G1H123JA16#	
			12000bt	±2% ±5%	GCM3195G1H133GA16#	
			15000-5			
			15000pF	±2%	GCM3195G1H153GA16#	
			16000 =	±5%	GCM3195G1H153JA16#	
			16000pF	±2%	GCM3195G1H163GA16#	
			10005	±5%	GCM3195G1H163JA16#	
		1	18000pF	±2%	GCM3195G1H183GA16#	
			10000р.	±5%	GCM3195G1H183JA16#	

(→ 3.2	×1.6mm	)			
T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number
0.95mm	50Vdc	X8G	20000pF	±2%	GCM3195G1H203GA16#
				±5%	GCM3195G1H203JA16#
			22000pF	±2%	GCM3195G1H223GA16#
				±5%	GCM3195G1H223JA16#
1.0mm	1000Vdc	COG	10pF	±1%	GCM31A5C3A100FX01#
				±2%	GCM31A5C3A100GX01#
				±5%	GCM31A5C3A100JX01#
			12pF	±1%	GCM31A5C3A120FX01#
				±2%	GCM31A5C3A120GX01#
				±5%	GCM31A5C3A120JX01#
			15pF	±1%	GCM31A5C3A150FX01#
				±2%	GCM31A5C3A150GX01#
				±5%	GCM31A5C3A150JX01#
			18pF	±1%	GCM31A5C3A180FX01#
				±2%	GCM31A5C3A180GX01#
				±5%	GCM31A5C3A180JX01#
			22pF	±1%	GCM31A5C3A220FX01#
				±2%	GCM31A5C3A220GX01#
				±5%	GCM31A5C3A220JX01#
			27pF	±1%	GCM31A5C3A270FX01#
				±2%	GCM31A5C3A270GX01#
				±5%	GCM31A5C3A270JX01#
			33pF	±1%	GCM31A5C3A330FX01#
				±2%	GCM31A5C3A330GX01#
				±5%	GCM31A5C3A330JX01#
			39pF	±1%	GCM31A5C3A390FX01#
				±2%	GCM31A5C3A390GX01#
				±5%	GCM31A5C3A390JX01#
			47pF	±1%	GCM31A5C3A470FX01#
			4761	±2%	GCM31A5C3A470GX01#
				±5%	GCM31A5C3A470JX01#
			56pF	±1%	GCM31A5C3A560FX01#
			56pF	±2%	GCM31A5C3A560GX01#
				±5%	GCM31A5C3A560JX01#
			60nE	±3% ±1%	GCM31A5C3A680FX01#
			68pF		GCM31A5C3A680GX01#
				±2%	
			02-5	±5%	GCM31A5C3A680JX01#
			82pF	±1%	GCM31A5C3A820FX01#
				±2%	GCM31A5C3A820GX01#
			100.5	±5%	GCM31A5C3A820JX01#
			100pF	±1%	GCM31A5C3A101FX01#
				±2%	GCM31A5C3A101GX01#
			105 -	±5%	GCM31A5C3A101JX01#
			120pF	±1%	GCM31A5C3A121FX01#
				±2%	GCM31A5C3A121GX01#
				±5%	GCM31A5C3A121JX01#
			150pF	±1%	GCM31A5C3A151FX01#
				±2%	GCM31A5C3A151GX01#
				±5%	GCM31A5C3A151JX01#
			180pF	±1%	GCM31A5C3A181FX01#
				±2%	GCM31A5C3A181GX01#
				±5%	GCM31A5C3A181JX01#
			220pF	±1%	GCM31A5C3A221FX01#
				±2%	GCM31A5C3A221GX01#

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number	
	1000Vdc		220pF	±5%	GCM31A5C3A221JX01#	
2.0	1000140		270pF	±1%	GCM31A5C3A271FX01#	
			•	±2%	GCM31A5C3A271GX01#	
				±5%	GCM31A5C3A271JX01#	
			330pF	±1%	GCM31A5C3A331FX01#	
			•	±2%	GCM31A5C3A331GX01#	
				±5%	GCM31A5C3A331JX01#	
			390pF	±1%	GCM31A5C3A391FX01#	
				±2%	GCM31A5C3A391GX01#	
				±5%	GCM31A5C3A391JX01#	
			470pF	±1%	GCM31A5C3A471FX01#	
				±2%	GCM31A5C3A471GX01#	
				±5%	GCM31A5C3A471JX01#	
		U2J	10pF	±5%	GCM31A7U3A100JX01#	
			12pF	±5%	GCM31A7U3A120JX01#	
			15pF	±5%	GCM31A7U3A150JX01#	
			18pF	±5%	GCM31A7U3A180JX01#	
			22pF	±5%	GCM31A7U3A220JX01#	
			27pF	±5%	GCM31A7U3A270JX01#	
			33pF	±5%	GCM31A7U3A330JX01#	
			39pF	±5%	GCM31A7U3A390JX01#	
			47pF	±5%	GCM31A7U3A470JX01#	
			56pF	±5%	GCM31A7U3A560JX01#	
			68pF	±5%	GCM31A7U3A680JX01#	
			82pF	±5%	GCM31A7U3A820JX01#	
			100pF	±5%	GCM31A7U3A101JX01#	
			120pF	±5%	GCM31A7U3A121JX01#	
			150pF	±5%	GCM31A7U3A151JX01#	
			180pF	±5%	GCM31A7U3A181JX01#	
			220pF	±5%	GCM31A7U3A221JX01#	
			270pF	±5%	GCM31A7U3A271JX01#	
			330pF	±5%	GCM31A7U3A331JX01#	
	630Vdc	COG	10pF	±1%	GCM31A5C2J100FX01#	
				±2%	GCM31A5C2J100GX01#	
			12.5	±5%	GCM31A5C2J100JX01#	
			12pF	±1%	GCM31A5C2J120FX01#	
				±2%	GCM31A5C2J120GX01#	
			1 F n F	±5% ±1%	GCM31A5C2J120JX01# GCM31A5C2J150FX01#	
			15pF	±1% ±2%	GCM31A5C2J150FX01#	
				±5%	GCM31A5C2J150JX01#	
			18pF	±1%	GCM31A5C2J180FX01#	
			торі	±2%	GCM31A5C2J180GX01#	
				±5%	GCM31A5C2J180JX01#	
			22pF	±1%	GCM31A5C2J220FX01#	
			225.	±2%	GCM31A5C2J220GX01#	
				±5%	GCM31A5C2J220JX01#	
			27pF	±1%	GCM31A5C2J270FX01#	
			1.1	±2%	GCM31A5C2J270GX01#	
				±5%	GCM31A5C2J270JX01#	
			33pF	±1%	GCM31A5C2J330FX01#	
				±2%	GCM31A5C2J330GX01#	
				±5%	GCM31A5C2J330JX01#	
			39pF	±1%	GCM31A5C2J390FX01#	
			Part num	ber#indi	cates the package specification	code.

(→ 3.2	×1.6mm	1)			
T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number
1.0mm	630Vdc	COG	39pF	±2%	GCM31A5C2J390GX01#
				±5%	GCM31A5C2J390JX01#
			47pF	±1%	GCM31A5C2J470FX01#
				±2%	GCM31A5C2J470GX01#
				±5%	GCM31A5C2J470JX01#
			56pF	±1%	GCM31A5C2J560FX01#
				±2%	GCM31A5C2J560GX01#
				±5%	GCM31A5C2J560JX01#
			68pF	±1%	GCM31A5C2J680FX01#
				±2%	GCM31A5C2J680GX01#
				±5%	GCM31A5C2J680JX01#
			82pF	±1%	GCM31A5C2J820FX01#
				±2%	GCM31A5C2J820GX01#
				±5%	GCM31A5C2J820JX01#
			100pF	±1%	GCM31A5C2J101FX01#
				±2%	GCM31A5C2J101GX01#
				±5%	GCM31A5C2J101JX01#
			120pF	±1%	GCM31A5C2J121FX01#
				±2%	GCM31A5C2J121GX01#
				±5%	GCM31A5C2J121JX01#
			150pF	±1%	GCM31A5C2J151FX01#
				±2%	GCM31A5C2J151GX01#
				±5%	GCM31A5C2J151JX01#
			180pF	±1%	GCM31A5C2J181FX01#
				±2%	GCM31A5C2J181GX01#
				±5%	GCM31A5C2J181JX01#
			220pF	±1%	GCM31A5C2J221FX01#
				±2%	GCM31A5C2J221GX01#
				±5%	GCM31A5C2J221JX01#
			270pF	±1%	GCM31A5C2J271FX01#
				±2%	GCM31A5C2J271GX01#
				±5%	GCM31A5C2J271JX01#
			330pF	±1%	GCM31A5C2J331FX01#
				±2%	GCM31A5C2J331GX01#
			222 5	±5%	GCM31A5C2J331JX01#
			390pF	±1%	GCM31A5C2J391FX01#
				±2%	GCM31A5C2J391GX01#
			470-5	±5%	GCM31A5C2J391JX01#
			470pF	±1%	GCM31A5C2J471FX01# GCM31A5C2J471GX01#
				±2%	
			560pF	±5%	GCM31A5C2J471JX01# GCM31A5C2J561FX01#
			360pr	±1% ±2%	GCM31A5C2J561GX01#
					GCM31A5C2J561JX01#
			680pF	±5% ±1%	GCM31A5C2J681FX01#
			Оворг		GCM31A5C2J681GX01#
				±2% ±5%	GCM31A5C2J681GX01#
			820pF	±5% ±1%	GCM31A5C2J881JX01#
			υΖυρτ	±1% ±2%	GCM31A5C2J821FX01#
				±2% ±5%	GCM31A5C2J821JX01#
			1000pF	±1%	GCM31A5C2J821JX01#
			1000bi-	±1% ±2%	GCM31A5C2J102FX01#
				±2 %	GCM31A5C2J102JX01#
			1200pF	±1%	GCM31A5C2J122FX01#
			1200pr	±1.70	GONGIAGOZGIZZEKUI#

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number	
1.0mm	630Vdc	COG	1200pF	±2%	GCM31A5C2J122GX01#	
				±5%	GCM31A5C2J122JX01#	
			1500pF	±1%	GCM31A5C2J152FX01#	
				±2%	GCM31A5C2J152GX01#	
				±5%	GCM31A5C2J152JX01#	
			1800pF	±1%	GCM31A5C2J182FX01#	_
				±2%	GCM31A5C2J182GX01#	
				±5%	GCM31A5C2J182JX01#	
		U2J	10pF	±5%	GCM31A7U2J100JX01#	
			12pF	±5%	GCM31A7U2J120JX01#	
			15pF	±5%	GCM31A7U2J150JX01#	
			18pF	±5%	GCM31A7U2J180JX01#	
			22pF	±5%	GCM31A7U2J220JX01#	
			27pF	±5%	GCM31A7U2J270JX01#	
			33pF	±5%	GCM31A7U2J330JX01#	
			39pF	±5%	GCM31A7U2J390JX01#	
			47pF	±5%	GCM31A7U2J470JX01#	
			56pF	±5%	GCM31A7U2J560JX01#	
			68pF	±5%	GCM31A7U2J680JX01#	
				±5%	GCM31A7U2J820JX01#	
			82pF			
			100pF	±5%	GCM31A7U2J101JX01#	
			120pF	±5%	GCM31A7U2J121JX01#	
			150pF	±5%	GCM31A7U2J151JX01#	
			180pF	±5%	GCM31A7U2J181JX01#	
			220pF	±5%	GCM31A7U2J221JX01#	
			270pF	±5%	GCM31A7U2J271JX01#	
			330pF	±5%	GCM31A7U2J331JX01#	
			390pF	±5%	GCM31A7U2J391JX01#	
			470pF	±5%	GCM31A7U2J471JX01#	
			560pF	±5%	GCM31A7U2J561JX01#	
			680pF	±5%	GCM31A7U2J681JX01#	
			820pF	±5%	GCM31A7U2J821JX01#	
			1000pF	±5%	GCM31A7U2J102JX01#	
			1200pF	±5%	GCM31A7U2J122JX01#	
			1500pF	±5%	GCM31A7U2J152JX01#	
			1800pF	±5%	GCM31A7U2J182JX01#	
			2200pF	±5%	GCM31A7U2J222JX01#	
1.25mm	1000Vdc	COG	560pF	±1%	GCM31B5C3A561FX01#	
				±2%	GCM31B5C3A561GX01#	
				±5%	GCM31B5C3A561JX01#	
			680pF	±1%	GCM31B5C3A681FX01#	
				±2%	GCM31B5C3A681GX01#	
				±5%	GCM31B5C3A681JX01#	
		U2J	390pF	±5%	GCM31B7U3A391JX01#	
			470pF	±5%	GCM31B7U3A471JX01#	
			560pF	±5%	GCM31B7U3A561JX01#	
			680pF	±5%	GCM31B7U3A681JX01#	
	630Vdc	COG	2200pF	±1%	GCM31B5C2J222FX01#	
				±2%	GCM31B5C2J222GX01#	
				±5%	GCM31B5C2J222JX01#	
			2700pF	±1%	GCM31B5C2J272FX01#	
				±2%	GCM31B5C2J272GX01#	
				±5%	GCM31B5C2J272JX01#	
		U2J	2700pF	±5%	GCM31B7U2J272JX01#	
			Part num	nber # indi	cates the package specification c	ode.

(→ 3.2	×1.6mm	)	•		•
T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number
1.25mm	630Vdc	U2J	3300pF	±5%	GCM31B7U2J332JX01#
	250Vdc	COG	12000pF	±1%	GCM31B5C2E123FX01#
				±2%	GCM31B5C2E123GX01#
				±5%	GCM31B5C2E123JX01#
		U2J	6800pF	±5%	GCM31B7U2E682JX01#
			8200pF	±5%	GCM31B7U2E822JX01#
			10000pF	±5%	GCM31B7U2E103JX01#
	50Vdc	COG	43000pF	±1%	GCM31M5C1H433FA16#
				±2%	GCM31M5C1H433GA16#
				±5%	GCM31M5C1H433JA16#
			47000pF	±1%	GCM31M5C1H473FA16#
				±2%	GCM31M5C1H473GA16#
				±5%	GCM31M5C1H473JA16#
			51000pF	±1%	GCM31M5C1H513FA16#
				±2%	GCM31M5C1H513GA16#
				±5%	GCM31M5C1H513JA16#
			56000pF	±1%	GCM31M5C1H563FA16#
				±2%	GCM31M5C1H563GA16#
				±5%	GCM31M5C1H563JA16#
1.8mm	1000Vdc	COG	820pF	±1%	GCM31C5C3A821FX03#
				±2%	GCM31C5C3A821GX03#
				±5%	GCM31C5C3A821JX03#
			1000pF	±1%	GCM31C5C3A102FX03#
				±2%	GCM31C5C3A102GX03#
				±5%	GCM31C5C3A102JX03#
		U2J	820pF	±5%	GCM31C7U3A821JX03#
			1000pF	±5%	GCM31C7U3A102JX03#
	630Vdc	COG	3300pF	±1%	GCM31C5C2J332FX03#
				±2%	GCM31C5C2J332GX03#
				±5%	GCM31C5C2J332JX03#
			3900pF	±1%	GCM31C5C2J392FX03#
				±2%	GCM31C5C2J392GX03#
				±5%	GCM31C5C2J392JX03#
			4700pF	±1%	GCM31C5C2J472FX03#
				±2%	GCM31C5C2J472GX03#
				±5%	GCM31C5C2J472JX03#
			5600pF	±1%	GCM31C5C2J562FX03#
				±2%	GCM31C5C2J562GX03#
				±5%	GCM31C5C2J562JX03#
			6800pF	±1%	GCM31C5C2J682FX03#
				±2%	GCM31C5C2J682GX03#
				±5%	GCM31C5C2J682JX03#
			8200pF	±1%	GCM31C5C2J822FX03#
				±2%	GCM31C5C2J822GX03#
				±5%	GCM31C5C2J822JX03#
			10000pF	±1%	GCM31C5C2J103FX03#
				±2%	GCM31C5C2J103GX03#
				±5%	GCM31C5C2J103JX03#
		U2J	3900pF	±5%	GCM31C7U2J392JX03#
			4700pF	±5%	GCM31C7U2J472JX03#
	250Vdc	COG	15000pF	±1%	GCM31C5C2E153FX03#
				±2%	GCM31C5C2E153GX03#
			10000	±5%	GCM31C5C2E153JX03#
			18000pF	±1%	GCM31C5C2E183FX03#

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number			
1.8mm	250Vdc	COG	18000pF	±2%	GCM31C5C2E183GX03#			
				±5%	GCM31C5C2E183JX03#			
			22000pF	±1%	GCM31C5C2E223FX03#			
				±2%	GCM31C5C2E223GX03#			
				±5%	GCM31C5C2E223JX03#			
	100Vdc	COG	62000pF	±5%	GCM31C5C2A623JE02#			
			68000pF	±5%	GCM31C5C2A683JE02#			
			75000pF	±5%	GCM31C5C2A753JE02#			
			82000pF	±5%	GCM31C5C2A823JE02#			
			91000pF	±5%	GCM31C5C2A913JE02#			
			0.10µF	±5%	GCM31C5C2A104JE02#			
	50Vdc	COG	62000pF	±1%	GCM31C5C1H623FA16#			
				±2%	GCM31C5C1H623GA16#			
						±5%	GCM31C5C1H623JA16#	
						68000pF	±1%	GCM31C5C1H683FA16#
				±2%	GCM31C5C1H683GA16#			
				±5%	GCM31C5C1H683JA16#			
			75000pF	±1%	GCM31C5C1H753FA16#			
				±2%	GCM31C5C1H753GA16#			
				±5%	GCM31C5C1H753JA16#			
			82000pF	±1%	GCM31C5C1H823FA16#			
				±2%	GCM31C5C1H823GA16#			
				±5%	GCM31C5C1H823JA16#			
			91000pF	±1%	GCM31C5C1H913FA16#			
				±2%	GCM31C5C1H913GA16#			
				±5%	GCM31C5C1H913JA16#			
			0.10µF	±1%	GCM31C5C1H104FA16#			
				±2%	GCM31C5C1H104GA16#			
				±5%	GCM31C5C1H104JA16#			

#### 3.2×2.5mm

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number
1.0mm	630Vdc	U2J	1200pF	±5%	GCM32A7U2J122JX01#
			1500pF	±5%	GCM32A7U2J152JX01#
			1800pF	±5%	GCM32A7U2J182JX01#
			2200pF	±5%	GCM32A7U2J222JX01#
1.25mm	1000Vdc	U2J	1200pF	±5%	GCM32B7U3A122JX01#
	630Vdc	U2J	5600pF	±5%	GCM32B7U2J562JX01#
1.5mm	1000Vdc	U2J	1500pF	±5%	GCM32Q7U3A152JX01#
	630Vdc	U2J	6800pF	±5%	GCM32Q7U2J682JX01#
2.0mm	1000Vdc	U2J	1800pF	±5%	GCM32D7U3A182JX01#
			2200pF	±5%	GCM32D7U3A222JX01#
	630Vdc	U2J	8200pF	±5%	GCM32D7U2J822JX01#
			10000pF	±5%	GCM32D7U2J103JX01#
2.85mm	630Vdc	COG	33000pF	±1%	GCM32E5C2J333FX0A#
				±2%	GCM32E5C2J333GX0A#
				±5%	GCM32E5C2J333JX0A#

#### 4.5×3.2mm

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number	
1.5mm	1000Vdc	U2J	2700pF	±5%	GCM43Q7U3A272JX01#	
			3300pF	±5%	GCM43Q7U3A332JX01#	
	630Vdc	U2J	12000pF	±5%	GCM43Q7U2J123JX01#	
2.0mm	1000Vdc	U2J	3900pF	±5%	GCM43D7U3A392JX01#	
			4700pF	±5%	GCM43D7U3A472JX01#	
	630Vdc	U2J	15000pF	±5%	GCM43D7U2J153JX01#	
			18000pF	±5%	GCM43D7U2J183JX01#	
			22000pF	±5%	GCM43D7U2J223JX01#	

#### 5.7×5.0mm

T max.	Rated Voltage	TC Code	Сар.	Tol.	Part Number	
1.5mm	1000Vdc	U2J	5600pF	±5%	GCM55Q7U3A562JX01#	
			6800pF	±5%	GCM55Q7U3A682JX01#	
	630Vdc	U2J	27000pF	±5%	GCM55Q7U2J273JX01#	
2.0mm	1000Vdc	U2J	8200pF	±5%	GCM55D7U3A822JX01#	
			10000pF	±5%	GCM55D7U3A103JX01#	
	630Vdc	U2J	33000pF	±5%	GCM55D7U2J333JX01#	
			39000pF	±5%	GCM55D7U2J393JX01#	
			47000pF	±5%	GCM55D7U2J473JX01#	

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Т	Rated	тс	Сар.	Tol.	Part Number															
max.	Voltage	Code																		
).33mm	1 25Vdc X7	X7R	100pF	±10%	GCM033R71E101KA03#															
				±20%	GCM033R71E101MA03#															
			120pF	±10%	GCM033R71E121KA03#															
				±20%	GCM033R71E121MA03#															
			150pF	±10%	GCM033R71E151KA03#															
				±20%	GCM033R71E151MA03#															
			180pF	±10%	GCM033R71E181KA03#															
				±20%	GCM033R71E181MA03#															
			220pF	±10%	GCM033R71E221KA03#															
				±20%	GCM033R71E221MA03#															
			270pF	±10%	GCM033R71E271KA03#															
				±20%	GCM033R71E271MA03#															
			330pF	±10%	GCM033R71E331KA03#															
				±20%	GCM033R71E331MA03#															
			390pF	±10%	GCM033R71E391KA03#															
				±20%	GCM033R71E391MA03#															
			470pF	±10%	GCM033R71E471KA03#															
				±20%	GCM033R71E471MA03#															
			560pF	±10%	GCM033R71E561KA03#															
				±20%	GCM033R71E561MA03#															
			680pF	±10%	GCM033R71E681KA03#															
				±20%	GCM033R71E681MA03#															
			820pF	±10%	GCM033R71E821KA03#															
																			±20%	GCM033R71E821MA03#
			1000pF	±10%	GCM033R71E102KA03#															
				±20%	GCM033R71E102MA03#															
			1200pF	±10%	GCM033R71E122KA03#															
				±20%	GCM033R71E122MA03#															
			1500pF	±10%	GCM033R71E152KA03#															
			· ·	±20%	GCM033R71E152MA03#															
			1800pF	±10%	GCM033R71E182KE02#															
			2200pF	±10%	GCM033R71E222KE02#															
			2700pF	±10%	GCM033R71E272KE02#															
			3300pF	±10%	GCM033R71E332KE02#															
	16Vdc	X7R	3300pF	±10%	GCM033R71C331KA03#															
	10000	^ / K	680pF	±10%	GCM033R71C531KA03#															
					GCM033R71C681KA03#															
			1800pF	±10%																
			2200-5	±20%	GCM033R71C182MA55#															
			2200pF	±10%	GCM033R71C222KA55#															
			2700 -	±20%	GCM033R71C222MA55#															
			2700pF	±10%	GCM033R71C272KA55#															
				±20%	GCM033R71C272MA55#															
			3300pF	±10%	GCM033R71C332KA55#															
		-		±20%	GCM033R71C332MA55#															
	10Vdc	X7R	1200pF	±10%	GCM033R71A122KA03#															
				±20%	GCM033R71A122MA03#															
			1500pF	±10%	GCM033R71A152KA03#															
				±20%	GCM033R71A152MA03#															
			1800pF	±10%	GCM033R71A182KA03#															
	1			±20%	GCM033R71A182MA03#															
				12070	del leggiti Parezi iAee															

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number	
0.33mm	10Vdc	X7R	2700pF	±10%	GCM033R71A272KA03#	
				±20%	GCM033R71A272MA03#	
			3300pF	±10%	GCM033R71A332KA03#	
				±20%	GCM033R71A332MA03#	_
			3900pF	±10%	GCM033R71A392KA03#	
				±20%	GCM033R71A392MA03#	
			4700pF	±10%	GCM033R71A472KA03#	
				±20%	GCM033R71A472MA03#	
			5600pF	±10%	GCM033R71A562KA03#	
				±20%	GCM033R71A562MA03#	
			6800pF	±10%	GCM033R71A682KA03#	
				±20%	GCM033R71A682MA03#	
			8200pF	±10%	GCM033R71A822KA03#	
				±20%	GCM033R71A822MA03#	
			10000pF	±10%	GCM033R71A103KA03#	
				±20%	GCM033R71A103MA03#	_

#### 1.0×0.5mm

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number
0.55mm	100Vdc	X7R	220pF	±10%	GCM155R72A221KA37#
				±20%	GCM155R72A221MA37#
			270pF	±10%	GCM155R72A271KA37#
				±20%	GCM155R72A271MA37#
			330pF	±10%	GCM155R72A331KA37#
				±20%	GCM155R72A331MA37#
			390pF	±10%	GCM155R72A391KA37#
				±20%	GCM155R72A391MA37#
			470pF	±10%	GCM155R72A471KA37#
				±20%	GCM155R72A471MA37#
			560pF	±10%	GCM155R72A561KA37#
				±20%	GCM155R72A561MA37#
			680pF	±10%	GCM155R72A681KA37#
				±20%	GCM155R72A681MA37#
			820pF	±10%	GCM155R72A821KA37#
				±20%	GCM155R72A821MA37#
			1000pF	±10%	GCM155R72A102KA37#
				±20%	GCM155R72A102MA37#
			1200pF	±10%	GCM155R72A122KA37#
				±20%	GCM155R72A122MA37#
			1500pF	±10%	GCM155R72A152KA37#
				±20%	GCM155R72A152MA37#
			1800pF	±10%	GCM155R72A182KA37#
				±20%	GCM155R72A182MA37#
			2200pF	±10%	GCM155R72A222KA37#
				±20%	GCM155R72A222MA37#
			2700pF	±10%	GCM155R72A272KA37#
				±20%	GCM155R72A272MA37#
			3300pF	±10%	GCM155R72A332KA37#
				±20%	GCM155R72A332MA37#
			3900pF	±10%	GCM155R72A392KA37#
				±20%	GCM155R72A392MA37#
			4700pF	±10%	GCM155R72A472KA37#
			Part num	ber#indi	cates the package specification code.

±20% GCM033R71A222MA03#

(→ 1.0>	0.5mm	)				
T max.	Rated Voltage	TC Code	Сар.	Tol.	Part Number	
0.55mm	100Vdc	X7R	4700pF	±20%	GCM155R72A472MA37#	
	50Vdc	X8L	220pF	±10%	GCM155L81H221KA37#	
				±20%	GCM155L81H221MA37#	
			270pF	±10%	GCM155L81H271KA37#	
				±20%	GCM155L81H271MA37#	
			330pF	±10%	GCM155L81H331KA37#	
				±20%	GCM155L81H331MA37#	
			390pF	±10%	GCM155L81H391KA37#	
				±20%	GCM155L81H391MA37#	
			470pF	±10%	GCM155L81H471KA37#	
				±20%	GCM155L81H471MA37#	
			560pF	±10%	GCM155L81H561KA37#	
				±20%	GCM155L81H561MA37#	
			680pF	±10%	GCM155L81H681KA37#	
				±20%	GCM155L81H681MA37#	
			820pF	±10%	GCM155L81H821KA37#	
				±20%	GCM155L81H821MA37#	
			1000pF	±10%	GCM155L81H102KA37#	
				±20%	GCM155L81H102MA37#	
			1200pF	±10%	GCM155L81H122KA37#	
				±20%	GCM155L81H122MA37#	
			1500pF	±10%	GCM155L81H152KA37#	
				±20%	GCM155L81H152MA37#	
			1800pF	±10%	GCM155L81H182KA37#	
				±20%	GCM155L81H182MA37#	
			2200pF	±10%	GCM155L81H222KA37#	
				±20%	GCM155L81H222MA37#	
			2700pF	±10%	GCM155L81H272KA37#	
				±20%	GCM155L81H272MA37#	
			3300pF	±10%	GCM155L81H332KA37#	
				±20%	GCM155L81H332MA37#	
			3900pF	±10%	GCM155L81H392KA37#	
				±20%	GCM155L81H392MA37#	
			4700pF	±10%	GCM155L81H472KA37#	
				±20%	GCM155L81H472MA37#	
			33000pF	±10%	GCM155L8EH333KE07#	D4
			47000pF	±10%	GCM155L8EH473KE07#	D4
			68000pF	±10%	GCM155L8EH683KE07#	D4
			0.10µF	±10%	GCM155L8EH104KE07#	D4
		X7R	220pF	±10%	GCM155R71H221KA37#	_
				±20%	GCM155R71H221MA37#	
			270pF	±10%	GCM155R71H271KA37#	
				±20%	GCM155R71H271MA37#	
			330pF	±10%	GCM155R71H331KA37#	
				±20%	GCM155R71H331MA37#	
			390pF	±10%	GCM155R71H391KA37#	
			-355.	±20%	GCM155R71H391MA37#	
			470pF	±10%	GCM155R71H471KA37#	
			55'	±20%	GCM155R71H471MA37#	
			560pF	±10%	GCM155R71H561KA37#	
			55061	±10%	GCM155R71H561MA37#	
			680pF	±10%	GCM155R71H681KA37#	
			σσορε	±10% ±20%	GCM155R71H681RA37#	
			820nE			
			820pF	±10%	GCM155R71H821KA37#	<u></u>

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number	
0.55mm	50Vdc	X7R	820pF	±20%	GCM155R71H821MA37#	
			1000pF	±10%	GCM155R71H102KA37#	
				±20%	GCM155R71H102MA37#	
			1200pF	±10%	GCM155R71H122KA37#	
				±20%	GCM155R71H122MA37#	
			1500pF	±10%	GCM155R71H152KA37#	
				±20%	GCM155R71H152MA37#	
			1800pF	±10%	GCM155R71H182KA37#	
				±20%	GCM155R71H182MA37#	
			2200pF	±10%	GCM155R71H222KA37#	
				±20%	GCM155R71H222MA37#	
			2700pF	±10%	GCM155R71H272KA37#	
				±20%	GCM155R71H272MA37#	
			3300pF	±10%	GCM155R71H332KA37#	
				±20%	GCM155R71H332MA37#	
			3900pF	±10%	GCM155R71H392KA37#	
				±20%	GCM155R71H392MA37#	
			4700pF	±10%	GCM155R71H472KA37#	
				±20%	GCM155R71H472MA37#	
			5600pF	±10%	GCM155R71H562KA55#	
				±20%	GCM155R71H562MA55#	
			6800pF	±10%	GCM155R71H682KA55#	
				±20%	GCM155R71H682MA55#	
			8200pF	±10%	GCM155R71H822KA55#	
				±20%	GCM155R71H822MA55#	
			10000pF	±10%	GCM155R71H103KA55#	
				±20%	GCM155R71H103MA55#	
			12000pF	±10%	GCM155R71H123KA55#	
				±20%	GCM155R71H123MA55#	
			15000pF	±10%	GCM155R71H153KA55#	
				±20%	GCM155R71H153MA55#	
			18000pF	±10%	GCM155R71H183KA55#	
				±20%	GCM155R71H183MA55#	
			22000pF	±10%	GCM155R71H223KA55#	
				±20%	GCM155R71H223MA55#	
			33000pF	±10%	GCM155R71H333KE02#	
				±20%	GCM155R71H333ME02#	
			47000pF	±10%	GCM155R71H473KE02#	
				±20%	GCM155R71H473ME02#	
			68000pF	±10%	GCM155R71H683KE02#	
				±20%	GCM155R71H683ME02#	
			0.10µF	±10%	GCM155R71H104KE02#	
				±20%	GCM155R71H104ME02#	
	25Vdc	X8L	5600pF	±10%	GCM155L81E562KA37#	
			·	±20%	GCM155L81E562MA37#	
			6800pF	±10%	GCM155L81E682KA37#	
				±20%	GCM155L81E682MA37#	
			8200pF	±10%	GCM155L81E822KA37#	
				±20%	GCM155L81E822MA37#	
			10000pF	±10%	GCM155L81E103KA37#	
				±20%	GCM155L81E103MA37#	
			0.10µF	±10%	GCM155L81E104KE02#	
		X7R	4700pF	±10%	GCM155R71E472KA37#	
			5600pF	±10%	GCM155R71E562KA37#	
		1	Davit n	bor#indi		

(→ 1.0>	۰0.5mm	1)			
T max.	Rated Voltage	TC Code	Сар.	Tol.	Part Number
0.55mm	25Vdc	X7R	5600pF	±20%	GCM155R71E562MA37#
			6800pF	±10%	GCM155R71E682KA37#
				±20%	GCM155R71E682MA37#
			8200pF	±10%	GCM155R71E822KA37#
				±20%	GCM155R71E822MA37#
			10000pF	±10%	GCM155R71E103KA37#
				±20%	GCM155R71E103MA37#
			12000pF	±10%	GCM155R71E123KA55#
				±20%	GCM155R71E123MA55#
			15000pF	±10%	GCM155R71E153KA55#
				±20%	GCM155R71E153MA55#
			18000pF	±10%	GCM155R71E183KA55#
				±20%	GCM155R71E183MA55#
			22000pF	±10%	GCM155R71E223KA55#
				±20%	GCM155R71E223MA55#
			27000pF	±10%	GCM155R71E273KA55#
			22222 5	±20%	GCM155R71E273MA55#
			33000pF	±10%	GCM155R71E333KA55#
			20000.5	±20%	GCM155R71E333MA55#
			39000pF	±10%	GCM155R71E393KA55#
			47000-5	±20%	GCM155R71E393MA55#
			47000pF	±10%	GCM155R71E473KA55# GCM155R71E473MA55#
			0.1005	±10%	GCM155R71E473MA55#
	16Vdc	X8L	0.10µF 15000pF	±10%	GCM155L81C153KA37#
	10000	\ \	13000рі	±20%	GCM155L81C153MA37#
			18000pF	±10%	GCM155L81C183KA37#
			Тоосорі	±20%	GCM155L81C183MA37#
			22000pF	±10%	GCM155L81C223KA37#
				±20%	GCM155L81C223MA37#
			27000pF	±10%	GCM155L81C273KA37#
				±20%	GCM155L81C273MA37#
			33000pF	±10%	GCM155L81C333KA37#
				±20%	GCM155L81C333MA37#
			39000pF	±10%	GCM155L81C393KA37#
				±20%	GCM155L81C393MA37#
			47000pF	±10%	GCM155L81C473KA37#
				±20%	GCM155L81C473MA37#
		X7R	27000pF	±10%	GCM155R71C273KA37#
				±20%	GCM155R71C273MA37#
			33000pF	±10%	GCM155R71C333KA37#
				±20%	GCM155R71C333MA37#
			39000pF	±10%	GCM155R71C393KA37#
				±20%	GCM155R71C393MA37#
			47000pF	±10%	GCM155R71C473KA37#
				±20%	GCM155R71C473MA37#
			56000pF	±10%	GCM155R71C563KA55#
				±20%	GCM155R71C563MA55#
			68000pF	±10%	GCM155R71C683KA55#
				±20%	GCM155R71C683MA55#
			82000pF	±10%	GCM155R71C823KA55#
				±20%	GCM155R71C823MA55#
			0.10µF	±10%	GCM155R71C104KA55#
				±20%	GCM155R71C104MA55#

T max.	Rated Voltage	TC Code	Сар.	Tol.	Part Number
0.55mm	16Vdc	X7R	0.15µF	±10%	GCM155R71C154KE02#
				±20%	GCM155R71C154ME02#
			0.22µF	±10%	GCM155R71C224KE02#
				±20%	GCM155R71C224ME02#
	10Vdc	X7R	0.10µF	±10%	GCM155R71A104KA55#
0.6mm	10Vdc	X7S	0.47µF	±10%	GCM155C71A474KE36#
				±20%	GCM155C71A474ME36#
0.7mm	10Vdc	X7S	0.68µF	±10%	GCM155C71A684KE38#
				±20%	GCM155C71A684ME38#
			1.0µF	±10%	GCM155C71A105KE38#
				±20%	GCM155C71A105ME38#

#### 1.6×0.8mm

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number	
0.9mm	100Vdc	X8R	1000pF	±10%	GCM188R92A102KA37#	
				±20%	GCM188R92A102MA37#	
			1500pF	±10%	GCM188R92A152KA37#	
				±20%	GCM188R92A152MA37#	
			2200pF	±10%	GCM188R92A222KA37#	
				±20%	GCM188R92A222MA37#	
			3300pF	±10%	GCM188R92A332KA37#	
				±20%	GCM188R92A332MA37#	
			4700pF	±10%	GCM188R92A472KA37#	
				±20%	GCM188R92A472MA37#	
			6800pF	±10%	GCM188R92A682KA37#	
				±20%	GCM188R92A682MA37#	
			10000pF	±10%	GCM188R92A103KA37#	
				±20%	GCM188R92A103MA37#	
		X7R	5600pF	±10%	GCM188R72A562KA37#	
				±20%	GCM188R72A562MA37#	
			6800pF	±10%	GCM188R72A682KA37#	
				±20%	GCM188R72A682MA37#	
			8200pF	±10%	GCM188R72A822KA37#	
				±20%	GCM188R72A822MA37#	
			10000pF	±10%	GCM188R72A103KA37#	
				±20%	GCM188R72A103MA37#	
			12000pF	±10%	GCM188R72A123KA37#	
				±20%	GCM188R72A123MA37#	
			15000pF	±10%	GCM188R72A153KA37#	
				±20%	GCM188R72A153MA37#	
			18000pF	±10%	GCM188R72A183KA37#	
				±20%	GCM188R72A183MA37#	
			22000pF	±10%	GCM188R72A223KA37#	
				±20%	GCM188R72A223MA37#	
	50Vdc	X8L	5600pF	±10%	GCM188L81H562KA03#	
				±20%	GCM188L81H562MA03#	
			6800pF	±10%	GCM188L81H682KA03#	
				±20%	GCM188L81H682MA03#	
			8200pF	±10%	GCM188L81H822KA03#	
				±20%	GCM188L81H822MA03#	
			10000pF	±10%	GCM188L81H103KA03#	
				±20%	GCM188L81H103MA03#	
			Part num	ber#indi	cates the package specification	code.

(→ 1.6	0.8mm	1)				
T max.	Rated Voltage	TC Code	Сар.	Tol.	Part Number	
0.9mm	50Vdc	X8L	12000pF	±10%	GCM188L81H123KA37#	
				±20%	GCM188L81H123MA37#	
			15000pF	±10%	GCM188L81H153KA37#	
				±20%	GCM188L81H153MA37#	
			18000pF	±10%	GCM188L81H183KA37#	
				±20%	GCM188L81H183MA37#	
			22000pF	±10%	GCM188L81H223KA37#	
				±20%	GCM188L81H223MA37#	
			27000pF	±10%	GCM188L81H273KA55#	
				±20%	GCM188L81H273MA55#	
			33000pF	±10%	GCM188L81H333KA55#	
				±20%	GCM188L81H333MA55#	
			39000pF	±10%	GCM188L81H393KA55#	
				±20%	GCM188L81H393MA55#	
			47000pF	±10%	GCM188L81H473KA55#	
				±20%	GCM188L81H473MA55#	
			56000pF	±10%	GCM188L81H563KA57#	
				±20%	GCM188L81H563MA57#	
			68000pF	±10%	GCM188L81H683KA57#	
				±20%	GCM188L81H683MA57#	
			82000pF	±10%	GCM188L81H823KA57#	
				±20%	GCM188L81H823MA57#	
			0.10µF	±10%	GCM188L81H104KA57#	
				±20%	GCM188L81H104MA57#	
		X8R	1000pF	±10%	GCM188R91H102KA37#	
				±20%	GCM188R91H102MA37#	
			1500pF	±10%	GCM188R91H152KA37#	
				±20%	GCM188R91H152MA37#	
			2200pF	±10%	GCM188R91H222KA37#	
			2200-5	±20%	GCM188R91H222MA37#	
			3300pF	±10% ±20%	GCM188R91H332KA37#	
			4700pF		GCM188R91H332MA37# GCM188R91H472KA37#	
			4700pF	±10% ±20%	GCM188R91H472MA37#	—
			6800pF	±10%	GCM188R91H682KA37#	—
			ООООРІ	±20%	GCM188R91H682MA37#	—
			10000pF	±10%	GCM188R91H103KA37#	—
			Госсорі	±20%	GCM188R91H103MA37#	—
			15000pF	±10%	GCM188R91H153KA37#	—
			2000ор.	±20%	GCM188R91H153MA37#	—
			22000pF	±10%	GCM188R91H223KA37#	
				±20%	GCM188R91H223MA37#	
			33000pF	±10%	GCM188R91H333KA37#	
				±20%	GCM188R91H333MA37#	
			47000pF	±10%	GCM188R91H473KA37#	
			'	±20%	GCM188R91H473MA37#	
		X7R	0.15µF	±10%	GCM188R71H154KA64#	
				±20%	GCM188R71H154MA64#	
			0.22µF	±10%	GCM188R71H224KA64#	_
				±20%	GCM188R71H224MA64#	
	25Vdc	X8L	0.22µF	±10%	GCM188L81E224KA64#	
		X8R	68000pF	±10%	GCM188R91E683KA37#	
				±20%	GCM188R91E683MA37#	
			0.10µF	±10%	GCM188R91E104KA37#	

0.9mm   25Vdc   X8R   0.10μF   ±20%   GCM188R91E104MA37#   ±20%   GCM188R71E124KA37#   ±20%   GCM188R71E124KA37#   ±20%   GCM188R71E124MA37#   0.15μF   ±10%   GCM188R71E154KA37#   ±20%   GCM188R71E154KA37#   ±20%   GCM188R71E154KA37#   ±20%   GCM188R71E154MA37#   0.18μF   ±10%   GCM188R71E184KA55#   ±20%   GCM188R71E224KA55#   ±20%   GCM188R71E224KA55#   ±20%   GCM188R71E224KA55#   ±20%   GCM188R71E474KA64#   ±20%   GCM188R71E105KA64#   ±20%   GCM188R71E105KA64#   ±20%   GCM188R71E105KA64#   ±20%   GCM188R71E105KA64#   ±20%   GCM188L81C124KA37#   ±20%   GCM188L81C124KA37#   ±20%   GCM188L81C134MA37#   ±20%   GCM188L81C134MA37#   ±20%   GCM188L81C34KA37#   ±20%   GCM188L81C24KA37#   ±20%   GCM188L81C24MA37#   ±20%   GCM188L81C24MA37#   ±20%   GCM188R71C34KA37#   ±20%   GCM188R71C34KA37#   ±20%   GCM188R71C34KA37#   ±20%   GCM188R71C34MA37#   ±20%   GCM188R71C34MA37#   ±20%   GCM188R71C34MA37#   ±20%   GCM188R71C34MA37#   ±20%   GCM188R71C34MA37#   ±20%   GCM188R71C34MA37#   ±20%   GCM188R71C34MA37#   ±20%   GCM188R71C34MA37#   ±20%   GCM188R71C34MA37#   ±20%   GCM188R71C34MA37#   ±20%   GCM188R71C34MA37#   ±20%   GCM188R71C34MA37#   ±20%   GCM188R71C34MA37#   ±20%   GCM188R71C34MA37#   ±20%   GCM188R71C34MA37#   ±20%   GCM188R71C34MA355#   ±20%   GCM188R71C34MA355#   ±20%   GCM188R71C34MA355#   ±20%   GCM188R71C34MA37#   ±20%   GCM188R71C34MA355#   ±20%   GCM188R71C34MA355#   ±20%   GCM188R71C34MA355#   ±20%   GCM188R71C34MA355#   ±20%   GCM188R71C34MA355#   ±20%   GCM188R71C34MA355#   ±20%   GCM188R71C34MA355#   ±20%   GCM188R71C34MA364#   ±20%   GCM188R71C35MA64#   ±20%   GCM188R71C35MA64#   ±20%   GCM188R71C35MA64#   ±20%   GCM188R71C35MA64#   ±20%   GCM188R70J225KE22#   ±20%   GCM188R70J225KE22#   ±20%   GCM188D70J106ME36#   ±20%   GCM188D70J106ME36#   €0M18BD70J106ME36#   €0M18BD70J106ME36#   €0M18BD70J106ME36#   €0M18BD70J106ME36#   €0M18BD70J106ME36#   €0M18BD70J106ME36#   €0M18BD70J106ME36#   €0M18BD70J106ME36#   €0M18BD70J106ME36#   €0M18BD70J106ME36#   €0M18BD70J106ME36#   €0M18BD70J106ME36#   €0M1	Т	Rated	тс	Cap.	Tol.	Part Number	
X7R	max.	Voltage	Code	сар.	101.	Fait Nullibel	
±20% GCM188R71E124MA37#     ±20% GCM188R71E154KA37#     ±20% GCM188R71E154MA37#     ±20% GCM188R71E154MA37#     ±20% GCM188R71E184MA55#     ±20% GCM188R71E184MA55#     ±20% GCM188R71E224MA55#     ±20% GCM188R71E224MA55#     ±20% GCM188R71E224MA55#     ±20% GCM188R71E214MA64#     ±20% GCM188R71E105KA64#     ±20% GCM188R71E105KA64#     ±20% GCM188R71E105MA64#     ±20% GCM188L81C124MA37#     ±20% GCM188L81C124MA37#     ±20% GCM188L81C154MA37#     ±20% GCM188L81C154MA37#     ±20% GCM188L81C154MA37#     ±20% GCM188L81C124MA37#     ±20% GCM188L81C124MA37#     ±20% GCM188L81C124MA37#     ±20% GCM188L81C124MA37#     ±20% GCM188L81C124MA37#     ±20% GCM188L81C224MA37#     ±20% GCM188L81C224MA37#     ±20% GCM188L81C224MA37#     ±20% GCM188R71C274MA37#     ±20% GCM188R71C334MA37#     ±20% GCM188R71C334MA37#     ±20% GCM188R71C334MA37#     ±20% GCM188R71C334MA37#     ±20% GCM188R71C334MA37#     ±20% GCM18R71C334MA37#     ±20% GCM18R71C334MA55#     ±20% GCM18R71C334MA55#     ±20% GCM18R71C334MA55#     ±20% GCM18R71C35MA64#     ±20% GCM18R71C105MA64#     ±20% GCM18R71C	0.9mm	25Vdc	X8R	0.10µF	±20%	GCM188R91E104MA37#	
0.15μF   ±10%   GCM188R71E154KA37#     ±20%   GCM188R71E154MA37#     0.18μF   ±10%   GCM188R71E184KA55#     ±20%   GCM188R71E184KA55#     ±20%   GCM188R71E224KA55#     ±20%   GCM188R71E224KA55#     ±20%   GCM188R71E224KA55#     ±20%   GCM188R71E105KA64#     ±20%   GCM188R71E105KA64#     ±20%   GCM188R71E105KA64#     ±20%   GCM188R71E105KA64#     ±20%   GCM188L81C124KA37#     ±20%   GCM188L81C124KA37#     ±20%   GCM188L81C154KA37#     ±20%   GCM188L81C154KA37#     ±20%   GCM188L81C154KA37#     ±20%   GCM188L81C224KA37#     ±20%   GCM188L81C224KA37#     ±20%   GCM188L81C224KA37#     ±20%   GCM188R71C274KA37#     ±20%   GCM188R71C274KA37#     ±20%   GCM188R71C334KA37#     ±20%   GCM188R71C334KA37#     ±20%   GCM188R71C334KA37#     ±20%   GCM188R71C334KA37#     ±20%   GCM188R71C334KA37#     ±20%   GCM188R71C334KA35#     ±20%   GCM188R71C334KA55#     ±20%   GCM188R71C35KA64#     ±20%   GCM188R71C35KA64#     ±20%   GCM188R71C35KA64#     ±20%   GCM188R71C35KA64#     ±20%   GCM188R71C35KA64#     ±20%   GCM188R71C35KA64#     ±20%   GCM188R71C35KA64#     ±20%   GCM188R71C35KA64#     ±20%   GCM188R71C35KA64#     ±20%   GCM188R71C35KA64#     ±20%   GCM188R71C35KA64#     ±20%   GCM188R71C35KA64#     ±20%   GCM188R71C35KA64#     ±20%   GCM188R70J325KE22#     ±20%   GCM188R70J325KE22#     ±20%   GCM188R70J325KE22#			X7R	0.12µF	±10%	GCM188R71E124KA37#	
1.0μ					±20%	GCM188R71E124MA37#	
0.18μF   ±10%   GCM188R71E184KA55#   ±20%   GCM188R71E184MA55#   ±20%   GCM188R71E224KA55#   ±20%   GCM188R71E224KA55#   ±20%   GCM188R71E474KA64#   ±20%   GCM188R71E474KA64#   ±20%   GCM188R71E105KA64#   ±20%   GCM188R71E105KA64#   ±20%   GCM188R71E105KA64#   ±20%   GCM188R71E105KA64#   ±20%   GCM188R31E105KA64#   ±20%   GCM188L81C124KA37#   ±20%   GCM188L81C124KA37#   ±20%   GCM188L81C154KA37#   ±20%   GCM188L81C154KA37#   ±20%   GCM188L81C184KA37#   ±20%   GCM188L81C224KA37#   ±20%   GCM188L81C224KA37#   ±20%   GCM188L81C224KA37#   ±20%   GCM188R31C224KA37#   ±20%   GCM188R31C224KA37#   ±20%   GCM188R31C234MA37#   ±20%   GCM188R31C334KA37#   ±20%   GCM188R31C334KA37#   ±20%   GCM188R31C334KA37#   ±20%   GCM188R31C334KA37#   ±20%   GCM188R31C334KA37#   ±20%   GCM188R31C334KA37#   ±20%   GCM188R31C334KA37#   ±20%   GCM188R31C334KA37#   ±20%   GCM188R31C334KA35#   ±20%   GCM188R31C334KA35#   ±20%   GCM188R31C334KA35#   ±20%   GCM188R31C334KA35#   ±20%   GCM188R31C334KA35#   ±20%   GCM188R31C334KA36#   ±20%   GCM188R31C334KA36#   ±20%   GCM188R31C334KA64#   ±20%   GCM188R31C325KE22#   ±20%   GCM188R30J225KE22#   ±20%   GCM188R30J225KE22#   ±20%   GCM188R30J225KE22#   ±20%   GCM188R30J235KE22#   ±20%   GCM188R30J325KE22#   ±20%   GCM188R30J325KE22#   ±20%   GCM188R30J325KE22#   ±20%   GCM188R30J325KE22#   ±20%   GCM188R30J325KE22#   ±20%   GCM188R30J325KE22#   ±20%   GCM188R30J325KE22#   ±20%   GCM188R30J325KE22#   ±20%   GCM188R30J325KE22#   ±20%   GCM188R30J325KE22#   ±20%   GCM188R30J325KE22#   ±20%   GCM188R30J325KE22#   ±20%   GCM188R30J325KE22#   ±20%   GCM188R30J325KE22#   ±20%   GCM188D30J306ME36#   ±20%   GCM188D30J306ME36#   ±20%   GCM188D30J306ME36#   ±20%   GCM188D30J306ME36#   ±20%   GCM188D30J306ME36#   ±20%   GCM188D30J306ME36#   ±20%   GCM188D30J306ME36#   ±20%   GCM188D30J306ME36#   ±20%   GCM188D30J306ME36#   ±20%   GCM188D30J306ME36#   ±20%   GCM188D30J306ME36#   ±20%   GCM188D30J306ME36#   ±20%   GCM188D30J306ME36#   ±20%   GCM188D30J306ME36#   ±20%   GCM188D30J306ME36#   ±20%   GCM188D30J3				0.15µF	±10%	GCM188R71E154KA37#	
16Vdc   22μF   10%   220%   24mastrile   24masts   220%   3cmissrile   24masts   220%   3cmissrile   24masts   220%   3cmissrile   24masts   220%   3cmissrile   24masts   220%   3cmissrile   24masts   220%   3cmissrile   24masts   220%   3cmissrile   24masts   220%   3cmissrile   24masts   220%   3cmissrile   24masts   220%   3cmissrile   24masts   220%   3cmisslile   24masts   24					±20%	GCM188R71E154MA37#	
0.22μF   ±10%   GCM188R71E224MA55#   ±20%   GCM188R71E224MA55#   ±20%   GCM188R71E474MA64#   ±20%   GCM188R71E105KA64#   ±20%   GCM188R71E105KA64#   ±20%   GCM188R71E105KA64#   ±20%   GCM188R71E105MA64#   ±20%   GCM188R81C124KA37#   ±20%   GCM188L81C124MA37#   ±20%   GCM188L81C154MA37#   ±20%   GCM188L81C154MA37#   ±20%   GCM188L81C154MA37#   ±20%   GCM188L81C154MA37#   ±20%   GCM188L81C124MA37#   ±20%   GCM188L81C124KA37#   ±20%   GCM188L81C224KA37#   ±20%   GCM188L81C224KA37#   ±20%   GCM188L81C224MA37#   ±20%   GCM188R71C274KA37#   ±20%   GCM188R71C274MA37#   ±20%   GCM188R71C274MA37#   ±20%   GCM188R71C334KA37#   ±20%   GCM188R71C334MA37#   ±20%   GCM188R71C334MA37#   ±20%   GCM188R71C394MA55#   ±20%   GCM188R71C394MA55#   ±20%   GCM188R71C394MA55#   ±20%   GCM188R71C105KA64#   ±20%   GCM188R71C105KA64#   ±20%   GCM188R71C105MA64#   ±20%   GCM188R71C105MA64#   ±20%   GCM188R71C1684MA64#   ±20%   GCM188R71C25KE22#   ±20%   GCM188R70J225KE22#   ±20%   GCM188R70J225KE22#   ±20%   GCM188R70J225KE22#   ±20%   GCM188R70J225KE22#   ±20%   GCM188R70J225KE22#   ±20%   GCM188R70J225KE22#   ±20%   GCM188R70J225KE22#   ±20%   GCM188R70J225KE22#   ±20%   GCM188R70J225ME22#   ±20%   GCM188R70J205ME36#   ±20%   GCM188R70J205ME36#   ±20%   GCM188R70J205ME36#   ±20%   GCM188R70J205ME36#   ±20%   GCM188R70J205ME36#   ±20%   GCM188R70J205ME36#   ±20%   GCM188R70J2				0.18µF	±10%	GCM188R71E184KA55#	
±20% GCM188R71E224MA55#     0.47μF   ±10% GCM188R71E474KA64#     ±20% GCM188R71E474MA64#     1.0μF   ±10% GCM188R71E105KA64#     ±20% GCM188R71E105MA64#     ±20% GCM188R71E105MA64#     ±20% GCM188R1C124KA37#     ±20% GCM188L81C124MA37#     ±20% GCM188L81C154MA37#     ±20% GCM188L81C154MA37#     ±20% GCM188L81C184KA37#     ±20% GCM188L81C184KA37#     ±20% GCM188L81C224KA37#     ±20% GCM188L81C224KA37#     ±20% GCM188R71C274KA37#     ±20% GCM188R71C274KA37#     ±20% GCM188R71C334KA37#     ±20% GCM188R71C334MA37#     ±20% GCM188R71C334MA37#     ±20% GCM188R71C394KA55#     ±20% GCM188R71C394MA55#     ±20% GCM188R71C394MA55#     ±20% GCM188R71C474KA55#     ±20% GCM188R71C105KA64#     ±20% GCM188R71C105KA64#     ±20% GCM188R71C105KA64#     ±20% GCM188R71C105MA64#     ±20% GCM188R71C1684KA64#     ±20% GCM188R70J225KE22#     ±20% GCM188R70J225KE22#     ±20% GCM188R70J225KE22#     ±20% GCM188R70J225KE22#     ±20% GCM188R70J225KE22#     ±20% GCM188R70J225KE22#     ±20% GCM188R70J225KE22#     ±20% GCM188R70J225KE22#     ±20% GCM188R70J225KE22#     ±20% GCM188R70J225KE22#     ±20% GCM188R70J225KE22#     ±20% GCM188R70J225KE22#     ±20% GCM188R70J225KE22#     ±20% GCM188R70J225KE22#     ±20% GCM188R70J225ME22#     ±20% GCM188R70J225KE22#     ±20% GCM188R70J225ME22#					±20%	GCM188R71E184MA55#	
0.47μF   ±10%   GCM188R71E474KA64#   ±20%   GCM188R71E474MA64#   ±20%   GCM188R71E105KA64#   ±20%   GCM188R71E105KA64#   ±20%   GCM188R71E105MA64#   ±20%   GCM188R71E105MA64#   ±20%   GCM188L81C124KA37#   ±20%   GCM188L81C124KA37#   ±20%   GCM188L81C154MA37#   ±20%   GCM188L81C154MA37#   ±20%   GCM188L81C184MA37#   ±20%   GCM188L81C184MA37#   ±20%   GCM188L81C224KA37#   ±20%   GCM188L81C224KA37#   ±20%   GCM188R71C274KA37#   ±20%   GCM188R71C274KA37#   ±20%   GCM188R71C334KA37#   ±20%   GCM188R71C334KA37#   ±20%   GCM188R71C334MA37#   ±20%   GCM188R71C334MA37#   ±20%   GCM188R71C334MA37#   ±20%   GCM188R71C334MA55#   ±20%   GCM188R71C394MA55#   ±20%   GCM188R71C394MA55#   ±20%   GCM188R71C105KA64#   ±20%   GCM188R71C105KA64#   ±20%   GCM188R71C105KA64#   ±20%   GCM188R71C105MA64#   ±20%   GCM188R71C1684KA64#   ±20%   GCM188R70J225KE22#   ±20%   GCM188R70J				0.22µF	±10%	GCM188R71E224KA55#	
1.0μF ±10% GCM188R71E105KA64# ±20% GCM188R71E105MA64# ±20% GCM188R71E105MA64# ±20% GCM188R71E105MA64# ±20% GCM188L81C124KA37# ±20% GCM188L81C124MA37# ±20% GCM188L81C154MA37# ±20% GCM188L81C154MA37# ±20% GCM188L81C154MA37# ±20% GCM188L81C184MA37# ±20% GCM188L81C184MA37# ±20% GCM188L81C224KA37# ±20% GCM188L81C224MA37# ±20% GCM188L81C224MA37# ±20% GCM188R71C274MA37# ±20% GCM188R71C274MA37# ±20% GCM188R71C334KA37# ±20% GCM188R71C334MA37# ±20% GCM188R71C334MA37# ±20% GCM188R71C334MA37# ±20% GCM188R71C334MA37# ±20% GCM188R71C394MA55# ±20% GCM188R71C474MA55# ±20% GCM188R71C474MA55# ±20% GCM188R71C474MA55# ±20% GCM188R71C105MA64# ±20% GCM188R71C105MA64# ±20% GCM188R71C105MA64# ±20% GCM18R71C105MA64# ±20% GCM18R71C105MA64# ±20% GCM18R71C105MA64# ±20% GCM18R71C105MA64# ±20% GCM18R71C105MA64# ±20% GCM18R71C25ME22# ±20% GCM18R70J225ME22# ±20% GCM18R70J225ME22# ±20% GCM18R70J225ME22#					±20%	GCM188R71E224MA55#	
1.0μF ±10% GCM188R71E105KA64# ±20% GCM188R71E105MA64# 120% GCM188R71E105MA64# 120% GCM188L81C124KA37# 120% GCM188L81C124KA37# 120% GCM188L81C154KA37# 120% GCM188L81C154KA37# 120% GCM188L81C154MA37# 120% GCM188L81C184MA37# 120% GCM188L81C184MA37# 120% GCM188L81C224KA37# 120% GCM188L81C224KA37# 120% GCM188L81C224KA37# 120% GCM188R71C274MA37# 120% GCM188R71C274MA37# 120% GCM188R71C334KA37# 120% GCM188R71C334KA37# 120% GCM188R71C334KA37# 120% GCM188R71C334KA37# 120% GCM188R71C334KA37# 120% GCM188R71C394KA55# 120% GCM188R71C394KA55# 120% GCM188R71C394KA55# 120% GCM188R71C394KA55# 120% GCM188R71C394KA55# 120% GCM188R71C394KA55# 120% GCM188R71C394KA55# 120% GCM188R71C394KA55# 120% GCM188R71C394KA55# 120% GCM188R71C394KA55# 120% GCM188R71C394KA55# 120% GCM188R71C394KA55# 120% GCM188R71C394KA55# 120% GCM188R71C394KA64# 120% GCM188R71C394KA64# 120% GCM188R71C394KA64# 120% GCM188R71C394KA64# 120% GCM188R71C395KA64# 120% GCM188R70J225KE22# 120% GCM188R70J225KE22# 120% GCM188R70J225KE22# 120% GCM188R70J225KE22# 120% GCM188R70J225KE22# 120% GCM188R70J225KE22# 120% GCM188R70J225KE22# 120% GCM188R70J225KE22# 120% GCM188R70J225KE22# 120% GCM188R70J235KE22# 120% GCM188R70J325KE22# 120% GCM188R70J306ME36#				0.47µF	±10%	GCM188R71E474KA64#	
16Vdc   X8L   0.12μF   ±10%   GCM188L81C124KA37#   ±20%   GCM188L81C124MA37#   ±20%   GCM188L81C154KA37#   ±20%   GCM188L81C154KA37#   ±20%   GCM188L81C154MA37#   ±20%   GCM188L81C154MA37#   ±20%   GCM188L81C184MA37#   ±20%   GCM188L81C184MA37#   ±20%   GCM188L81C224KA37#   ±20%   GCM188L81C224KA37#   ±20%   GCM188R71C274KA37#   ±20%   GCM188R71C274KA37#   ±20%   GCM188R71C274MA37#   ±20%   GCM188R71C334KA37#   ±20%   GCM188R71C334KA37#   ±20%   GCM188R71C334MA37#   ±20%   GCM188R71C394KA55#   ±20%   GCM188R71C394MA55#   ±20%   GCM188R71C394MA55#   ±20%   GCM188R71C474KA55#   ±20%   GCM188R71C105KA64#   ±20%   GCM188R71C105KA64#   ±20%   GCM188R71C105KA64#   ±20%   GCM188R71C105KA64#   ±20%   GCM188R71C105KA64#   ±20%   GCM188R71C105KA64#   ±20%   GCM188R71C105KA64#   ±20%   GCM188R70J225KE22#   ±20%   GCM188R70J225KE22#   ±20%   GCM188R70J225KE22#   ±20%   GCM188R70J225KE22#   ±20%   GCM188R70J225KE22#   ±20%   GCM188R70J225KE22#   ±20%   GCM188R70J225KE22#   ±20%   GCM188R70J225KE22#   ±20%   GCM188R70J205ME36#					±20%	GCM188R71E474MA64#	
16Vdc X8L 0.12μF ±10% GCM188L81C124KA37# ±20% GCM188L81C124MA37# 0.15μF ±10% GCM188L81C154KA37# ±20% GCM188L81C154KA37# ±20% GCM188L81C184KA37# ±20% GCM188L81C184MA37# 0.22μF ±10% GCM188L81C224KA37# ±20% GCM188L81C224KA37# ±20% GCM188L81C224MA37# ±20% GCM188R71C274KA37# ±20% GCM188R71C274KA37# ±20% GCM188R71C34KA37# 0.33μF ±10% GCM188R71C334KA37# ±20% GCM188R71C334KA37# ±20% GCM188R71C394KA55# ±20% GCM188R71C394KA55# ±20% GCM188R71C394KA55# ±20% GCM188R71C394KA55# ±20% GCM188R71C394KA55# ±20% GCM188R71C394KA55# ±20% GCM188R71C394KA55# ±20% GCM188R71C394KA55# ±20% GCM188R71C105KA64# ±20% GCM188R71C105KA64# ±20% GCM188R71C105KA64# ±20% GCM188R71C105KA64# ±20% GCM188R71C105KA64# ±20% GCM188R71C105KA64# ±20% GCM188R70J225KE22# ±20% GCM188R70J225KE22# ±20% GCM188R70J225KE22# ±20% GCM188R70J225KE22# ±20% GCM188R70J225KE22# ±20% GCM188R70J225KE22# ±20% GCM188R70J225KE22# ±20% GCM188R70J2106ME36#				1.0µF	±10%	GCM188R71E105KA64#	
±20%   GCM188L81C124MA37#     0.15μF   ±10%   GCM188L81C154KA37#     ±20%   GCM188L81C154MA37#     0.18μF   ±10%   GCM188L81C184MA37#     ±20%   GCM188L81C184MA37#     ±20%   GCM188L81C224KA37#     ±20%   GCM188L81C224MA37#     ±20%   GCM188R71C274KA37#     ±20%   GCM188R71C274MA37#     ±20%   GCM188R71C334KA37#     ±20%   GCM188R71C334KA37#     ±20%   GCM188R71C334KA37#     ±20%   GCM188R71C334MA37#     0.39μF   ±10%   GCM188R71C394KA55#     ±20%   GCM188R71C394MA55#     ±20%   GCM188R71C394MA55#     ±20%   GCM188R71C474MA55#     ±20%   GCM188R71C105KA64#     ±20%   GCM188R71C105KA64#     ±20%   GCM188R71C105MA64#     ±20%   GCM188R71C105MA64#     ±20%   GCM188R71C105MA64#     ±20%   GCM188R70J225KE22#     ±20%   GCM188R70J225KE22#     ±20%   GCM188R70J215KE22#     ±20%   GCM188R70J225KE22#     ±20%   GCM188R70J2106ME36#					±20%	GCM188R71E105MA64#	
0.15μF ±10% GCM188L81C154KA37# ±20% GCM188L81C154MA37# 0.18μF ±10% GCM188L81C184KA37# ±20% GCM188L81C184MA37# ±20% GCM188L81C224KA37# ±20% GCM188L81C224KA37# ±20% GCM188L81C224MA37# ±20% GCM188R71C274KA37# ±20% GCM188R71C274KA37# ±20% GCM188R71C334KA37# ±20% GCM188R71C334KA37# ±20% GCM188R71C334KA37# ±20% GCM188R71C334MA37# 0.39μF ±10% GCM188R71C394KA55# ±20% GCM188R71C394KA55# ±20% GCM188R71C394MA55# ±20% GCM188R71C474KA55# ±20% GCM188R71C105KA64# ±20% GCM188R71C105KA64# ±20% GCM188R71C105MA64# ±20% GCM188R71C105MA64# ±20% GCM188C71C684KA64# ±20% GCM188C71C684MA64# ±20% GCM188C71C684MA64# ±20% GCM188R70J225KE22# ±20% GCM188R70J225KE22# ±20% GCM188R70J225KE22# ±20% GCM188R70J225ME22# 1.0mm 6.3Vdc X7T 10μF ±20% GCM188D70J106ME36#		16Vdc	X8L	0.12µF	±10%	GCM188L81C124KA37#	
±20% GCM188L81C154MA37#  120% GCM188L81C184KA37#  ±20% GCM188L81C184MA37#  120% GCM188L81C224KA37#  ±20% GCM188L81C224KA37#  ±20% GCM188L81C224MA37#  ±20% GCM188R71C274KA37#  ±20% GCM188R71C274MA37#  120% GCM188R71C334KA37#  ±20% GCM188R71C334KA37#  ±20% GCM188R71C394KA55#  ±20% GCM188R71C394MA55#  1.0μF ±10% GCM188R71C474KA55#  ±20% GCM188R71C474KA55#  ±20% GCM188R71C474MA55#  ±20% GCM188R71C105KA64#  ±20% GCM188R71C105KA64#  ±20% GCM188R71C105KA64#  ±20% GCM188R71C105KA64#  ±20% GCM188R71C105KA64#  ±20% GCM188R71C105KA64#  ±20% GCM188R71C105KA64#  ±20% GCM188R71C25KE22#  ±20% GCM188R70J225KE22#  ±20% GCM188R70J225KE22#  ±20% GCM188R70J225KE22#					±20%	GCM188L81C124MA37#	
0.18μF ±10% GCM188L81C184KA37# ±20% GCM188L81C184MA37# 0.22μF ±10% GCM188L81C224KA37# ±20% GCM188L81C224MA37# ±20% GCM188R71C274KA37# ±20% GCM188R71C274MA37# 0.33μF ±10% GCM188R71C334KA37# ±20% GCM188R71C334KA37# ±20% GCM188R71C334KA37# ±20% GCM188R71C394KA55# ±20% GCM188R71C394MA55# ±20% GCM188R71C394MA55# ±20% GCM188R71C474KA55# ±20% GCM188R71C474MA55# ±20% GCM188R71C105KA64# ±20% GCM188R71C105KA64# ±20% GCM188R71C105MA64# ±20% GCM188R71C105MA64# ±20% GCM188R71C684KA64# ±20% GCM188R71C684KA64# ±20% GCM188R70J225KE22# ±20% GCM188R70J225KE22# ±20% GCM188R70J225KE22# ±20% GCM188R70J2106ME36#				0.15µF	±10%	GCM188L81C154KA37#	
±20%   GCM188L81C184MA37#     0.22μF   ±10%   GCM188L81C224KA37#     ±20%   GCM188L81C224MA37#     ±20%   GCM188R71C274KA37#     ±20%   GCM188R71C274MA37#     ±20%   GCM188R71C334KA37#     ±20%   GCM188R71C334KA37#     ±20%   GCM188R71C334MA37#     ±20%   GCM188R71C394MA55#     ±20%   GCM188R71C394MA55#     ±20%   GCM188R71C394MA55#     ±20%   GCM188R71C474KA55#     ±20%   GCM188R71C474MA55#     ±20%   GCM188R71C105KA64#     ±20%   GCM188R71C105MA64#     ±20%   GCM188R71C105MA64#     ±20%   GCM188C71C684KA64#     ±20%   GCM188C71C684MA64#     ±20%   GCM188C71C684MA64#     ±20%   GCM188R70J225KE22#     ±20%   GCM188R70J225KE22#     ±20%   GCM188R70J225ME22#     ±20%   GCM188R70J2106ME36#					±20%	GCM188L81C154MA37#	
0.22μF				0.18µF	±10%	GCM188L81C184KA37#	
+20% GCM188L81C224MA37#  X7R 0.27μF ±10% GCM188R71C274KA37#  ±20% GCM188R71C274MA37#  0.33μF ±10% GCM188R71C334KA37#  ±20% GCM188R71C334MA37#  0.39μF ±10% GCM188R71C394KA55#  ±20% GCM188R71C394KA55#  ±20% GCM188R71C394MA55#  1.0μF ±10% GCM188R71C474MA55#  ±20% GCM188R71C474MA55#  1.0μF ±10% GCM188R71C105KA64#  ±20% GCM188R71C105MA64#  ±20% GCM188R71C105MA64#  ±20% GCM188R71C105MA64#  ±20% GCM188R71C105MA64#  ±20% GCM188R71C105MA64#  ±20% GCM188R71C105MA64#  ±20% GCM188R71C25KE22#  ±20% GCM188R70J225KE22#  ±20% GCM188R70J225ME22#					±20%	GCM188L81C184MA37#	
X7R   0.27μF   ±10%   GCM188R71C274KA37#   ±20%   GCM188R71C274MA37#   0.33μF   ±10%   GCM188R71C334KA37#   ±20%   GCM188R71C334MA37#   ±20%   GCM188R71C394MA55#   ±20%   GCM188R71C394MA55#   ±20%   GCM188R71C394MA55#   ±20%   GCM188R71C474KA55#   ±20%   GCM188R71C474MA55#   ±20%   GCM188R71C105KA64#   ±20%   GCM188R71C105MA64#   ±20%   GCM188R71C105MA64#   ±20%   GCM188C71C684KA64#   ±20%   GCM188C71C684MA64#   ±20%   GCM188R70J225KE22#   ±20%   GCM188R70J225KE22#   ±20%   GCM188R70J225ME22#   ±20%   GCM188R70J2106ME36#				0.22µF	±10%	GCM188L81C224KA37#	
±20% GCM188R71C274MA37#  0.33μF ±10% GCM188R71C334KA37#  ±20% GCM188R71C334MA37#  0.39μF ±10% GCM188R71C394KA55#  ±20% GCM188R71C394MA55#  ±20% GCM188R71C474KA55#  ±20% GCM188R71C474MA55#  ±20% GCM188R71C105KA64#  ±20% GCM188R71C105KA64#  ±20% GCM188R71C105MA64#  ±20% GCM188C71C684KA64#  ±20% GCM188C71C684KA64#  ±20% GCM188C71C684MA64#  ±20% GCM188R70J225KE22#  ±20% GCM188R70J225KE22#  ±20% GCM188R70J225ME22#					±20%	GCM188L81C224MA37#	
0.33μF ±10% GCM188R71C334KA37# ±20% GCM188R71C334MA37# 0.39μF ±10% GCM188R71C394KA55# ±20% GCM188R71C394MA55# ±20% GCM188R71C474KA55# ±20% GCM188R71C474KA55# ±20% GCM188R71C474MA55# 1.0μF ±10% GCM188R71C105KA64# ±20% GCM188R71C105MA64# ±20% GCM188C71C684KA64# ±20% GCM188C71C684MA64# 420% GCM188C71C684MA64# ±20% GCM188R70J225KE22# ±20% GCM188R70J225KE22# ±20% GCM188R70J225ME22# 1.0mm 6.3Vdc X7T 10μF ±20% GCM188D70J106ME36#			X7R	0.27µF	±10%	GCM188R71C274KA37#	
+20% GCM188R71C334MA37#  0.39μF ±10% GCM188R71C394KA55#  ±20% GCM188R71C394MA55#  0.47μF ±10% GCM188R71C474KA55#  ±20% GCM188R71C474MA55#  1.0μF ±10% GCM188R71C105KA64#  ±20% GCM188R71C105KA64#  ±20% GCM188R71C105MA64#  ±20% GCM188C71C684KA64#  ±20% GCM188C71C684MA64#  ±20% GCM188R70J225KE22#  ±20% GCM188R70J225KE22#  ±20% GCM188R70J225ME22#					±20%	GCM188R71C274MA37#	
0.39μF ±10% GCM188R71C394KA55# ±20% GCM188R71C394MA55# 0.47μF ±10% GCM188R71C474KA55# ±20% GCM188R71C474MA55# 1.0μF ±10% GCM188R71C105KA64# ±20% GCM188R71C105MA64# 20% GCM188C71C684KA64# ±20% GCM188C71C684KA64# ±20% GCM188C71C684MA64# ±20% GCM188R70J225KE22# ±20% GCM188R70J225ME22#				0.33µF	±10%	GCM188R71C334KA37#	
±20% GCM188R71C394MA55#  0.47μF ±10% GCM188R71C474KA55#  ±20% GCM188R71C474MA55#  1.0μF ±10% GCM188R71C105KA64#  ±20% GCM188R71C105MA64#  ±20% GCM188C71C684KA64#  ±20% GCM188C71C684KA64#  ±20% GCM188C71C684MA64#  ±20% GCM188R70J225KE22#  ±20% GCM188R70J225KE22#  ±20% GCM188R70J225ME22#					±20%	GCM188R71C334MA37#	
0.47μF ±10% GCM188R71C474KA55# ±20% GCM188R71C474MA55#  1.0μF ±10% GCM188R71C105KA64# ±20% GCM188R71C105MA64# ±20% GCM188R71C105MA64# ±20% GCM188C71C684KA64# ±20% GCM188C71C684MA64# ±20% GCM188C71C684MA64# ±20% GCM188R70J225KE22# ±20% GCM188R70J225ME22# ±20% GCM188R70J225ME22# 1.0mm 6.3Vdc X7T 10μF ±20% GCM188D70J106ME36#				0.39µF	±10%	GCM188R71C394KA55#	
±20% GCM188R71C474MA55#  1.0μF ±10% GCM188R71C105KA64#  ±20% GCM188R71C105MA64#  ±20% GCM188C71C684KA64#  ±20% GCM188C71C684KA64#  ±20% GCM188C71C684MA64#  ±20% GCM188R70J225KE22#  ±20% GCM188R70J225ME22#  ±20% GCM188R70J225ME22#					±20%	GCM188R71C394MA55#	
1.0μF ±10% GCM188R71C105KA64# ±20% GCM188R71C105MA64# X7S 0.68μF ±10% GCM188C71C684KA64# ±20% GCM188C71C684MA64# ±20% GCM188C71C684MA64# ±20% GCM188R70J225KE22# ±20% GCM188R70J225ME22# ±20% GCM188R70J225ME22#				0.47µF	±10%	GCM188R71C474KA55#	
±20% GCM188R71C105MA64#  X7S 0.68μF ±10% GCM188C71C684KA64#  ±20% GCM188C71C684MA64#  6.3Vdc X7R 2.2μF ±10% GCM188R70J225KE22#  ±20% GCM188R70J225ME22#  1.0mm 6.3Vdc X7T 10μF ±20% GCM188D70J106ME36#					±20%	GCM188R71C474MA55#	
X7S   0.68μF   ±10%   GCM188C71C684KA64#   ±20%   GCM188C71C684MA64#				1.0µF	±10%	GCM188R71C105KA64#	
±20% GCM188C71C684MA64# 6.3Vdc X7R 2.2μF ±10% GCM188R70J225KE22# ±20% GCM188R70J225ME22# 1.0mm 6.3Vdc X7T 10μF ±20% GCM188D70J106ME36#					±20%	GCM188R71C105MA64#	
6.3Vdc X7R 2.2μF ±10% GCM188R70J225KE22# ±20% GCM188R70J225ME22# 1.0mm 6.3Vdc X7T 10μF ±20% GCM188D70J106ME36#			X7S	0.68µF	±10%	GCM188C71C684KA64#	
±20% GCM188R70J225ME22#  1.0mm 6.3Vdc X7T 10μF ±20% GCM188D70J106ME36#					±20%	GCM188C71C684MA64#	
1.0mm 6.3Vdc X7T 10μF ±20% <b>GCM188D70J106ME36#</b>		6.3Vdc	X7R	2.2µF	±10%	GCM188R70J225KE22#	
					±20%	GCM188R70J225ME22#	
4Vdc X7T 10μF ±20% <b>GCM188D70G106ME36#</b>	1.0mm	6.3Vdc	X7T	10µF	±20%	GCM188D70J106ME36#	
		4Vdc	X7T	10μF	±20%	GCM188D70G106ME36#	

#### 2.0×1.25mm

T max.	Rated Voltage	TC Code	Сар.	Tol.	Part Number	
0.95mm	100Vdc	X8R	10000pF	±10%	GCM219R92A103KA37#	
				±20%	GCM219R92A103MA37#	
			15000pF	±10%	GCM219R92A153KA37#	
				±20%	GCM219R92A153MA37#	
			22000pF	±10%	GCM219R92A223KA37#	
				±20%	GCM219R92A223MA37#	
		X7R	27000pF	±10%	GCM219R72A273KA37#	
				±20%	GCM219R72A273MA37#	
			33000pF	±10%	GCM219R72A333KA37#	
				±20%	GCM219R72A333MA37#	
			39000pF	±10%	GCM219R72A393KA37#	
				±20%	GCM219R72A393MA37#	

Part number # indicates the package specification code.

Total	(→ 2.0)	1.25m	m)			
15000pF   10%   15000pF   10%   15000pF   10%   15000pF   10%   15000pF   10%   15000pF   10%   15000pF   10%   15000pF   110%   15000pF   110%   15000pF   110%   15000pF   110%   15000pF   1500	T max.			Cap.	Tol.	Part Number
15000pF   110%   GCM219R91H153KA37#   22000pF   110%   GCM219R91H223KA37#   22000pF   110%   GCM219R91H223KA37#   120%   GCM219R91H223KA37#   120%   GCM219R71H334KA55#   120%   GCM219R71H334KA55#   120%   GCM219R71H334KA55#   120%   GCM219R71H334MA55#   120%   GCM219R71H334MA55#   120%   GCM219R71H334MA55#   120%   GCM219R71H334MA55#   120%   GCM219R71H334MA55#   120%   GCM219R71H334MA55#   120%   GCM219R71H334MA55#   120%   GCM219R71H334MA55#   120%   GCM219R71H334MA37#   120%   GCM219R92A333KA37#   120%   GCM219R92A333KA37#   120%   GCM219R92A333KA37#   120%   GCM219R92A473KA37#   120%   GCM219R92A473KA37#   120%   GCM219R72A273KA37#   120%   GCM219R72A273KA37#   120%   GCM219R72A333KA37#   120%   GCM219R72A333KA37#   120%   GCM219R72A333KA37#   120%   GCM219R72A333KA37#   120%   GCM219R72A333KA37#   120%   GCM219R72A333KA37#   120%   GCM219R72A333KA37#   120%   GCM219R72A333KA37#   120%   GCM219R72A333KA37#   120%   GCM219R72A333KA37#   120%   GCM219R72A333KA37#   120%   GCM219R72A333KA37#   120%   GCM219R72A683KA37#   120%   GCM219R72A683KA37#   120%   GCM219R72A683KA37#   120%   GCM219R72A683MA37#   120%   GCM219R72A683MA37#   120%   GCM219R72A683MA37#   120%   GCM219R72A104KA37#   120%   GCM219R17A104KA37#   120%   GCM219R11134KA37#   120%   GCM219R11134KA37#   120%   GCM219R911134KA37#   120%   GCM219R9111334KA36#   120%   GCM219R911134KA37#   120%   GCM219R911134KA37#   120%   GCM219R911134KA37#   120%	0.95mm	50Vdc	X8R	10000pF		
1-20%   GCM219R91H153MA37#   220000F   1:10%   GCM219R91H223MA37#   2:0%   GCM219R71H334KA55#   2:0%   GCM219R71H334KA55#   2:0%   GCM219R71H334KA55#   2:0%   GCM219R71E474KA55#   2:0%   GCM219R71E474KA55#   2:0%   GCM219R71E474KA55#   2:0%   GCM219R71E474KA55#   2:0%   GCM219R71E474KA55#   2:0%   GCM219R71E474KA55#   2:0%   GCM219R71C105KA37#   2:0%   GCM219R92A333KA37#   2:0%   GCM219R92A333KA37#   2:0%   GCM219R92A333KA37#   2:0%   GCM219R92A333KA37#   2:0%   GCM219R92A333KA37#   2:0%   GCM219R92A333KA37#   2:0%   GCM219R92A333KA37#   2:0%   GCM219R72A333KA37#   2:0%   GCM219R72A333KA37#   2:0%   GCM219R72A333KA37#   2:0%   GCM219R72A333KA37#   2:0%   GCM219R72A333KA37#   2:0%   GCM219R72A333KA37#   2:0%   GCM219R72A333KA37#   2:0%   GCM219R72A473KA37#   2:0%   GCM219R72A473KA37#   2:0%   GCM219R72A473KA37#   2:0%   GCM219R72A473KA37#   2:0%   GCM219R72A473KA37#   2:0%   GCM219R72A473KA37#   2:0%   GCM219R72A473KA37#   2:0%   GCM219R72A4633KA37#   2:0%   GCM219R72A4633KA37#   2:0%   GCM219R72A4633KA37#   2:0%   GCM219R72A4633KA37#   2:0%   GCM219R72A4633KA37#   2:0%   GCM219R72A4633KA37#   2:0%   GCM219R72A4633KA37#   2:0%   GCM219R72A4633KA37#   2:0%   GCM219R72A4633KA37#   2:0%   GCM219R72A4633KA37#   2:0%   GCM219R72A4633KA37#   2:0%   GCM219R114A4A37#   2:0%   GCM219R114A4A37#   2:0%   GCM219R114A4A37#   2:0%   GCM219R114A4A37#   2:0%   GCM219R114A4A37#   2:0%   GCM219R114A34A56#   2:0%   GCM219R114A34A56#   2:0%   GCM219R114A34A56#   2:0%   GCM219R114A34A56#   2:0%   GCM219R114A3A37#   2:0%					±20%	GCM219R91H103MA37#
22000pF   ±10%   GCM219R91H223KA37#   ±20%   GCM219R71H334KA55#   ±20%   GCM219R71H334KA55#   ±20%   GCM219R71H334KA55#   ±20%   GCM219R71E474KA55#   ±20%   GCM219R71E474KA55#   ±20%   GCM219R71E474KA55#   ±20%   GCM219R71E105KA37#   ±20%   GCM219R92A333KA37#   ±20%   GCM219R92A333KA37#   ±20%   GCM219R92A333KA37#   ±20%   GCM219R92A333KA37#   ±20%   GCM219R92A333KA37#   ±20%   GCM219R92A333KA37#   ±20%   GCM219R92A333KA37#   ±20%   GCM219R92A333KA37#   ±20%   GCM219R92A333KA37#   ±20%   GCM219R92A333KA37#   ±20%   GCM219R92A333KA37#   ±20%   GCM219R72A333KA37#   ±20%   GCM219R72A333KA37#   ±20%   GCM219R72A333KA37#   ±20%   GCM219R72A333KA37#   ±20%   GCM219R72A333KA37#   ±20%   GCM219R72A333KA37#   ±20%   GCM219R72A563MA37#   ±20%   GCM219R72A563MA37#   ±20%   GCM219R72A563MA37#   ±20%   GCM219R72A563MA37#   ±20%   GCM219R72A563MA37#   ±20%   GCM219R72A563MA37#   ±20%   GCM219R72A563MA37#   ±20%   GCM219R72A563MA37#   ±20%   GCM219R72A563MA37#   ±20%   GCM219R72A563MA37#   ±20%   GCM219R72A563MA37#   ±20%   GCM219R72A563MA37#   ±20%   GCM219R72A563MA37#   ±20%   GCM219R72A563MA37#   ±20%   GCM219R72A563MA37#   ±20%   GCM219R72A631MA37#   ±20%   GCM219R12A104MA37#   ±20%   GCM219R12A104MA37#   ±20%   GCM219R12A104MA37#   ±20%   GCM219R11154KA37#   ±20%   GCM219R11154KA37#   ±20%   GCM219R11134MA37#   ±20%   GCM219R11134MA37#   ±20%   GCM219R11134MA37#   ±20%   GCM219R11133MA356#   ±20%   GCM219R11133MA356#   ±20%   GCM219R11133MA356#   ±20%   GCM219R11133MA356#   ±20%   GCM219R11133MA37#   ±20%   GCM219R11133MA37#   ±20%   GCM219R111473KA37#   ±20%   GCM219R111473KA37#   ±20%   GCM219R111473KA37#   ±20%   GCM219R111473KA37#   ±20%   GCM219R111473KA37#   ±20%   GCM219R111473KA37#   ±20%   GCM219R111474KA37#   ±20%   GCM219R111474KA37#   ±20%   GCM219R111473KA37#   ±20%   GCM219R111474KA37#   ±20%   GCM219R111474KA37#   ±20%   GCM219R111474KA37#   ±20%   GCM219R111474KA37#   ±20%   GCM219R111474KA37#   ±20%   GCM219R111474KA37#   ±20%   GCM219R111474KA37#   ±20%   GCM219R111474KA37#   ±20%   GCM219R111474KA37				15000pF	±10%	GCM219R91H153KA37#
20%   GCM219R91H223MA37#   20%   GCM219R71H334KA55#   20%   GCM219R71H334KA55#   20%   GCM219R71H334KA55#   20%   GCM219R71H334KA55#   20%   GCM219R71H2474KA55#   20%   GCM219R71C105KA37#   20%   GCM219R71C105KA37#   20%   GCM219R92A333KA37#   20%   GCM219R92A333KA37#   20%   GCM219R92A333KA37#   20%   GCM219R92A333KA37#   20%   GCM219R92A333KA37#   20%   GCM219R92A333KA37#   20%   GCM219R92A333KA37#   20%   GCM219R92A333KA37#   20%   GCM219R72A273KA37#   20%   GCM219R72A273KA37#   20%   GCM219R72A33MA37#   20%   GCM219R72A33MA37#   20%   GCM219R72A33MA37#   20%   GCM219R72A33MA37#   20%   GCM219R72A33MA37#   20%   GCM219R72A33MA37#   20%   GCM219R72A33MA37#   20%   GCM219R72A33MA37#   20%   GCM219R72A33MA37#   20%   GCM219R72A633KA37#   20%   GCM219R72A633KA37#   20%   GCM219R72A633KA37#   20%   GCM219R72A633KA37#   20%   GCM219R72A633KA37#   20%   GCM219R72A633KA37#   20%   GCM219R72A633KA37#   20%   GCM219R72A633KA37#   20%   GCM219R72A633KA37#   20%   GCM219R72A633KA37#   20%   GCM219R72A633KA37#   20%   GCM219R72A633KA37#   20%   GCM219R72A633KA37#   20%   GCM219R72A633KA37#   20%   GCM219R72A633KA37#   20%   GCM219R72A633KA37#   20%   GCM219R72A633KA37#   20%   GCM219R72A633KA37#   20%   GCM219R72A633KA37#   20%   GCM219R12AMA37#   20%   GCM219R114AMA37#   20%   GCM21					±20%	GCM219R91H153MA37#
X7R   0.33μF   ±10%   GCM219R71H334KA55#   ±20%   GCM219R71E474KA55#   ±20%   GCM219R71E474KA55#   ±20%   GCM219R71E474KA55#   ±20%   GCM219R71E474KA55#   ±20%   GCM219R71E474KA55#   ±20%   GCM219R71E474KA55#   ±20%   GCM219R71E474KA55#   ±20%   GCM219R71C105KA37#   ±20%   GCM219R92A333KA37#   ±20%   GCM219R92A333KA37#   ±20%   GCM219R92A473KA37#   ±20%   GCM219R92A473KA37#   ±20%   GCM219R92A473KA37#   ±20%   GCM219R72A333KA37#   ±20%   GCM219R72A333KA37#   ±20%   GCM219R72A333KA37#   ±20%   GCM219R72A333KA37#   ±20%   GCM219R72A333KA37#   ±20%   GCM219R72A333KA37#   ±20%   GCM219R72A333KA37#   ±20%   GCM219R72A333KA37#   ±20%   GCM219R72A333KA37#   ±20%   GCM219R72A333KA37#   ±20%   GCM219R72A333KA37#   ±20%   GCM219R72A563KA37#   ±20%   GCM219R72A563KA37#   ±20%   GCM219R72A633KA37#   ±20%   GCM219R72A633KA37#   ±20%   GCM219R72A633KA37#   ±20%   GCM219R72A633KA37#   ±20%   GCM219R72A633KA37#   ±20%   GCM219R72A633KA37#   ±20%   GCM219R72A633KA37#   ±20%   GCM219R72A633KA37#   ±20%   GCM219R72A633KA37#   ±20%   GCM219R72A633KA37#   ±20%   GCM219R72A633KA37#   ±20%   GCM219R72A633KA37#   ±20%   GCM219R72A633KA37#   ±20%   GCM219R72A633KA37#   ±20%   GCM219R72A633KA37#   ±20%   GCM219R72A633KA37#   ±20%   GCM219R72A633KA37#   ±20%   GCM219R114AK37#   ±20%   GCM219R114AK37#   ±20%   GCM219R114AK37#   ±20%   GCM219R91H333KA37#   ±20%   GCM219R91H333K				22000pF	±10%	GCM219R91H223KA37#
1-20%   CM219R71H334MA55#   20%   CM219R71E474KA55#   20%   CM219R71E105KA37#   20%   CM219R71C105KA37#   20%   CM219R71C105KA37#   20%   CM219R71C105KA37#   20%   CM219R92A333KA37#   20%   CM219R92A333KA37#   20%   CM219R92A333KA37#   20%   CM219R92A333KA37#   20%   CM219R92A333KA37#   20%   CM219R92A333KA37#   20%   CM219R92A333KA37#   20%   CM219R92A333KA37#   20%   CM219R92A333KA37#   20%   CM219R92A333KA37#   20%   CM219R72A273KA37#   20%   CM219R72A333KA37#   20%   CM219R72A333KA37#   20%   CM219R72A333KA37#   20%   CM219R72A333KA37#   20%   CM219R72A333KA37#   20%   CM219R72A333KA37#   20%   CM219R72A333KA37#   20%   CM219R72A563KA37#   20%   CM219R72A633KA37#   20%   CM219R12A637#   20%   CM219R12A637#   20%   CM219R12A637#   20%   CM219R11A334KA56#   20%   CM219R11A334KA56#   20%   CM219R11A334KA56#   20%   CM219R11A334KA56#   20%   CM219R11A333KA37#   20%   CM219R11A333KA37#   20%   CM219R11A333KA37#   20%   CM219R11A333KA37#   20%   CM219R11A333KA37#   20%   CM219R11A333KA37#   20%   CM219R11A333KA37#   20%   CM219R11A333KA37#   20%   CM219R11A333KA37#   20%   CM219R11A333KA37#   20%   CM219R11A333KA37#   20%   CM219R11A333KA37#   20%   CM219R11A333KA37#   20%   CM219R11A333KA37#   20%   CM219R11A333KA37#   20%   CM219R11A333KA37#   20%   CM219R11A333KA37#   20%   CM219R11A333KA37#   20%   CM219R11A333KA37#   20%   CM219R11A33AA37#   20%   CM219R11A33AA37#   20%   CM219R11A33AA37#   20%   CM219R11A33AA37#   20%   CM219R11A33AA37#   20%   CM219R11A33AA37#   20%   CM219R11A33AA37#   20%   CM219R11A33AA37#   20%   CM					±20%	GCM219R91H223MA37#
25Vdc   X7R   0.47μF   ±10%   GCM219R71E474KA55#   ±20%   GCM219R71C105KA37#   ±20%   GCM219R71C105KA37#   ±20%   GCM219R71C105KA37#   ±20%   GCM219R71C105KA37#   ±20%   GCM219R92A33KA37#   ±20%   GCM219R92A473KA37#   ±20%   GCM219R92A473KA37#   ±20%   GCM219R92A473KA37#   ±20%   GCM219R72A273KA37#   ±20%   GCM219R72A333KA37#   ±20%   GCM219R72A333KA37#   ±20%   GCM219R72A333KA37#   ±20%   GCM219R72A333KA37#   ±20%   GCM219R72A333KA37#   ±20%   GCM219R72A333KA37#   ±20%   GCM219R72A333KA37#   ±20%   GCM219R72A333KA37#   ±20%   GCM219R72A563MA37#   ±20%   GCM219R72A563MA37#   ±20%   GCM219R72A563MA37#   ±20%   GCM219R72A563MA37#   ±20%   GCM219R72A683KA37#   ±20%   GCM219R72A683KA37#   ±20%   GCM219R72A683KA37#   ±20%   GCM219R72A683KA37#   ±20%   GCM219R72A683KA37#   ±20%   GCM219R72A683KA37#   ±20%   GCM219R72A683KA37#   ±20%   GCM219R72A683KA37#   ±20%   GCM219R72A104KA37#   ±20%   GCM219R72A104KA37#   ±20%   GCM219R72A104KA37#   ±20%   GCM219R72A104KA37#   ±20%   GCM219R72A104KA37#   ±20%   GCM219R31144KA37#   ±20%   GCM219R31144KA37#   ±20%   GCM219R31143KA37#   ±20%   GCM219R31143KA37#   ±20%   GCM219R311434KA37#   ±20%   GCM219R311434KA37#   ±20%   GCM219R311434KA37#   ±20%   GCM219R3133AA37#   ±20%   GCM219R3133AA37#   ±20%   GCM219R3133AA37#   ±20%   GCM219R3133AA37#   ±20%   GCM219R3133AA37#   ±20%   GCM219R3133AA37#   ±20%   GCM219R3133AA37#   ±20%   GCM219R31433AA356#   ±20%   GCM219R31433AA356#   ±20%   GCM219R31433AA356#   ±20%   GCM219R31433AA356#   ±20%   GCM219R31433AA37#   ±20%   GCM219R31433AA37#   ±20%   GCM219R31433AA37#   ±20%   GCM219R31433AA37#   ±20%   GCM219R31433AA37#   ±20%   GCM219R31433AA37#   ±20%   GCM219R3143AA337#   ±20%   GCM219R3143AA337#   ±20%   GCM219R3143AA337#   ±20%   GCM219R3143AA337#   ±20%   GCM219R3143AA337#   ±20%   GCM219R3143AA337#   ±20%   GCM219R3143AA337#   ±20%   GCM219R3143AA337#   ±20%   GCM219R3143AA337#   ±20%   GCM219R3143AA337#   ±20%   GCM219R3143AA337#   ±20%   GCM219R3143AA337#   ±20%   GCM219R3143AA337#   ±20%   GCM219R3143AA337#   ±20%   GCM219R3			X7R	0.33µF	±10%	GCM219R71H334KA55#
16Vdc   X7R   1.0µF   ±10%   GCM219R71C105KA37#   ±20%   GCM219R71C105KA37#   ±20%   GCM219R71C105KA37#   ±20%   GCM219R92A333KA37#   ±20%   GCM21BR92A333KA37#   ±20%   GCM21BR92A333KA37#   ±20%   GCM21BR92A473KA37#   ±20%   GCM21BR92A473KA37#   ±20%   GCM21BR72A273KA37#   ±20%   GCM21BR72A273KA37#   ±20%   GCM21BR72A333KA37#   ±20%   GCM21BR72A333KA37#   ±20%   GCM21BR72A333KA37#   ±20%   GCM21BR72A333KA37#   ±20%   GCM21BR72A333KA37#   ±20%   GCM21BR72A333KA37#   ±20%   GCM21BR72A333KA37#   ±20%   GCM21BR72A473KA37#   ±20%   GCM21BR72A633KA37#   ±20%   GCM21BR72A633KA37#   ±20%   GCM21BR72A633KA37#   ±20%   GCM21BR72A633KA37#   ±20%   GCM21BR72A633KA37#   ±20%   GCM21BR72A633KA37#   ±20%   GCM21BR72A633KA37#   ±20%   GCM21BR72A633KA37#   ±20%   GCM21BR72A04337#   ±20%   GCM21BR72A04337#   ±20%   GCM21BR72A04337#   ±20%   GCM21BR31H124KA37#   ±20%   GCM21BL81H124KA37#   ±20%   GCM21BL81H124KA37#   ±20%   GCM21BL81H134KA37#   ±20%   GCM21BL81H134KA37#   ±20%   GCM21BL81H334KA56#   ±20%   GCM21BL81H334KA56#   ±20%   GCM21BL81H333KA37#   ±20%   GCM21BL81H333KA37#   ±20%   GCM21BL81H333KA37#   ±20%   GCM21BL81H333KA37#   ±20%   GCM21BL81H333KA37#   ±20%   GCM21BR91H33AA37#   ±20%   GCM21BR91H34KA37#   ±20%   GCM21BR91H34KA37#   ±20%   GCM21BR9					±20%	GCM219R71H334MA55#
16Vdc X7R 1.0µF		25Vdc	X7R	0.47µF	±10%	GCM219R71E474KA55#
1.4mm					±20%	GCM219R71E474MA55#
1.4mm		16Vdc	X7R	1.0µF	±10%	GCM219R71C105KA37#
### ### ##############################					±20%	GCM219R71C105MA37#
A7000pf	1.4mm	100Vdc	X8R	33000pF	±10%	GCM21BR92A333KA37#
220%   GCM21BR92A473MA37#   220%   GCM21BR72A273KA37#   220%   GCM21BR72A333KA37#   220%   GCM21BR72A333KA37#   220%   GCM21BR72A333KA37#   220%   GCM21BR72A333KA37#   220%   GCM21BR72A333KA37#   220%   GCM21BR72A333KA37#   220%   GCM21BR72A333KA37#   220%   GCM21BR72A333KA37#   220%   GCM21BR72A333KA37#   220%   GCM21BR72A563KA37#   220%   GCM21BR72A563KA37#   220%   GCM21BR72A683KA37#   220%   GCM21BR72A683KA37#   220%   GCM21BR72A683KA37#   220%   GCM21BR72A683KA37#   220%   GCM21BR72A683KA37#   220%   GCM21BR72A104KA37#   220%   GCM21BR72A104KA37#   220%   GCM21BR72A104KA37#   220%   GCM21BR3H1124KA37#   220%   GCM21BR3H1124KA37#   220%   GCM21BR3H1124KA37#   220%   GCM21BR3H1184KA37#   220%   GCM21BR3H1184KA37#   220%   GCM21BR3H184KA37#   220%   GCM21BR3H184KA37#   220%   GCM21BR3H184KA37#   220%   GCM21BR3H334KA56#   220%   GCM21BR3H334KA56#   220%   GCM21BR3H334KA56#   220%   GCM21BR3H333KA37#   220%   GCM21BR3H334KA337#   220%   GCM21BR3H334KA337#   220%   GCM21BR3H3					±20%	GCM21BR92A333MA37#
X7R   27000pF   ±10%   GCM21BR72A273KA37#   ±20%   GCM21BR72A33KA37#   ±20%   GCM21BR72A33KA37#   ±20%   GCM21BR72A33KA37#   ±20%   GCM21BR72A33MA37#   ±20%   GCM21BR72A33MA37#   ±20%   GCM21BR72A33MA37#   ±20%   GCM21BR72A33MA37#   ±20%   GCM21BR72A33MA37#   ±20%   GCM21BR72A563KA37#   ±20%   GCM21BR72A563KA37#   ±20%   GCM21BR72A563KA37#   ±20%   GCM21BR72A683KA37#   ±20%   GCM21BR72A683KA37#   ±20%   GCM21BR72A683KA37#   ±20%   GCM21BR72A683KA37#   ±20%   GCM21BR72A683KA37#   ±20%   GCM21BR72A104KA37#   ±20%   GCM21BR72A104KA37#   ±20%   GCM21BL81H24KA37#   ±20%   GCM21BL81H24KA37#   ±20%   GCM21BL81H24KA37#   ±20%   GCM21BL81H34KA37#   ±20%   GCM21BL81H34KA37#   ±20%   GCM21BL81H34KA37#   ±20%   GCM21BL81H34KA37#   ±20%   GCM21BL81H34KA37#   ±20%   GCM21BL81H34KA37#   ±20%   GCM21BL81H34KA37#   ±20%   GCM21BL81H34KA37#   ±20%   GCM21BL81H33AKA56#   ±20%   GCM21BL81H33AKA56#   ±20%   GCM21BL81H33AKA56#   ±20%   GCM21BR91H33AKA37#   ±20%   GCM21BR91H33AKA37#   ±20%   GCM21BR91H33AKA37#   ±20%   GCM21BR91H33AKA37#   ±20%   GCM21BR91H33AKA37#   ±20%   GCM21BR91H33AKA37#   ±20%   GCM21BR91H33AKA37#   ±20%   GCM21BR91H33AKA37#   ±20%   GCM21BR91H33AKA37#   ±20%   GCM21BR91H33AKA37#   ±20%   GCM21BR91H33AKA37#   ±20%   GCM21BR91H33AKA37#   ±20%   GCM21BR91H04KA37#   ±20				47000pF	±10%	GCM21BR92A473KA37#
### 10%   GCM21BR72A273MA37#   ### 33000pF   ±10%   GCM21BR72A333KA37#   ### 20%   GCM21BR72A333MA37#   ### 39000pF   ±10%   GCM21BR72A393MA37#   ### 47000pF   ±10%   GCM21BR72A473KA37#   ### 20%   GCM21BR72A473KA37#   ### 20%   GCM21BR72A473KA37#   ### 20%   GCM21BR72A563KA37#   ### 20%   GCM21BR72A563KA37#   ### 20%   GCM21BR72A563MA37#   ### 82000pF   ±10%   GCM21BR72A683MA37#   ### 20%   GCM21BR72A823KA37#   ### 20%   GCM21BR72A823KA37#   ### 20%   GCM21BR72A823KA37#   ### 20%   GCM21BR72A104KA37#   ### 20%   GCM21BR72A104KA37#   ### 20%   GCM21BL81H124KA37#   ### 20%   GCM21BL81H124KA37#   ### 20%   GCM21BL81H124KA37#   ### 20%   GCM21BL81H154MA37#   ### 0.15µF   ±10%   GCM21BL81H184KA37#   ### 20%   GCM21BL81H184KA37#   ### 20%   GCM21BL81H184KA37#   ### 20%   GCM21BL81H184MA37#   ### 0.33µF   ±10%   GCM21BL81H334KA56#   ### 20%   GCM21BL81H334KA56#   ### 20%   GCM21BR91H333KA37#   ### 20%   GCM21BR91H333KA37#   ### 20%   GCM21BR91H473KA37#					±20%	GCM21BR92A473MA37#
33000pF   ±10%   GCM21BR72A333KA37#   ±20%   GCM21BR72A33MA37#   ±20%   GCM21BR72A39MA37#   ±20%   GCM21BR72A473KA37#   ±20%   GCM21BR72A473KA37#   ±20%   GCM21BR72A563KA37#   ±20%   GCM21BR72A563KA37#   ±20%   GCM21BR72A563KA37#   ±20%   GCM21BR72A683KA37#   ±20%   GCM21BR72A683KA37#   ±20%   GCM21BR72A683KA37#   ±20%   GCM21BR72A823KA37#   ±20%   GCM21BR72A823KA37#   ±20%   GCM21BR72A823KA37#   ±20%   GCM21BR72A104KA37#   ±20%   GCM21BR72A104KA37#   ±20%   GCM21BL81H124KA37#   ±20%   GCM21BL81H124KA37#   ±20%   GCM21BL81H154KA37#   ±20%   GCM21BL81H154KA37#   ±20%   GCM21BL81H184KA37#   ±20%   GCM21BL81H184KA37#   ±20%   GCM21BL81H184KA37#   ±20%   GCM21BL81H184KA37#   ±20%   GCM21BL81H334KA56#   ±20%   GCM21BL81H334KA56#   ±20%   GCM21BL81H334KA56#   ±20%   GCM21BR91H333MA37#   ±20%   GCM21BR91H333MA37#   ±20%   GCM21BR91H473KA37#   ±20%   GCM21BR91H473KA37#   ±20%   GCM21BR91H473MA37#   ±20%   GCM21BR91H473MA37#   ±20%   GCM21BR91H473MA37#   ±20%   GCM21BR91H483MA37#   ±20%   GCM21BR91H483MA37#   ±20%   GCM21BR91H483MA37#   ±20%   GCM21BR91H483MA37#   ±20%   GCM21BR91H083MA37#   ±20%   GCM21BR91H083MA37#   ±20%   GCM21BR91H04KA37#   ±20%   GCM21BR91H04KA37#   ±20%   GCM21BR91H104KA			X7R	27000pF	±10%	GCM21BR72A273KA37#
### 10%   CM21BR72A333MA37#   ### 39000pF   ±10%   GCM21BR72A393KA37#   ### 47000pF   ±10%   GCM21BR72A473KA37#   ### 20%   GCM21BR72A473KA37#   ### 20%   GCM21BR72A473KA37#   ### 20%   GCM21BR72A563KA37#   ### 20%   GCM21BR72A563KA37#   ### 20%   GCM21BR72A663KA37#   ### 20%   GCM21BR72A663KA37#   ### 20%   GCM21BR72A663KA37#   ### 20%   GCM21BR72A663KA37#   ### 20%   GCM21BR72A683KA37#   ### 20%   GCM21BR72A823KA37#   ### 20%   GCM21BR72A823KA37#   ### 20%   GCM21BR72A104KA37#   ### 20%   GCM21BR72A104KA37#   ### 20%   GCM21BR81H124KA37#   ### 20%   GCM21BL81H124KA37#   ### 20%   GCM21BL81H154KA37#   ### 20%   GCM21BL81H154KA37#   ### 20%   GCM21BL81H184KA37#   ### 20%   GCM21BL81H184KA37#   ### 20%   GCM21BL81H184KA37#   ### 20%   GCM21BL81H334KA56#   ### 20%   GCM21BL81H334KA56#   ### 20%   GCM21BL81H334KA56#   ### 20%   GCM21BR91H333KA37#   ### 20%   GCM21BR91H333MA37#   ### 47000pF					±20%	GCM21BR72A273MA37#
39000pF				33000pF	±10%	GCM21BR72A333KA37#
### ### ##############################					±20%	GCM21BR72A333MA37#
47000pF				39000pF	±10%	GCM21BR72A393KA37#
### ±20% GCM21BR72A473MA37#    56000pF					±20%	GCM21BR72A393MA37#
56000pF   ±10%   GCM21BR72A563KA37#   ±20%   GCM21BR72A563MA37#   ±20%   GCM21BR72A683KA37#   ±20%   GCM21BR72A683KA37#   ±20%   GCM21BR72A683MA37#   ±20%   GCM21BR72A823KA37#   ±20%   GCM21BR72A823MA37#   ±20%   GCM21BR72A104KA37#   ±20%   GCM21BR72A104KA37#   ±20%   GCM21BL81H124KA37#   ±20%   GCM21BL81H124KA37#   ±20%   GCM21BL81H154KA37#   ±20%   GCM21BL81H154KA37#   ±20%   GCM21BL81H184MA37#   ±20%   GCM21BL81H34KA37#   ±20%   GCM21BL81H34KA37#   ±20%   GCM21BL81H34KA37#   ±20%   GCM21BL81H334KA56#   ±20%   GCM21BL81H334KA56#   ±20%   GCM21BL81H333KA37#   ±20%   GCM21BL81H333KA37#   ±20%   GCM21BR91H333MA37#   ±20%   GCM21BR91H473KA37#   ±20%   GCM21BR91H473KA37#   ±20%   GCM21BR91H473MA37#   ±20%   GCM21BR91H683KA37#   ±20%   GCM21BR91H683MA37#   ±20%   GCM21BR91H04KA35#   ±20%   GCM21BR91H04KA35#   ±20%   GCM21BR91H04KA35#   ±20%   GCM21BR91H04KA35#   ±20%   GCM21BR91H04KA35#   ±20%   GCM21BR91H04KA35#   ±20%   GCM21BR91H04KA35#   ±20%   GCM21BR91H04KA35#   ±20%   GCM21BR91H04KA35#   ±20%   GCM21BR91H04KA35#   ±20%   GCM21BR91H04KA35#   ±20%   GCM21BR91H04KA35#   ±20%   GCM2				47000pF	±10%	GCM21BR72A473KA37#
# ±20% GCM21BR72A563MA37# # ±20% GCM21BR72A683MA37# # ±20% GCM21BR72A683MA37# # ±20% GCM21BR72A823MA37# # ±20% GCM21BR72A823MA37# # ±20% GCM21BR72A823MA37# # ±20% GCM21BR72A104MA37# # ±20% GCM21BR72A104MA37# # ±20% GCM21BL81H124MA37# # ±20% GCM21BL81H124MA37# # ±20% GCM21BL81H154MA37# # ±20% GCM21BL81H154MA37# # ±20% GCM21BL81H184MA37# # ±20% GCM21BL81H184MA37# # ±20% GCM21BL81H34MA37# # ±20% GCM21BL81H34MA37# # ±20% GCM21BL81H34MA37# # ±20% GCM21BL81H334MA56# # ±20% GCM21BL81H334MA56# # ±20% GCM21BL81H333MA37# # ±20% GCM21BR91H333MA37# # ±20% GCM21BR91H473MA37# # ±20% GCM21BR91H473MA37# # ±20% GCM21BR91H683MA37# # ±20% GCM21BR91H683MA37# # ±20% GCM21BR91H04MA37# # ±20% GCM21BR91H04MA37# # ±20% GCM21BR91H04MA37# # ±20% GCM21BR91H104MA3					±20%	GCM21BR72A473MA37#
68000pF				56000pF	±10%	GCM21BR72A563KA37#
±20%   GCM21BR72A683MA37#     ±20%   GCM21BR72A823KA37#     ±20%   GCM21BR72A823MA37#     ±20%   GCM21BR72A104KA37#     ±20%   GCM21BR72A104MA37#     ±20%   GCM21BR72A104MA37#     ±20%   GCM21BL81H124KA37#     ±20%   GCM21BL81H124MA37#     ±20%   GCM21BL81H154MA37#     ±20%   GCM21BL81H154MA37#     ±20%   GCM21BL81H184KA37#     ±20%   GCM21BL81H184MA37#     ±20%   GCM21BL81H184MA37#     ±20%   GCM21BL81H224MA37#     ±20%   GCM21BL81H334KA56#     ±20%   GCM21BL81H334KA56#     ±20%   GCM21BL81H333MA37#     ±20%   GCM21BR91H333MA37#     ±20%   GCM21BR91H333MA37#     ±20%   GCM21BR91H473KA37#     ±20%   GCM21BR91H473MA37#     ±20%   GCM21BR91H683MA37#     ±20%   GCM21BR91H104KA37#     ±20%   GCM21BR91H104KA37#     ±20%   GCM21BR91H104MA37#     ±20					±20%	GCM21BR72A563MA37#
\$2000pF				68000pF	±10%	GCM21BR72A683KA37#
1 ±20% GCM21BR72A823MA37#  1 ±10% GCM21BR72A104KA37#  2 ±20% GCM21BR72A104MA37#  2 ±20% GCM21BL81H124KA37#  2 ±20% GCM21BL81H124MA37#  2 ±20% GCM21BL81H154KA37#  2 ±20% GCM21BL81H154KA37#  2 ±20% GCM21BL81H184KA37#  2 ±20% GCM21BL81H184KA37#  2 ±20% GCM21BL81H184KA37#  2 ±20% GCM21BL81H184MA37#  2 ±20% GCM21BL81H224KA37#  2 ±20% GCM21BL81H334KA56#  2 ±20% GCM21BL81H334MA56#  2 ±20% GCM21BL81H333KA37#  2 ±20% GCM21BR91H333KA37#  2 ±20% GCM21BR91H473KA37#  2 ±20% GCM21BR91H473KA37#  2 ±20% GCM21BR91H683KA37#  2 ±20% GCM21BR91H683MA37#  2 ±20% GCM21BR91H104KA37#  2 ±20% GCM21BR91H104MA37#  2 ±20% GCM21BR71H224KA37#  2 ±20% GCM21BR71H224KA37#  2 ±20% GCM21BR71H224KA37#  2 ±20% GCM21BR71H224KA37#  2 ±20% GCM21BR71H224KA37#  2 ±20% GCM21BR71H224KA37#  2 ±20% GCM21BR71H224KA37#					±20%	GCM21BR72A683MA37#
0.10μF   ±10%   GCM21BR72A104KA37#   ±20%   GCM21BR72A104MA37#   ±20%   GCM21BL81H124KA37#   ±20%   GCM21BL81H124KA37#   ±20%   GCM21BL81H154KA37#   ±20%   GCM21BL81H154KA37#   ±20%   GCM21BL81H154KA37#   ±20%   GCM21BL81H184KA37#   ±20%   GCM21BL81H184KA37#   ±20%   GCM21BL81H184KA37#   ±20%   GCM21BL81H224KA37#   ±20%   GCM21BL81H224KA37#   ±20%   GCM21BL81H334KA56#   ±20%   GCM21BL81H334KA56#   ±20%   GCM21BL81H333KA37#   ±20%   GCM21BR91H333MA37#   ±20%   GCM21BR91H473KA37#   ±20%   GCM21BR91H473KA37#   ±20%   GCM21BR91H683KA37#   ±20%   GCM21BR91H04KA37#   ±20%   GCM21BR91H104KA37#   ±20%   GCM21BR91H104KA37#   ±20%   GCM21BR91H104KA37#   ±20%   GCM21BR91H104MA37#   ±20%   GCM21BR71H224KA37#   ±20%   GCM21BR71H224KA37#   ±20%   GCM21BR71H224KA37#   ±20%   GCM21BR71H224MA37#   ±20%   GCM21BR71H224MA37#   ±20%   GCM21BR71H224MA37#   ±20%   GCM21BR71H224MA37#   ±20%   GCM21BR71H224MA37#   ±20%   GCM21BR71H224MA37#   ±20%   GCM21BR71H224MA37#   ±20%   GCM21BR71H224MA37#   ±20%   GCM21BR71H224MA37#   ±20%   GCM21BR71H474KA555#   ECM21BR71H474KA55#   ECM21BR71H474KA555#   ECM21BR71H474KA555#   ECM21BR71H474KA555#   ECM21BR71H474KA555#   ECM21BR71H474KA555#   ECM21BR71H474KA555#   ECM21BR71H474KA55#   ECM21BR71H474KA55#   ECM21BR71H474KA55#   ECM21BR71H474KA55#   ECM21BR71H224MA37#   ECM21BR71H224MA37#   ECM21BR71H224MA37#   ECM21BR71H224MA37#   ECM21BR71H224MA37				82000pF	±10%	GCM21BR72A823KA37#
±20%   GCM21BR72A104MA37#   ±20%   GCM21BL81H124KA37#   ±20%   GCM21BL81H124MA37#   ±20%   GCM21BL81H154KA37#   ±20%   GCM21BL81H154MA37#   ±20%   GCM21BL81H154MA37#   ±20%   GCM21BL81H184MA37#   ±20%   GCM21BL81H184MA37#   ±20%   GCM21BL81H224KA37#   ±20%   GCM21BL81H224MA37#   ±20%   GCM21BL81H224MA37#   ±20%   GCM21BL81H334KA56#   ±20%   GCM21BL81H334MA56#   ±20%   GCM21BR91H333MA37#   ±20%   GCM21BR91H333MA37#   ±20%   GCM21BR91H473KA37#   ±20%   GCM21BR91H473MA37#   ±20%   GCM21BR91H683MA37#   ±20%   GCM21BR91H683MA37#   ±20%   GCM21BR91H104KA37#   ±20%   GCM21BR91H104MA37#   ±20%   GCM21BR91H104MA37#   ±20%   GCM21BR91H104MA37#   ±20%   GCM21BR91H104MA37#   ±20%   GCM21BR91H104MA37#   ±20%   GCM21BR91H104MA37#   ±20%   GCM21BR71H224MA37#   ±20%   GCM21BR71H224MA37#   ±20%   GCM21BR71H224MA37#   ±20%   GCM21BR71H224MA37#   ±20%   GCM21BR71H224MA37#   ±20%   GCM21BR71H224MA37#   ±20%   GCM21BR71H224MA37#   ±20%   GCM21BR71H224MA37#   ±20%   GCM21BR71H224MA37#   ±20%   GCM21BR71H224MA37#   ±20%   GCM21BR71H474KA55#   ±20%   GCM21BR91H474KA55#   ±20%   GCM21BR91H474KA55#   ±20%   GCM21BR91H474KA55#   ±20%   GCM21BR91H474KA55#   ±20%   GCM21BR91H474KA55#					±20%	GCM21BR72A823MA37#
50Vdc   X8L   0.12μF   ±10%   GCM21BL81H124KA37#   ±20%   GCM21BL81H124MA37#   0.15μF   ±10%   GCM21BL81H154KA37#   ±20%   GCM21BL81H154MA37#   ±20%   GCM21BL81H184KA37#   ±20%   GCM21BL81H184MA37#   ±20%   GCM21BL81H184MA37#   ±20%   GCM21BL81H224KA37#   ±20%   GCM21BL81H224MA37#   ±20%   GCM21BL81H334KA56#   ±20%   GCM21BL81H334MA56#   ±20%   GCM21BR91H333MA37#   ±20%   GCM21BR91H333MA37#   ±20%   GCM21BR91H473KA37#   ±20%   GCM21BR91H473MA37#   ±20%   GCM21BR91H683MA37#   ±20%   GCM21BR91H683MA37#   ±20%   GCM21BR91H104KA37#   ±20%   GCM21BR91H104MA37#   ±20%   GCM21BR91H104MA37#   ±20%   GCM21BR91H104MA37#   ±20%   GCM21BR91H104MA37#   ±20%   GCM21BR91H104MA37#   ±20%   GCM21BR91H104MA37#   ±20%   GCM21BR71H224MA37#   ±20%   GCM21BR71H224MA37#   ±20%   GCM21BR71H224MA37#   ±20%   GCM21BR71H224MA37#   ±20%   GCM21BR71H224MA37#   ±20%   GCM21BR71H224MA37#   ±20%   GCM21BR71H224MA37#   ±20%   GCM21BR71H224MA37#   ±20%   GCM21BR71H224MA37#   ±20%   GCM21BR71H474KA55#   ±10%   GCM21BR71H474KA5				0.10µF	±10%	GCM21BR72A104KA37#
±20% GCM21BL81H124MA37#  0.15μF ±10% GCM21BL81H154KA37#  ±20% GCM21BL81H154MA37#  0.18μF ±10% GCM21BL81H184KA37#  ±20% GCM21BL81H184MA37#  0.22μF ±10% GCM21BL81H224KA37#  ±20% GCM21BL81H224KA37#  0.33μF ±10% GCM21BL81H334KA56#  ±20% GCM21BL81H334KA56#  ±20% GCM21BL81H334KA36#  ±20% GCM21BR91H333KA37#  ±20% GCM21BR91H333MA37#  47000pF ±10% GCM21BR91H473KA37#  ±20% GCM21BR91H473MA37#  ±20% GCM21BR91H683KA37#  ±20% GCM21BR91H683MA37#  ±20% GCM21BR91H104KA37#  ±20% GCM21BR91H104MA37#  ±20% GCM21BR91H104MA37#  ±20% GCM21BR91H104MA37#  ±20% GCM21BR71H224KA37#  ±20% GCM21BR71H224MA37#  ±20% GCM21BR71H224MA37#					±20%	GCM21BR72A104MA37#
0.15μF ±10% GCM21BL81H154KA37#  ±20% GCM21BL81H154MA37#  0.18μF ±10% GCM21BL81H184MA37#  ±20% GCM21BL81H184MA37#  0.22μF ±10% GCM21BL81H224KA37#  ±20% GCM21BL81H224MA37#  0.33μF ±10% GCM21BL81H334KA56#  ±20% GCM21BL81H334KA56#  ±20% GCM21BR91H333KA37#  ±20% GCM21BR91H333MA37#  47000pF ±10% GCM21BR91H473KA37#  ±20% GCM21BR91H473MA37#  ±20% GCM21BR91H683KA37#  ±20% GCM21BR91H683MA37#  ±20% GCM21BR91H04KA37#  ±20% GCM21BR91H104KA37#  ±20% GCM21BR91H104MA37#  ±20% GCM21BR91H104MA37#  ±20% GCM21BR91H104MA37#  ±20% GCM21BR91H104MA37#  ±20% GCM21BR71H224KA37#  ±20% GCM21BR71H224MA37#  ±20% GCM21BR71H224MA37#		50Vdc	X8L	0.12µF	±10%	GCM21BL81H124KA37#
±20% GCM21BL81H154MA37#  0.18μF ±10% GCM21BL81H184KA37#  ±20% GCM21BL81H184MA37#  0.22μF ±10% GCM21BL81H224KA37#  ±20% GCM21BL81H224MA37#  0.33μF ±10% GCM21BL81H334KA56#  ±20% GCM21BL81H334MA56#  ±20% GCM21BL81H334MA56#  47000pF ±10% GCM21BR91H333MA37#  ±20% GCM21BR91H473KA37#  ±20% GCM21BR91H473MA37#  ±20% GCM21BR91H683KA37#  ±20% GCM21BR91H683MA37#  ±20% GCM21BR91H104KA37#  ±20% GCM21BR91H104KA37#  ±20% GCM21BR91H104MA37#  ±20% GCM21BR91H104MA37#  ±20% GCM21BR91H104MA37#  ±20% GCM21BR91H104MA37#  ±20% GCM21BR91H104MA37#  ±20% GCM21BR91H104MA37#  ±20% GCM21BR91H104MA37#					±20%	GCM21BL81H124MA37#
0.18μF ±10% GCM21BL81H184KA37#  ±20% GCM21BL81H184MA37#  0.22μF ±10% GCM21BL81H224KA37#  ±20% GCM21BL81H224MA37#  0.33μF ±10% GCM21BL81H334KA56#  ±20% GCM21BL81H334MA56#   X8R 33000pF ±10% GCM21BR91H333MA37#  ±20% GCM21BR91H333MA37#  ±20% GCM21BR91H473KA37#  ±20% GCM21BR91H473MA37#  ±20% GCM21BR91H683MA37#  ±20% GCM21BR91H683MA37#  ±20% GCM21BR91H04KA37#  ±20% GCM21BR91H104KA37#  ±20% GCM21BR91H104MA37#  X7R 0.22μF ±10% GCM21BR71H224KA37#  ±20% GCM21BR71H224MA37#  ±20% GCM21BR71H224MA37#				0.15µF	±10%	GCM21BL81H154KA37#
±20% GCM21BL81H184MA37#  0.22μF ±10% GCM21BL81H224KA37#  ±20% GCM21BL81H224MA37#  0.33μF ±10% GCM21BL81H334KA56#  ±20% GCM21BL81H334MA56#  X8R 33000pF ±10% GCM21BR91H333KA37#  ±20% GCM21BR91H333MA37#  47000pF ±10% GCM21BR91H473KA37#  ±20% GCM21BR91H473MA37#  68000pF ±10% GCM21BR91H683KA37#  ±20% GCM21BR91H683MA37#  0.10μF ±10% GCM21BR91H104KA37#  ±20% GCM21BR91H104MA37#  x7R 0.22μF ±10% GCM21BR91H104MA37#  ±20% GCM21BR91H104MA37#  ±20% GCM21BR91H104MA37#  ±20% GCM21BR91H104MA37#  ±20% GCM21BR91H104MA37#					±20%	GCM21BL81H154MA37#
0.22μF ±10% GCM21BL81H224KA37#  ±20% GCM21BL81H224MA37#  0.33μF ±10% GCM21BL81H334KA56#  ±20% GCM21BL81H334MA56#  ±20% GCM21BR91H333KA37#  ±20% GCM21BR91H333MA37#  47000pF ±10% GCM21BR91H473KA37#  ±20% GCM21BR91H473MA37#  ±20% GCM21BR91H683KA37#  ±20% GCM21BR91H683MA37#  0.10μF ±10% GCM21BR91H104KA37#  ±20% GCM21BR91H104MA37#  ±20% GCM21BR91H104MA37#  ±20% GCM21BR91H104MA37#  ±20% GCM21BR91H104MA37#  ±20% GCM21BR91H104MA37#  ±20% GCM21BR71H224KA37#  ±20% GCM21BR71H224MA37#				0.18µF	±10%	GCM21BL81H184KA37#
±20% GCM21BL81H224MA37#  0.33μF ±10% GCM21BL81H334KA56#  ±20% GCM21BL81H334MA56#  ±20% GCM21BR91H333KA37#  ±20% GCM21BR91H333MA37#  ±20% GCM21BR91H473KA37#  ±20% GCM21BR91H473MA37#  ±20% GCM21BR91H683KA37#  ±20% GCM21BR91H683MA37#  ±20% GCM21BR91H683MA37#  ±20% GCM21BR91H104KA37#  ±20% GCM21BR91H104MA37#  ±20% GCM21BR91H104MA37#  ±20% GCM21BR91H104MA37#  ±20% GCM21BR91H104MA37#  ±20% GCM21BR91H104MA37#  ±20% GCM21BR71H224KA37#  ±20% GCM21BR71H224MA37#					±20%	GCM21BL81H184MA37#
0.33μF ±10% GCM21BL81H334KA56#  ±20% GCM21BL81H334MA56#  X8R 33000pF ±10% GCM21BR91H333KA37#  ±20% GCM21BR91H333MA37#  ±20% GCM21BR91H473KA37#  ±20% GCM21BR91H473MA37#  ±20% GCM21BR91H683KA37#  ±20% GCM21BR91H683MA37#  ±20% GCM21BR91H04KA37#  ±20% GCM21BR91H104KA37#  ±20% GCM21BR91H104MA37#  ±20% GCM21BR91H104MA37#  ±20% GCM21BR71H224KA37#  ±20% GCM21BR71H224MA37#				0.22µF	±10%	GCM21BL81H224KA37#
±20% GCM21BL81H334MA56#  X8R 33000pF ±10% GCM21BR91H333KA37# ±20% GCM21BR91H333MA37#  47000pF ±10% GCM21BR91H473KA37# ±20% GCM21BR91H473MA37# 68000pF ±10% GCM21BR91H683KA37# ±20% GCM21BR91H683MA37#  ±20% GCM21BR91H104KA37# ±20% GCM21BR91H104MA37#  ±20% GCM21BR91H104MA37# ±20% GCM21BR91H104MA37#  ±20% GCM21BR71H224KA37# ±20% GCM21BR71H224MA37#					±20%	GCM21BL81H224MA37#
X8R 33000pF ±10% GCM21BR91H333KA37#  ±20% GCM21BR91H333MA37#  47000pF ±10% GCM21BR91H473KA37#  ±20% GCM21BR91H473MA37#  68000pF ±10% GCM21BR91H683KA37#  ±20% GCM21BR91H683MA37#  0.10μF ±10% GCM21BR91H104KA37#  ±20% GCM21BR91H104KA37#  ±20% GCM21BR91H104MA37#  x7R 0.22μF ±10% GCM21BR71H224KA37#  ±20% GCM21BR71H224MA37#  ±20% GCM21BR71H224MA37#				0.33µF	±10%	GCM21BL81H334KA56#
±20% GCM21BR91H333MA37#  47000pF ±10% GCM21BR91H473KA37# ±20% GCM21BR91H473MA37#  68000pF ±10% GCM21BR91H683KA37# ±20% GCM21BR91H683MA37#  0.10μF ±10% GCM21BR91H104KA37# ±20% GCM21BR91H104MA37#  ±20% GCM21BR91H104MA37#  ±20% GCM21BR71H224KA37#  ±20% GCM21BR71H224MA37#					±20%	GCM21BL81H334MA56#
47000pF ±10% GCM21BR91H473KA37# ±20% GCM21BR91H473MA37# 68000pF ±10% GCM21BR91H683KA37# ±20% GCM21BR91H683MA37# 0.10μF ±10% GCM21BR91H104KA37# ±20% GCM21BR91H104MA37# 20% GCM21BR91H104MA37# ±20% GCM21BR71H224KA37# ±20% GCM21BR71H224MA37# ±20% GCM21BR71H474KA55#			X8R	33000pF	±10%	GCM21BR91H333KA37#
±20% GCM21BR91H473MA37# 68000pF ±10% GCM21BR91H683KA37# ±20% GCM21BR91H683MA37#  0.10μF ±10% GCM21BR91H104KA37# ±20% GCM21BR91H104MA37#  X7R 0.22μF ±10% GCM21BR71H224KA37# ±20% GCM21BR71H224MA37#  0.47μF ±10% GCM21BR71H474KA55#					±20%	GCM21BR91H333MA37#
±10%   GCM21BR91H683KA37#   ±20%   GCM21BR91H683MA37#   120%   GCM21BR91H104KA37#   120%   GCM21BR91H104KA37#   120%   GCM21BR91H104MA37#   120%   GCM21BR71H224KA37#   120%   GCM21BR71H224MA37#   120%   GCM21BR71H224MA37#   120%   GCM21BR71H474KA55#   120%   GCM21BR71H474KA55#   120%   GCM21BR71H474KA55#   120%   GCM21BR71H474KA55#   120%   GCM21BR71H474KA55#   120%   GCM21BR71H474KA55#   120%   GCM21BR71H474KA55#   120%   GCM21BR71H474KA55#   120%   GCM21BR71H474KA55#   120%   GCM21BR71H474KA55#   120%   GCM21BR71H474KA55#   120%   GCM21BR71H474KA55#   120%   GCM21BR71H474KA55#   120%   GCM21BR71H474KA55#   120%   GCM21BR71H474KA55#   120%   GCM21BR71H474KA55#   120%   GCM21BR71H474KA55#   120%   GCM21BR71H474KA55#   120%   GCM21BR71H474KA55#   120%				47000pF	±10%	GCM21BR91H473KA37#
±20% GCM21BR91H683MA37#  0.10μF ±10% GCM21BR91H104KA37#  ±20% GCM21BR91H104MA37#  X7R 0.22μF ±10% GCM21BR71H224KA37#  ±20% GCM21BR71H224MA37#  0.47μF ±10% GCM21BR71H474KA55#					±20%	GCM21BR91H473MA37#
0.10μF ±10% GCM21BR91H104KA37#  ±20% GCM21BR91H104MA37#  X7R 0.22μF ±10% GCM21BR71H224KA37#  ±20% GCM21BR71H224MA37#  0.47μF ±10% GCM21BR71H474KA55#				68000pF	±10%	GCM21BR91H683KA37#
±20% GCM21BR91H104MA37#  X7R 0.22μF ±10% GCM21BR71H224KA37# ±20% GCM21BR71H224MA37#  0.47μF ±10% GCM21BR71H474KA55#					±20%	GCM21BR91H683MA37#
X7R 0.22μF ±10% GCM21BR71H224KA37# ±20% GCM21BR71H224MA37# 0.47μF ±10% GCM21BR71H474KA55#				0.10µF	±10%	GCM21BR91H104KA37#
±20% GCM21BR71H224MA37#  0.47μF ±10% GCM21BR71H474KA55#					±20%	GCM21BR91H104MA37#
0.47µF ±10% GCM21BR71H474KA55#			X7R	0.22µF	±10%	GCM21BR71H224KA37#
					±20%	GCM21BR71H224MA37#
±20% GCM21BR71H474MA55#				0.47µF	±10%	GCM21BR71H474KA55#
					±20%	GCM21BR71H474MA55#

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number	
1.4mm	50Vdc	X7R	1.0µF	±10%	GCM21BR71H105KA03#	
				±20%	GCM21BR71H105MA03#	
	35Vdc	X8L	2.2µF	±10%	GCM21BL8EG225KE07#	D4
		X7R	0.68µF	±10%	GCM21BR7YA684KA55#	
				±20%	GCM21BR7YA684MA55#	
			1.0µF	±10%	GCM21BR7YA105KA55#	
				±20%	GCM21BR7YA105MA55#	
			1.5µF	±10%	GCM21BR7YA155KA54#	
				±20%	GCM21BR7YA155MA54#	
		X7S	2.2µF	±10%	GCM21BC7YA225KE02#	
				±20%	GCM21BC7YA225ME02#	
	25Vdc	X8L	0.27µF	±10%	GCM21BL81E274KA37#	
				±20%	GCM21BL81E274MA37#	
			0.33µF	±10%	GCM21BL81E334KA37#	
				±20%	GCM21BL81E334MA37#	
			0.39µF	±10%	GCM21BL81E394KA37#	
				±20%	GCM21BL81E394MA37#	
			0.47µF	±10%	GCM21BL81E474KA37#	
				±20%	GCM21BL81E474MA37#	
			1.5µF	±10%	GCM21BL8EF155KA07#	D4
		X8R	0.15µF	±10%	GCM21BR91E154KA37#	
				±20%	GCM21BR91E154MA37#	
			0.22µF	±10%	GCM21BR91E224KA37#	
				±20%	GCM21BR91E224MA37#	
			0.33µF	±10%	GCM21BR91E334KA37#	
				±20%	GCM21BR91E334MA37#	
		X7R	0.27µF	±10%	GCM21BR71E274KA37#	
				±20%	GCM21BR71E274MA37#	
			0.33µF	±10%	GCM21BR71E334KA37#	
				±20%	GCM21BR71E334MA37#	
			0.39µF	±10%	GCM21BR71E394KA37#	
				±20%	GCM21BR71E394MA37#	
			0.47µF	±10%	GCM21BR71E474KA37#	
				±20%	GCM21BR71E474MA37#	
			0.56µF	±10%	GCM21BR71E564KA55#	
				±20%	GCM21BR71E564MA55#	
			0.68µF	±10%	GCM21BR71E684KA55#	
				±20%	GCM21BR71E684MA55#	
			0.82µF	±10%	GCM21BR71E824KA55#	
				±20%	GCM21BR71E824MA55#	
			1.0µF	±10%	GCM21BR71E105KA56#	
				±20%	GCM21BR71E105MA56#	
			1.5µF	±10%	GCM21BR71E155KA54#	
				±20%	GCM21BR71E155MA54#	
			2.2µF	±10%	GCM21BR71E225KA73#	
				±20%	GCM21BR71E225MA73#	
	16Vdc	X8L	0.27µF	±10%	GCM21BL81C274KA37#	
				±20%	GCM21BL81C274MA37#	
			0.33µF	±10%	GCM21BL81C334KA37#	
				±20%	GCM21BL81C334MA37#	
			0.39µF	±10%	GCM21BL81C394KA37#	
				±20%	GCM21BL81C394MA37#	
			0.47µF	±10%	GCM21BL81C474KA37#	
				±20%	GCM21BL81C474MA37#	
			Dart num	her#indi	cates the package specification	code

(→ 2.0×1.25mm)

(→ 2.0)	<b>∙1.25</b> m	m)				
T max.	Rated Voltage	TC Code	Сар.	Tol.	Part Number	
1.4mm	16Vdc	X8L	0.56µF	±10%	GCM21BL81C564KA37#	
				±20%	GCM21BL81C564MA37#	
			0.68µF	±10%	GCM21BL81C684KA37#	
				±20%	GCM21BL81C684MA37#	
			0.82µF	±10%	GCM21BL81C824KA37#	
				±20%	GCM21BL81C824MA37#	
			1.0µF	±10%	GCM21BL81C105KA58#	
				±20%	GCM21BL81C105MA58#	
		X7R	1.0µF	±10%	GCM21BR71C105KA58#	
				±20%	GCM21BR71C105MA58#	
			1.5µF	±10%	GCM21BR71C155KA37#	
				±20%	GCM21BR71C155MA37#	
			2.2µF	±10%	GCM21BR71C225KA64#	
				±20%	GCM21BR71C225MA64#	
			3.3µF	±10%	GCM21BR71C335KA73#	
				±20%	GCM21BR71C335MA73#	
			4.7µF	±10%	GCM21BR71C475KA73#	
				±20%	GCM21BR71C475MA73#	
	10Vdc	X7R	2.2µF	±10%	GCM21BR71A225KA37#	
				±20%	GCM21BR71A225MA37#	
			10µF	±10%	GCM21BR71A106KE22#	
				±20%	GCM21BR71A106ME22#	
		X7S	4.7µF	±10%	GCM21BC71A475KA73#	
				±20%	GCM21BC71A475MA73#	
	6.3Vdc	X7R	10µF	±10%	GCM21BR70J106KE22#	
				±20%	GCM21BR70J106ME22#	
1.45mm	100Vdc	X7S	1.0µF	±10%	GCM21BC72A105KE36#	
				±20%	GCM21BC72A105ME36#	
	35Vdc	X8L	4.7µF	±10%	GCM21BL8EG475KE08#	D4
		X7S	4.7µF	±10%	GCM21BC7YA475KE36#	
				±20%	GCM21BC7YA475ME36#	
	25Vdc	X8L	4.7µF	±10%	GCM21BL8EF475KE08#	D4
		X7S	4.7µF	±10%	GCM21BC71E475KE36#	
				±20%	GCM21BC71E475ME36#	
	16Vdc	X8M	10µF	±10%	GCM21BM8EE106KE08#	D4
		X7S	10µF	±10%	GCM21BC71C106KE36#	

1.8mm       100Vdc       X8L       2.2μF       ±10%       GCM31CL8EL225KE07#       □2         X75       2.2μF       ±10%       GCM31CC72A225KE02#       ±20%       GCM31CC72A225ME02#         50Vdc       X8L       0.56μF       ±10%       GCM31CL81H564KA37#       ±20%       GCM31CL81H684KA37#         0.68μF       ±10%       GCM31CL81H684KA37#       ±20%       GCM31CL81H684KA37#       ±20%       GCM31CL81H824KA55#         1.0μF       ±10%       GCM31CL81H824KA55#       ±20%       GCM31CL81H05KA55#       ±20%       GCM31CR91H474KA37#       ±20%       GCM31CR91H474KA37#       ±20%       GCM31CR91H474MA37#       ±20%       GCM31CR71H155KA55#       ±20%       GCM31CR71H25KA55#       ±20%       GCM31CR71H25KA55#       ±20%       GCM31CR71H25KA55#       ±20%       GCM31CR71H25KA55#       ±20%       GCM31CR71H25KA55#       ±20%       GCM31CR71H25KA55#       ±20%       GCM31CR71H25KA37#       ±20%       GCM31CR91E684KA37#       ±20%       GCM31CR91E684KA37#       ±20%       GCM31CR91E684KA37#       ±20%       GCM31CR91E684KA37#       ±20%       GCM31CR91E684KA37#       ±20%       GCM31CR91E684KA37#       ±20%       GCM31CR91E684KA37#       ±20%       GCM31CR91E684KA37#       ±20%       GCM31CR91E684KA37#       ±20%       GCM31CR91E684KA37#       ±20%       ±20% </th <th>max.</th> <th>Voltage</th> <th>Code</th> <th>Cap.</th> <th>Tol.</th> <th>Part Number</th> <th></th>	max.	Voltage	Code	Cap.	Tol.	Part Number	
±20%   GCM31CC72A225ME02#   ±20%   GCM31CL81H564KA37#   ±20%   GCM31CL81H564KA37#   ±20%   GCM31CL81H684KA37#   ±20%   GCM31CL81H684KA37#   ±20%   GCM31CL81H684KA37#   ±20%   GCM31CL81H824KA55#   ±20%   GCM31CL81H824KA55#   ±20%   GCM31CL81H824KA55#   ±20%   GCM31CL81H824KA55#   ±20%   GCM31CL81H05KA55#   ±20%   GCM31CL81H05KA55#   ±20%   GCM31CR91H474KA37#   ±20%   GCM31CR91H474KA37#   ±20%   GCM31CR91H474KA37#   ±20%   GCM31CR91H474KA37#   ±20%   GCM31CR71H155KA55#   ±20%   GCM31CR71H155KA55#   ±20%   GCM31CR71H225KA55#   ±20%   GCM31CR71H225KA55#   ±20%   GCM31CC71H475KA03#   ±20%   GCM31CC71H475KA03#   ±20%   GCM31CR91E684KA37#   ±20%   GCM31CR91E684KA37#   ±20%   GCM31CR91E684KA37#   ±20%   GCM31CR91E105KA37#   ±20%   GCM31CR71E475KA55#   ±20%   GCM31CR71E475KA55#   ±20%   GCM31CR71E475KA55#   ±20%   GCM31CR71C475KA37#   ±20%   GCM31CR71C475KA37#   ±20%   GCM31CR71C106KA64#   ±20%   GCM31CR71C106KA64#   ±20%   GCM31CR71C106KA64#   ±20%   GCM31CR71C106KA64#   ±20%   GCM31CR71C106KA64#   ±20%   GCM31CR71C226KE23#   ±20%   GCM31CR71A226KE02#   ±20%   GCM31CR71A226KE02#   ±20%   GCM31CR70J226KE23#   ±	1.8mm	100Vdc	X8L	2.2µF	±10%	GCM31CL8EL225KE07#	D4
SOVIC   XSL   0.56μF   ±10%   GCM31CL81H564KA37#   ±20%   GCM31CL81H564MA37#   ±20%   GCM31CL81H684KA37#   ±20%   GCM31CL81H684KA37#   ±20%   GCM31CL81H684MA37#   ±20%   GCM31CL81H824KA55#   ±20%   GCM31CL81H824MA55#   ±20%   GCM31CL81H824MA55#   ±20%   GCM31CL81H105KA55#   ±20%   GCM31CR91H474KA37#   ±20%   GCM31CR91H474MA37#   ±20%   GCM31CR91H474MA37#   ±20%   GCM31CR71H155KA55#   ±20%   GCM31CR71H25KA55#   ±20%   GCM31CR71H25KA55#   ±20%   GCM31CR71H25KA55#   ±20%   GCM31CR71H25KA55#   ±20%   GCM31CR71H25KA55#   ±20%   GCM31CR71H25KA37#   ±20%   GCM31CR71H475KA03#   ±20%   GCM31CR91E684KA37#   ±20%   GCM31CR91E684KA37#   ±20%   GCM31CR91E684KA37#   ±20%   GCM31CR71E475KA55#   ±20%   GCM31CR71E475KA55#   ±20%   GCM31CR71E475KA55#   ±20%   GCM31CR71E475KA55#   ±20%   GCM31CR71C475KA37#   ±20%   GCM31CR71C475KA37#   ±20%   GCM31CR71C106KA64#   ±20%   GCM31CR71C106KA64#   ±20%   GCM31CR71C26KE02#   ±20%   GCM31CR71A226KE02#   ±20%   GCM31CR71A226KE02#   ±20%   GCM31CR71A226KE02#   ±20%   GCM31CR71A226KE02#   ±20%   GCM31CR71A226KE02#   ±20%   GCM31CR71A226KE02#   ±20%   GCM31CR71A226KE02#   ±20%   GCM31CR71A226KE02#   ±20%   GCM31CR71A226KE02#   ±20%   GCM31CR71A226KE02#   ±20%   GCM31CR71A226KE02#   ±20%   GCM31CR71A226KE02#   ±20%   GCM31CR71A226KE02#   ±20%   GCM31CR71A226KE02#   ±20%   GCM31CR71A226KE02#   ±20%   GCM31CR71A226KE02#   ±20%   GCM31CR71A226KE02#   ±20%   GCM31CR70J226KE23#   ±20%   GCM3			X7S	2.2µF	±10%	GCM31CC72A225KE02#	
1-20%   GCM31CL81H564MA37#   1-20%   GCM31CL81H684KA37#   1-20%   GCM31CL81H684MA37#   1-20%   GCM31CL81H684MA37#   1-20%   GCM31CL81H824KA55#   1-20%   GCM31CL81H824MA55#   1-20%   GCM31CL81H105KA55#   1-20%   GCM31CR91H474KA37#   1-20%   GCM31CR91H474KA37#   1-20%   GCM31CR91H474MA37#   1-20%   GCM31CR71H155KA55#   1-20%   GCM31CR71H155KA55#   1-20%   GCM31CR71H155KA55#   1-20%   GCM31CR71H225KA55#   1-20%   GCM31CR71H225KA55#   1-20%   GCM31CR71H225KA55#   1-20%   GCM31CR71H225KA55#   1-20%   GCM31CR71H475KA03#   1-20%   GCM31CR91E684KA37#   1-20%   GCM31CR91E684KA37#   1-20%   GCM31CR91E684KA37#   1-20%   GCM31CR91E684KA37#   1-20%   GCM31CR91E684KA37#   1-20%   GCM31CR71E475KA55#   1-20%   GCM31CR71E475KA55#   1-20%   GCM31CR71C475KA37#   1-20%   GCM31CR70J226KE23#   1-20%   GCM31CR70J226KE23#   1-20%   GCM31CR70J226KE23#   1-20%   GCM31CR70J226KE23#   1-20%   GCM31CR70J226KE23#   1-20%   GCM31CR70J226KE23#   1-20%   GCM31CR70J226KE23#   1-20%   GCM31CR71C475KA33#   1-20%   GCM31CR70J226KE23#   1-20%   GCM31CC71E106KA03#   1-20%   GCM31CC71E106KA03#   1-20%   1-20%					±20%	GCM31CC72A225ME02#	
0.68μF   ±10%   GCM31CL81H684KA37#   ±20%   GCM31CL81H824KA55#   ±20%   GCM31CL81H824MA55#   ±20%   GCM31CL81H824MA55#   ±20%   GCM31CL81H824MA55#   ±20%   GCM31CR91H474KA37#   ±20%   GCM31CR91H474KA37#   ±20%   GCM31CR91H474MA37#   ±20%   GCM31CR91H474MA37#   ±20%   GCM31CR71H155KA55#   ±20%   GCM31CR71H155KA55#   ±20%   GCM31CR71H225KA55#   ±20%   GCM31CR71H225KA55#   ±20%   GCM31CR71H225KA55#   ±20%   GCM31CR71H225KA55#   ±20%   GCM31CR71H475KA03#   ±20%   GCM31CR71H475KA03#   ±20%   GCM31CR91E684KA37#   ±20%   GCM31CR91E684KA37#   ±20%   GCM31CR91E684KA37#   ±20%   GCM31CR91E684KA37#   ±20%   GCM31CR71E475KA55#   ±20%   GCM31CR71E475KA55#   ±20%   GCM31CR71E475KA55#   ±20%   GCM31CR71C475KA37#   ±20%   GCM31CR71C4		50Vdc	X8L	0.56µF	±10%	GCM31CL81H564KA37#	
±20% GCM31CL81H684MA37#     0.82μF					±20%	GCM31CL81H564MA37#	
0.82μF   ±10%   GCM31CL81H824KA55#   ±20%   GCM31CL81H824MA55#   ±20%   GCM31CL81H105KA55#   GCM31CL81H105KA55#   ±10%   GCM31CR91H474KA37#   ±20%   GCM31CR91H474MA37#   ±20%   GCM31CR71H155KA55#   ±20%   GCM31CR71H155KA55#   ±20%   GCM31CR71H125KA55#   ±20%   GCM31CR71H225KA55#   ±20%   GCM31CR71H225KA55#   ±20%   GCM31CC71H475KA03#   ±20%   GCM31CC71H475KA03#   ±20%   GCM31CC71H475KA03#   ±20%   GCM31CR71H25KA55#   ±20%   GCM31CR71H25KA55#   ±20%   GCM31CR91E684KA37#   ±20%   GCM31CR91E684KA37#   ±20%   GCM31CR91E105KA37#   ±20%   GCM31CR71E475KA55#   ±20%   GCM31CR71E475KA55#   ±20%   GCM31CR71E475KA55#   ±20%   GCM31CR71C475KA37#   ±20%   GCM31CR71C475KA37#   ±20%   GCM31CR71C106KA64#   ±20%   GCM31CR71C106KA64#   ±20%   GCM31CR71C106KA64#   ±20%   GCM31CR71C26KE02#   ±20%   GCM31CR71A226KE02#   ±20%   GCM31CR71A226KE02#   ±20%   GCM31CR71A226KE02#   ±20%   GCM31CR71A226KE02#   ±20%   GCM31CR71A226KE02#   ±20%   GCM31CR71A226KE02#   ±20%   GCM31CR70J226KE23#				0.68µF	±10%	GCM31CL81H684KA37#	
1.0μF   ±10%   GCM31CL81H824MA55#     X8R   0.47μF   ±10%   GCM31CR91H474KA37#     ±20%   GCM31CR91H474MA37#     ±20%   GCM31CR71H155KA55#     ±20%   GCM31CR71H155KA55#     ±20%   GCM31CR71H225KA55#     ±20%   GCM31CR71H225KA55#     ±20%   GCM31CR71H225KA55#     ±20%   GCM31CC71H475KA03#     ±20%   GCM31CC71H475KA03#     ±20%   GCM31CC71H475MA03#     ±20%   GCM31CR91E684KA37#     ±20%   GCM31CR91E684KA37#     ±20%   GCM31CR91E684MA37#     ±20%   GCM31CR91E105KA37#     ±20%   GCM31CR71E475KA55#     ±20%   GCM31CR71E475KA55#     ±20%   GCM31CR71E475KA35#     ±20%   GCM31CR71C475KA37#     ±20%   GCM31CR71C475KA37#     ±20%   GCM31CR71C106KA64#     ±20%   GCM31CR71C106KA64#     ±20%   GCM31CR71C106KA64#     ±20%   GCM31CR71A226KE02#     ±20%   GCM31CR71A226KE02#     ±20%   GCM31CR71A226KE02#     ±20%   GCM31CR70J226KE23#     ±20%   GCM31CC71E106KA03#					±20%	GCM31CL81H684MA37#	
1.0μF   ±10%   GCM31CL81H105KA55#     X8R   0.47μF   ±10%   GCM31CR91H474KA37#     ±20%   GCM31CR91H474MA37#     ±20%   GCM31CR71H155KA55#     ±20%   GCM31CR71H155MA55#     ±20%   GCM31CR71H225MA55#     ±20%   GCM31CR71H225MA55#     ±20%   GCM31CR71H225MA55#     ±20%   GCM31CC71H475KA03#     ±20%   GCM31CC71H475KA03#     ±20%   GCM31CC71H475MA03#     ±20%   GCM31CR91E684KA37#     ±20%   GCM31CR91E684MA37#     ±20%   GCM31CR91E684MA37#     ±20%   GCM31CR91E684MA37#     ±20%   GCM31CR71E475KA55#     ±20%   GCM31CR71E475KA55#     ±20%   GCM31CR71E475KA35#     ±20%   GCM31CR71C475KA37#     ±20%   GCM31CR71C475KA37#     ±20%   GCM31CR71C106KA64#     ±20%   GCM31CR71C106KA64#     ±20%   GCM31CR71C26KE02#     ±20%   GCM31CR71A226KE02#     ±20%   GCM31CR71A226KE02#     ±20%   GCM31CR70J226KE23#     ±20%   GCM31CC71E106KA03#				0.82µF	±10%	GCM31CL81H824KA55#	
X8R   0.47μF   ±10%   GCM31CR91H474KA37#   ±20%   GCM31CR91H474KA37#   ±20%   GCM31CR71H155KA55#   ±20%   GCM31CR71H155KA55#   ±20%   GCM31CR71H155KA55#   ±20%   GCM31CR71H225KA55#   ±20%   GCM31CR71H225KA55#   ±20%   GCM31CC71H475KA03#   ±20%   GCM31CC71H475KA03#   ±20%   GCM31CC71H475KA03#   ±20%   GCM31CR91E684KA37#   ±20%   GCM31CR91E684KA37#   ±20%   GCM31CR91E105KA37#   ±10%   GCM31CR71E475KA55#   ±20%   GCM31CR71E475KA55#   ±20%   GCM31CR71E475KA55#   ±20%   GCM31CR71C475KA37#   ±20%   GCM31CR71C475KA37#   ±20%   GCM31CR71C106KA64#   ±20%   GCM31CR71C106KA64#   ±20%   GCM31CR71C106KA64#   ±20%   GCM31CR71C106KA64#   ±20%   GCM31CR71A226KE02#   ±20%   GCM31CR71A226KE02#   ±20%   GCM31CR71A226KE02#   ±20%   GCM31CR70J226KE23#   ±20%   GCM31CR71E106KA03#   ±20%   GCM31CC71E106KA03#   ±20%   GCM31CC71E106KA03#   ±20%   GCM31CC71E106KA03#   ±20%   GCM31CC71E106KA03#   ±20%   GCM31CR71E106KA03#   ±20%   GCM31CR71E106KA03#   ±20%   GCM31					±20%	GCM31CL81H824MA55#	
±20%   GCM31CR91H474MA37#   ±10%   GCM31CR71H155KA55#   ±20%   GCM31CR71H155KA55#   ±20%   GCM31CR71H225KA55#   ±20%   GCM31CR71H225KA55#   ±20%   GCM31CR71H225KA55#   ±20%   GCM31CR71H225MA55#   ±20%   GCM31CC71H475KA03#   ±20%   GCM31CC71H475KA03#   ±20%   GCM31CR91E684KA37#   ±20%   GCM31CR91E684MA37#   ±20%   GCM31CR91E684MA37#   ±10%   GCM31CR91E105KA37#   ±10%   GCM31CR71E475KA55#   ±20%   GCM31CR71E475KA55#   ±20%   GCM31CR71E475KA35#   ±20%   GCM31CR71C475KA37#   ±20%   GCM31CR71C475KA37#   ±20%   GCM31CR71C475KA37#   ±20%   GCM31CR71C106KA64#   ±20%   GCM31CR71C106KA64#   ±20%   GCM31CR71C26KE02#   ±20%   GCM31CR71A226KE02#   ±20%   GCM31CR71A226KE02#   ±20%   GCM31CR70J226KE23#				1.0µF	±10%	GCM31CL81H105KA55#	
X7R			X8R	0.47µF	±10%	GCM31CR91H474KA37#	
±20%   GCM31CR71H155MA55#     ±20%   GCM31CR71H225KA55#     ±20%   GCM31CR71H225KA55#     ±20%   GCM31CC71H475KA03#     ±20%   GCM31CC71H475MA03#     ±20%   GCM31CC71H475MA03#     ±20%   GCM31CR91E684KA37#     ±20%   GCM31CR91E684MA37#     ±20%   GCM31CR91E105KA37#     X7R   4.7μF   ±10%   GCM31CR71E475KA55#     ±20%   GCM31CR71E475MA55#     ±20%   GCM31CR71C475KA37#     ±20%   GCM31CR71C475KA37#     ±20%   GCM31CR71C475MA37#     ±20%   GCM31CR71C106KA64#     ±20%   GCM31CR71C106KA64#     ±20%   GCM31CR71C106KA64#     ±20%   GCM31CR71A226KE02#     ±20%   GCM31CR71A226KE02#     ±20%   GCM31CR71A226KE02#     ±20%   GCM31CR70J226KE23#     ±20%   GCM31CR70J22					±20%	GCM31CR91H474MA37#	
2.2μF   ±10%   GCM31CR71H225KA55#   ±20%   GCM31CR71H225KA55#   ±20%   GCM31CC71H475KA03#   ±20%   GCM31CC71H475KA03#   ±20%   GCM31CC71H475KA03#   ±20%   GCM31CR91E684KA37#   ±20%   GCM31CR91E684KA37#   ±20%   GCM31CR91E105KA37#   ±10%   GCM31CR91E105KA37#   ±20%   GCM31CR71E475KA55#   ±20%   GCM31CR71E475KA55#   ±20%   GCM31CR71E475KA35#   ±20%   GCM31CR71C475KA37#   ±20%   GCM31CR71C475KA37#   ±20%   GCM31CR71C475KA37#   ±20%   GCM31CR71C106KA64#   ±20%   GCM31CR71C106KA64#   ±20%   GCM31CR71C26KE02#   ±20%   GCM31CR71A226KE02#   ±20%   GCM31CR71A226KE02#   ±20%   GCM31CR71A226KE02#   ±20%   GCM31CR70J226KE23#   ±20%   GCM31CR70J226			X7R	1.5µF	±10%	GCM31CR71H155KA55#	
±20% GCM31CR71H225MA55#   ±10% GCM31CC71H475KA03#   ±20% GCM31CC71H475KA03#   ±20% GCM31CC71H475KA03#   ±20% GCM31CR91E684KA37#   ±20% GCM31CR91E684MA37#   ±20% GCM31CR91E105KA37#   ±10% GCM31CR91E105KA37#   ±20% GCM31CR71E475KA55#   ±20% GCM31CR71E475KA55#   ±20% GCM31CR71C475KA37#   ±10% GCM31CR71C475KA37#   ±20% GCM31CR71C475KA37#   ±20% GCM31CR71C475MA37#   ±10% GCM31CR71C106KA64#   ±20% GCM31CR71C106KA64#   ±20% GCM31CR71C26KE02#   ±20% GCM31CR71A226KE02#   ±20% GCM31CR71A226KE02#   ±20% GCM31CR70J226KE23#   ±20% GCM31CR70J226KE23#   ±20% GCM31CR70J226ME23#   ±20% GCM31CC71E106KA03#   ±20% GCM31CC71E106KA03#   ±20% GCM31CC71E106KA03#   ±20% GCM31CC71E106KA03#   ±20% GCM31CC71E106KA03#   ±20% GCM31CC71E106KA03#   ±20% GCM31CC71E106KA03#   ±20% GCM31CC71E106KA03#   ±20% GCM31CC71E106KA03#   ±20% GCM31CC71E106KA03#   ±20% GCM31CC71E106KA03#   ±20% GCM31CC71E106KA03#   ±20% GCM31CC71E106KA03#   ±20% GCM31CC71E106KA03#   ±20% GCM31CC71E106KA03#   ±20% GCM31CC71E106KA03#   ±20% GCM31CC71E106KA03#   ±20% GCM31CC71E1					±20%	GCM31CR71H155MA55#	
X7S				2.2µF	±10%	GCM31CR71H225KA55#	
±20%   GCM31CC71H475MA03#   ±20%   GCM31CR91E684KA37#   ±20%   GCM31CR91E684KA37#   ±20%   GCM31CR91E105KA37#   ±10%   GCM31CR91E105KA37#   ±10%   GCM31CR71E475KA55#   ±20%   GCM31CR71E475KA55#   ±20%   GCM31CR71C475KA37#   ±20%   GCM31CR71C475KA37#   ±20%   GCM31CR71C475KA37#   ±20%   GCM31CR71C106KA64#   ±20%   GCM31CR71C106KA64#   ±20%   GCM31CR71C106KA64#   ±20%   GCM31CR71A226KE02#   ±20%   GCM31CR71A226KE02#   ±20%   GCM31CR71A226KE02#   ±20%   GCM31CR70J226KE23#   ±20%   ±20%   ±20%   ±20%   ±20%   ±20%   ±20%   ±20%   ±20%   ±20%   ±20%   ±20%					±20%	GCM31CR71H225MA55#	
25Vdc   X8R   0.68μF   ±10%   GCM31CR91E684KA37#   ±20%   GCM31CR91E684MA37#   ±20%   GCM31CR91E105KA37#   X7R   4.7μF   ±10%   GCM31CR71E475KA55#   ±20%   GCM31CR71E475KA55#   ±20%   GCM31CR71C475KA37#   ±20%   GCM31CR71C475KA37#   ±20%   GCM31CR71C475MA37#   ±10%   GCM31CR71C106KA64#   ±20%   GCM31CR71C106KA64#   ±20%   GCM31CR71C106MA64#   ±20%   GCM31CR71A226KE02#   ±20%   GCM31CR71A226KE02#   ±20%   GCM31CR71A226KE02#   ±20%   GCM31CR71A226KE02#   ±20%   GCM31CR70J226KE23#   ±20%   GCM31CR70J226KE23#   ±20%   GCM31CR70J226KE23#   ±20%   GCM31CR70J226ME23#   ±20%   GCM31CR71E106KA03#   ±20%   GCM31CR70J226ME23#   ±20%   GCM31CR70J226ME23#   ±20%   GCM31CR70J226ME23#   ±20%   GCM31CR70J226ME23#   ±20%   GCM31CR70J226ME23#   ±20%   GCM31CR70J226ME23#   ±20%   ±20%   ±20%   ±20%   ±20%   ±20%   ±20%   ±20%   ±20%   ±20%   ±20%			X7S	4.7µF	±10%	GCM31CC71H475KA03#	
±20% GCM31CR91E684MA37#     1.0μF					±20%	GCM31CC71H475MA03#	
1.0μF ±10% GCM31CR91E105KA37#  X7R 4.7μF ±10% GCM31CR71E475KA55#  ±20% GCM31CR71E475MA55#  ±20% GCM31CR71C475KA37#  ±20% GCM31CR71C475MA37#  ±20% GCM31CR71C475MA37#  ±20% GCM31CR71C106KA64#  ±20% GCM31CR71C106KA64#  ±20% GCM31CR71C106MA64#  ±20% GCM31CR71A226KE02#  ±20% GCM31CR71A226KE02#  ±20% GCM31CR71A226KE02#  ±20% GCM31CR70J226KE23#  ±20% GCM31CR70J226KE23#  ±20% GCM31CR70J226ME23#  1.9mm 35Vdc X8M 10μF ±10% GCM31CM8EG106KE08# D4  X7T 10μF ±10% GCM31CD7YA106KE36#  25Vdc X7S 10μF ±10% GCM31CC71E106KA03#		25Vdc	X8R	0.68µF	±10%	GCM31CR91E684KA37#	
X7R					±20%	GCM31CR91E684MA37#	
±20%   GCM31CR71E475MA55#     16Vdc   X7R   4.7μF   ±10%   GCM31CR71C475KA37#     ±20%   GCM31CR71C475KA37#     ±20%   GCM31CR71C106KA64#     ±20%   GCM31CR71C106MA64#     ±20%   GCM31CR71C106MA64#     ±20%   GCM31CR71A226KE02#     ±20%   GCM31CR71A226KE02#     ±20%   GCM31CR71A226ME02#     ±20%   GCM31CR70J226KE23#     ±20%   GCM31CR70J226ME23#     ±20%   GCM31CR70J226ME23#     ±20%   GCM31CR70J226ME23#     ±20%   GCM31CR70J226ME23#     ±20%   GCM31CM8EG106KE08#   D4     X7T   10μF   ±10%   GCM31CD7YA106KE36#     25Vdc   X7S   10μF   ±10%   GCM31CC71E106KA03#				1.0µF	±10%	GCM31CR91E105KA37#	
16Vdc X7R 4.7μF ±10% GCM31CR71C475KA37# ±20% GCM31CR71C475MA37# 10μF ±10% GCM31CR71C106KA64# ±20% GCM31CR71C106MA64# ±20% GCM31CR71C106MA64# ±20% GCM31CR71A226KE02# ±20% GCM31CR71A226KE02# ±20% GCM31CR71A226KE02# ±20% GCM31CR70J226KE23# ±20% GCM31CR70J226KE23# ±20% GCM31CR70J226ME23# 1.9mm 35Vdc X8M 10μF ±10% GCM31CM8EG106KE08# D4 X7T 10μF ±10% GCM31CD7YA106KE36# 25Vdc X7S 10μF ±10% GCM31CC71E106KA03#			X7R	4.7µF	±10%	GCM31CR71E475KA55#	
±20%   GCM31CR71C475MA37#   10μF   ±10%   GCM31CR71C106KA64#   ±20%   GCM31CR71C106KA64#   ±20%   GCM31CR71C106MA64#   ±20%   GCM31CR71A226KE02#   ±20%   GCM31CR71A226KE02#   ±20%   GCM31CR71A226ME02#   ±20%   GCM31CR70J226KE23#   ±20%   GCM31CR70J226ME23#   ±20%   GCM31CR70J226ME23#   ±20%   GCM31CM8EG106KE08#   D4   X7T   10μF   ±10%   GCM31CD7YA106KE36#   25Vdc   X7S   10μF   ±10%   GCM31CC71E106KA03#					±20%	GCM31CR71E475MA55#	
10μF ±10% GCM31CR71C106KA64#  ±20% GCM31CR71C106MA64#  10Vdc X7R 22μF ±10% GCM31CR71A226KE02#  ±20% GCM31CR71A226ME02#  ±20% GCM31CR71A226ME02#  ±20% GCM31CR70J226KE23#  ±20% GCM31CR70J226ME23#  ±20% GCM31CR70J226ME23#  1.9mm 35Vdc X8M 10μF ±10% GCM31CM8EG106KE08# D4  X7T 10μF ±10% GCM31CD7YA106KE36#  25Vdc X7S 10μF ±10% GCM31CC71E106KA03#		16Vdc	X7R	4.7µF	±10%	GCM31CR71C475KA37#	
±20%   GCM31CR71C106MA64#     10Vdc   X7R   22μF   ±10%   GCM31CR71A226KE02#     ±20%   GCM31CR71A226KE02#     ±20%   GCM31CR70J226KE23#     ±20%   GCM31CR70J226KE23#     ±20%   GCM31CR70J226KE23#     ±20%   GCM31CR70J226KE23#     ±20%   GCM31CR70J226KE23#     ±20%   GCM31CR70J226KE23#     ±20%   GCM31CR70J226KE23#     ±20%   GCM31CR70J226KE23#     ±20%   GCM31CR70J226KE23#     ±20%   GCM31CR70J226KE23#     ±20%   GCM31CR70J226KE23#     ±20%   GCM31CR70J226KE23#     ±20%   GCM31CR71E106KA03#     ±20%   GCM31CC71E106KA00#     ±20%   GCM31CC71E106KA00#     ±20%   GCM31CC71E106KA00#     ±20%   GCM31CC71E106KA00#     ±20%   GCM31CC71E106KA00#     ±20%   GCM31					±20%	GCM31CR71C475MA37#	
10Vdc X7R 22μF ±10% GCM31CR71A226KE02# ±20% GCM31CR71A226ME02# ±20% GCM31CR70J226KE23# ±20% GCM31CR70J226ME23# ±20% GCM31CR70J226ME23# T20% GCM31CR70J226ME23# T20% GCM31CM8EG106KE08# D4 X7T 10μF ±10% GCM31CD7YA106KE36# T25Vdc X7S 10μF ±10% GCM31CC71E106KA03#				10µF	±10%	GCM31CR71C106KA64#	
±20%   GCM31CR71A226ME02#   ±20%   GCM31CR71A226ME02#   ±10%   GCM31CR70J226KE23#   ±20%   GCM31CR70J226ME23#   ±20%   GCM31CR70J226ME23#   ±20%   GCM31CM8EG106KE08#   D4   X7T   10μF   ±10%   GCM31CD7YA106KE36#   25Vdc   X7S   10μF   ±10%   GCM31CC71E106KA03#					±20%	GCM31CR71C106MA64#	
6.3Vdc X7R 22μF ±10% GCM31CR70J226KE23# ±20% GCM31CR70J226KE23# 1.9mm 35Vdc X8M 10μF ±10% GCM31CM8EG106KE08# D4 X7T 10μF ±10% GCM31CD7YA106KE36# 25Vdc X7S 10μF ±10% GCM31CC71E106KA03#		10Vdc	X7R	22µF	±10%	GCM31CR71A226KE02#	
±20%     GCM31CR70J226ME23#       1.9mm     35Vdc     X8M     10μF     ±10%     GCM31CM8EG106KE08#     D4       X7T     10μF     ±10%     GCM31CD7YA106KE36#       25Vdc     X7S     10μF     ±10%     GCM31CC71E106KA03#					±20%	GCM31CR71A226ME02#	
1.9mm 35Vdc X8M 10μF ±10% GCM31CM8EG106KE08# D4  X7T 10μF ±10% GCM31CD7YA106KE36#  25Vdc X7S 10μF ±10% GCM31CC71E106KA03#		6.3Vdc	X7R	22µF	±10%	GCM31CR70J226KE23#	
X7T   10μF   ±10%   GCM31CD7YA106KE36#   25Vdc   X7S   10μF   ±10%   GCM31CC71E106KA03#					±20%	GCM31CR70J226ME23#	
25Vdc X7S 10μF ±10% GCM31CC71E106KA03#	1.9mm	35Vdc	X8M	10µF	±10%	GCM31CM8EG106KE08#	D4
			X7T	10μF	±10%	GCM31CD7YA106KE36#	<u></u>
±20% GCM31CC71E106MA03#		25Vdc	X7S	10µF	±10%	GCM31CC71E106KA03#	
					±20%	GCM31CC71E106MA03#	

### 3.2×1.6mm

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number	
1.25mm	100Vdc	X7R	0.22µF	±10%	GCM31MR72A224KA37#	
				±20%	GCM31MR72A224MA37#	
	50Vdc	X8L	0.39µF	±10%	GCM31ML81H394KA37#	
				±20%	GCM31ML81H394MA37#	
			0.47µF	±10%	GCM31ML81H474KA37#	
				±20%	GCM31ML81H474MA37#	
		X8R	0.22µF	±10%	GCM31MR91H224KA37#	
				±20%	GCM31MR91H224MA37#	
			0.33µF	±10%	GCM31MR91H334KA37#	
				±20%	GCM31MR91H334MA37#	
	25Vdc	X8L	1.0µF	±10%	GCM31ML81E105KA37#	
		X8R	0.47µF	±10%	GCM31MR91E474KA37#	
				±20%	GCM31MR91E474MA37#	

#### 3.2×2.5mm

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number	
2.2mm	100Vdc	X8L	4.7µF	±10%	GCM32DL8EL475KE07#	D4
		X7S	4.7µF	±10%	GCM32DC72A475KE02#	
				±20%	GCM32DC72A475ME02#	
	10Vdc	X8L	10µF	±10%	GCM32DL81A106KA37#	
				±20%	GCM32DL81A106MA37#	
2.7mm	50Vdc	X8L	10µF	±10%	GCM32EL8EH106KA07#	D4
		X7R	4.7µF	±10%	GCM32ER71H475KA55#	
				±20%	GCM32ER71H475MA55#	
		X7S	10µF	±10%	GCM32EC71H106KA03#	
				±20%	GCM32EC71H106MA03#	
	35Vdc	X7S	10µF	±10%	GCM32EC7YA106KA03#	
				±20%	GCM32EC7YA106MA03#	
	25Vdc	X7R	10µF	±10%	GCM32ER71E106KA57#	
				±20%	GCM32ER71E106MA57#	

Part number # indicates the package specification code.

(→ 3.2×2.5mm)

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number	
2.7mm	16Vdc	X7R	22µF	±10%	GCM32ER71C226KE19#	
				±20%	GCM32ER71C226ME19#	
	10Vdc	X7R	22µF	±10%	GCM32ER71A226KE12#	
				±20%	GCM32ER71A226ME12#	
		X7S	47µF	±10%	GCM32EC71A476KE02#	
	6.3Vdc	X7R	47µF	±10%	GCM32ER70J476KE19#	
				±20%	GCM32ER70J476ME19#	
2.85mm	25Vdc	X8L	22µF	±10%	GCM32EL8EF226KE08#	D4
		X7S	22µF	±10%	GCM32EC71E226KE36#	
	2.5Vdc	X7T	100µF	±20%	GCM32ED70E107ME36#	

High Effective Capacitance & High Ripple Current Chip Multilayer Ceramic Capacitors for Automotive

## GC3 Series







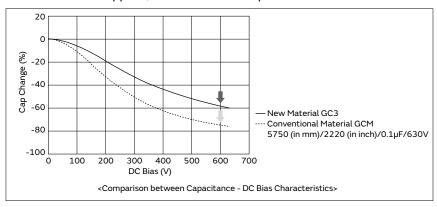


This is a high ripple resistance product for automotive excellent in DC bias characteristics.

#### **Features**

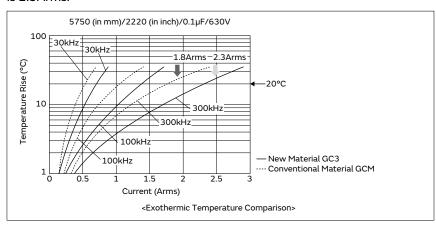
When a DC bias is applied, a capacitance higher than conventional products (X7R characteristics) can be acquired.

When DC600V is applied, about twice the capacitance can be secured.



Improved ripple resistance performance compared to conventional products (X7R characteristics).

In the case of a product with a capacitance of 0.1µF, when the exothermic temperature reaches 20°C at frequency f=300kHz, the amount of resistance of a product with conventional material is 1.8Arms; however, the new material is 2.3Arms.

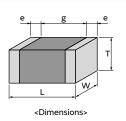


3 This product has a noise reduction effect.

Since dielectric materials that enable a reduction of noise are used, this product is more effective for reducing noise compared to the GCM series for automotive.

#### Specifications

Size	2.0×1.25mm to 5.7×5.0mm
Rated Voltage	250Vdc to 630Vdc
Capacitance	10000pF to 1.0µF
Main Applications	For PFC (Power Factor Correction) Circuits of Power Supplies, EMI Suppression and Smoothing Circuits of automotive



## GC3 Series High Dielectric Constant Type Representation Part Number List

#### 2.0×1.25mm

T max.	Rated Voltage	TC Code	Сар.	Tol.	Part Number	
1.0mm	250Vdc	X7T	10000pF	±10%	GC321AD72E103KX01#	
			15000pF	±10%	GC321AD72E153KX01#	
1.45mm	250Vdc	X7T	22000pF	±10%	GC321BD72E223KX03#	

T max.	Rated Voltage		Cap.	Tol.	Part Number	
2.7mm	250Vdc	X7T	1.0µF	±10%	GC355XD72E105KX05#	

#### 3.2×1.6mm

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number	
1.0mm	450Vdc	X7T	10000pF	±10%	GC331AD72W103KX01#	
			15000pF	±10%	GC331AD72W153KX01#	
	250Vdc	X7T	33000pF	±10%	GC331AD72E333KX01#	
1.25mm	630Vdc	X7T	10000pF	±10%	GC331BD72J103KX01#	
	450Vdc	X7T	22000pF	±10%	GC331BD72W223KX01#	
			33000pF	±10%	GC331BD72W333KX01#	
	250Vdc	X7T	47000pF	±10%	GC331BD72E473KX01#	
1.8mm	630Vdc	X7T	15000pF	±10%	GC331CD72J153KX03#	
	450Vdc	X7T	47000pF	±10%	GC331CD72W473KX03#	
	250Vdc	X7T	68000pF	±10%	GC331CD72E683KX03#	

### 3.2×2.5mm

T max.	Rated Voltage	TC Code	Сар.	Tol.	Part Number	
1.5mm	630Vdc	X7T	22000pF	±10%	GC332QD72J223KX01#	
	250Vdc	X7T	0.10µF	±10%	GC332QD72E104KX01#	_
2.0mm	630Vdc	X7T	33000pF	±10%	GC332DD72J333KX01#	_
			47000pF	±10%	GC332DD72J473KX01#	_
	450Vdc	X7T	68000pF	±10%	GC332DD72W683KX01#	
			0.10µF	±10%	GC332DD72W104KX01#	
	250Vdc	X7T	0.15µF	±10%	GC332DD72E154KX01#	

#### 4.5×3.2mm

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number	
1.5mm	250Vdc	X7T	0.22µF	±10%	GC343QD72E224KX01#	
2.0mm	630Vdc	X7T	68000pF	±10%	GC343DD72J683KX01#	
	450Vdc	X7T	0.15µF	±10%	GC343DD72W154KX01#	
	250Vdc	X7T	0.33µF	±10%	GC343DD72E334KX01#	

#### 5.7×5.0mm

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number	
2.0mm	630Vdc	X7T	0.10µF	±10%	GC355DD72J104KX01#	
			0.15µF	±10%	GC355DD72J154KX01#	
	450Vdc	X7T	0.22µF	±10%	GC355DD72W224KX01#	
			0.33µF	±10%	GC355DD72W334KX01#	
			0.47µF	±10%	GC355DD72W474KX01#	
	250Vdc	X7T	0.47µF	±10%	GC355DD72E474KX01#	
			0.68µF	±10%	GC355DD72E684KX01#	
2.7mm	630Vdc	X7T	0.22µF	±10%	GC355XD72J224KX05#	

Soft Termination Chip Multilayer Ceramic Capacitors for Automotive

## GCJ Series









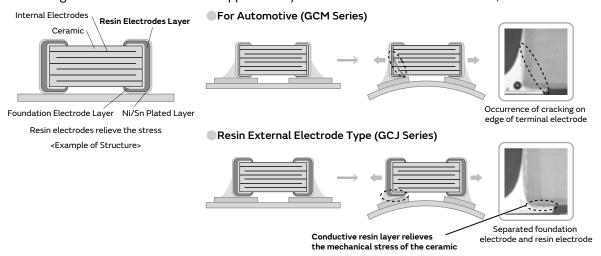


### Cracking caused by flexing stress after board mounting is minimized due to resin external electrodes!

#### **Features**

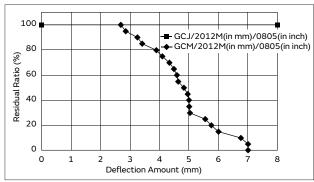
The resin external electrodes suppress cracks by board deflection.

Cracking of the ceramic element is suppressed by the resin of the external electrodes, which releases the stress.



Note: Cracks may occur in the capacitor body if excessive stress beyond the "guaranteed range of board bending strength (\*)" provided in the specifications is applied. Capacitors with cracks in them may cause a drop in insulation resistance, which could lead to a short circuit. (\*) For details on the guaranteed range of board bending strength, check the "Detailed Specification Sheet" on the Product Details Page.

## Suppresses the occurrence of cracking caused by deflection stress at the time of board mounting, etc.



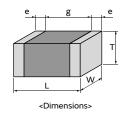
Due to the specification of the measuring instrument, measurements can be performed up 8 mm.

#### Ideal for automotive.

This AEC-Q200 conforming product is ideal for the ECU, control circuits of headlights, etc. of automotive.

#### Specifications

Size	1.6×0.8mm to 5.7×5.0mm	
Rated Voltage 6.3Vdc to 1000Vdc		
Capacitance	1000pF to 47µF	
Main Applications	Battery Lines and Powertrains for automotive	



GCM Series

s GC3 Serie

GCQ Series

GCE Series

KCM Series N

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## GCJ Series High Dielectric Constant Type 🚟 🥌 Part Number List

#### 1.6×0.8mm

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number	
.9mm	100Vdc	X8L	0.10µF	±10%	GCJ188L8EL104KA07#	D4
		X8R	1000pF	±10%	GCJ188R92A102KA01#	
				±20%	GCJ188R92A102MA01#	
			1200pF	±10%	GCJ188R92A122KA01#	
				±20%	GCJ188R92A122MA01#	
			1500pF	±10%	GCJ188R92A152KA01#	
				±20%	GCJ188R92A152MA01#	
			1800pF	±10%	GCJ188R92A182KA01#	
				±20%	GCJ188R92A182MA01#	
			2200pF	±10%	GCJ188R92A222KA01#	
				±20%	GCJ188R92A222MA01#	
			2700pF	±10%	GCJ188R92A272KA01#	
				±20%	GCJ188R92A272MA01#	
			3300pF	±10%	GCJ188R92A332KA01#	
				±20%	GCJ188R92A332MA01#	
			3900pF	±10%	GCJ188R92A392KA01#	
				±20%	GCJ188R92A392MA01#	
			4700pF	±10%	GCJ188R92A472KA01#	
				±20%	GCJ188R92A472MA01#	
			5600pF	±10%	GCJ188R92A562KA01#	
				±20%	GCJ188R92A562MA01#	
			6800pF	±10%	GCJ188R92A682KA01#	
		-		±20%	GCJ188R92A682MA01#	
			8200pF	±10%	GCJ188R92A822KA01#	
				±20%	GCJ188R92A822MA01#	
			10000pF	±10%	GCJ188R92A103KA01#	
				±20%	GCJ188R92A103MA01#	
			12000pF	±10%	GCJ188R92A123KA01#	
				±20%	GCJ188R92A123MA01#	
			15000pF	±10%	GCJ188R92A153KA01#	
				±20%	GCJ188R92A153MA01#	
			18000pF	±10%	GCJ188R92A183KA01#	
				±20%	GCJ188R92A183MA01#	
			22000pF	±10%	GCJ188R92A223KA01#	
				±20%	GCJ188R92A223MA01#	
			27000pF	±10%	GCJ188R92A273KA01#	
				±20%	GCJ188R92A273MA01#	
			33000pF	±10%	GCJ188R92A333KA01#	
			зэээрі	±20%	GCJ188R92A333MA01#	
			39000pF	±20%	GCJ188R92A393KA01#	
			ээооорг	±20%	GCJ188R92A393MA01#	
			47000pE		GCJ188R92A473KA01#	
			47000pF	±10% ±20%	GCJ188R92A473KA01# GCJ188R92A473MA01#	
			5600055		GCJ188R92A473MA01# GCJ188R92A563KA01#	
			56000pF	±10%		
			60000-5	±20%	GCJ188R92A563MA01#	
			68000pF	±10%	GCJ188R92A683KA01#	
		V75	1000-5	±20%	GCJ188R92A683MA01#	
		X7R	1000pF	±10%	GCJ188R72A102KA01#	
			1222 =	±20%	GCJ188R72A102MA01#	
			1200pF	±10%	GCJ188R72A122KA01#	
				±20%	GCJ188R72A122MA01#	

_				_		
T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number	
0.9mm	100Vdc	X7R	1500pF	±20%	GCJ188R72A152MA01#	
			1800pF	±10%	GCJ188R72A182KA01#	
				±20%	GCJ188R72A182MA01#	
			2200pF	±10%	GCJ188R72A222KA01#	
				±20%	GCJ188R72A222MA01#	
			2700pF	±10%	GCJ188R72A272KA01#	
				±20%	GCJ188R72A272MA01#	
			3300pF	±10%	GCJ188R72A332KA01#	
				±20%	GCJ188R72A332MA01#	
			3900pF	±10%	GCJ188R72A392KA01#	
				±20%	GCJ188R72A392MA01#	
			4700pF	±10%	GCJ188R72A472KA01#	
				±20%	GCJ188R72A472MA01#	
			5600pF	±10%	GCJ188R72A562KA01#	
				±20%	GCJ188R72A562MA01#	
			6800pF	±10%	GCJ188R72A682KA01#	
			оссор.	±20%	GCJ188R72A682MA01#	
			8200pF	±10%	GCJ188R72A822KA01#	
			6200pi	±20%	GCJ188R72A822MA01#	
			10000pF			
			10000br	±10%	GCJ188R72A103KA01#	
			12000.5	±20%	GCJ188R72A103MA01#	
			12000pF	±10%	GCJ188R72A123KA01#	
				±20%	GCJ188R72A123MA01#	
			15000pF	±10%	GCJ188R72A153KA01#	
				±20%	GCJ188R72A153MA01#	
			18000pF	±10%	GCJ188R72A183KA01#	
				±20%	GCJ188R72A183MA01#	
			22000pF	±10%	GCJ188R72A223KA01#	
				±20%	GCJ188R72A223MA01#	
			0.10µF	±10%	GCJ188R72A104KA01#	
				±20%	GCJ188R72A104MA01#	
	50Vdc	X8L	0.15µF	±10%	GCJ188L8EH154KA07#	D4
			0.22µF	±10%	GCJ188L8EH224KA07#	D4
		X8R	4700pF	±10%	GCJ188R91H472KA01#	
			10000pF	±10%	GCJ188R91H103KA01#	
				±20%	GCJ188R91H103MA01#	
			0.10µF	±10%	GCJ188R91H104KA01#	
				±20%	GCJ188R91H104MA01#	
			0.12µF	±10%	GCJ188R91H124KA01#	
				±20%	GCJ188R91H124MA01#	
			0.15µF	±10%	GCJ188R91H154KA01#	
			'	±20%	GCJ188R91H154MA01#	
			0.18µF	±10%	GCJ188R91H184KA01#	
			0.20р.	±20%	GCJ188R91H184MA01#	
			0.22µF	±10%	GCJ188R91H224KA01#	
			0.22μι			
		V7D	1000-5	±20%	GCJ188R91H224MA01#	
		X7R	1000pF	±10%	GCJ188R71H102KA01#	
			1200 -	±20%	GCJ188R71H102MA01#	
			1200pF	±10%	GCJ188R71H122KA01#	
				±20%	GCJ188R71H122MA01#	
			1500pF	±10%	GCJ188R71H152KA01#	
				±20%	GCJ188R71H152MA01#	
			1800pF	±10%	GCJ188R71H182KA01#	
				±20%	GCJ188R71H182MA01#	
			Part num	her#indi	cates the package specification	codo

(→ 1.6>	0.8mm	1)			
T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number
0.9mm	50Vdc	X7R	2200pF	±10%	GCJ188R71H222KA01#
				±20%	GCJ188R71H222MA01#
			2700pF	±10%	GCJ188R71H272KA01#
				±20%	GCJ188R71H272MA01#
			3300pF	±10%	GCJ188R71H332KA01#
				±20%	GCJ188R71H332MA01#
			3900pF	±10%	GCJ188R71H392KA01#
				±20%	GCJ188R71H392MA01#
			4700pF	±10%	GCJ188R71H472KA01#
				±20%	GCJ188R71H472MA01#
			5600pF	±10%	GCJ188R71H562KA01#
				±20%	GCJ188R71H562MA01#
			6800pF	±10%	GCJ188R71H682KA01#
				±20%	GCJ188R71H682MA01#
			8200pF	±10%	GCJ188R71H822KA01#
				±20%	GCJ188R71H822MA01#
			10000pF	±10%	GCJ188R71H103KA01#
				±20%	GCJ188R71H103MA01#
			12000pF	±10%	GCJ188R71H123KA01#
				±20%	GCJ188R71H123MA01#
			15000pF	±10%	GCJ188R71H153KA01#
			Тэссорі	±20%	GCJ188R71H153MA01#
			18000pF	±10%	GCJ188R71H183KA01#
			Тоссорі	±20%	GCJ188R71H183MA01#
			22000pE	±10%	GCJ188R71H223KA01#
			22000pF	±10%	GCJ188R71H223MA01#
			33000pF	±10%	GCJ188R71H333KA12#
			33000pr	±10%	GCJ188R71H333MA12#
			20000=5		
			39000pF	±10%	GCJ188R71H393KA12#
			47000-5	±20%	GCJ188R71H393MA12#
			47000pF	±10%	GCJ188R71H473KA12#
			55000 5	±20%	GCJ188R71H473MA12#
			56000pF	±10%	GCJ188R71H563KA12#
				±20%	GCJ188R71H563MA12#
			68000pF	±10%	GCJ188R71H683KA12#
				±20%	GCJ188R71H683MA12#
			82000pF	±10%	GCJ188R71H823KA12#
				±20%	GCJ188R71H823MA12#
			0.10µF	±10%	GCJ188R71H104KA12#
				±20%	GCJ188R71H104MA12#
			0.15µF	±10%	GCJ188R71H154KA01#
				±20%	GCJ188R71H154MA01#
			0.22µF	±10%	GCJ188R71H224KA01#
				±20%	GCJ188R71H224MA01#
	35Vdc	X8L	33000pF	±10%	GCJ188L8YA333KA01#
				±20%	GCJ188L8YA333MA01#
			39000pF	±10%	GCJ188L8YA393KA01#
				±20%	GCJ188L8YA393MA01#
			56000pF	±10%	GCJ188L8YA563KA01#
				±20%	GCJ188L8YA563MA01#
			68000pF	±10%	GCJ188L8YA683KA01#
				±20%	GCJ188L8YA683MA01#
	25Vdc	X8L	33000pF	±10%	GCJ188L81E333KA01#
				±20%	GCJ188L81E333MA01#

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number	
0.9mm	25Vdc	X8L	39000pF	±10%	GCJ188L81E393KA01#	
				±20%	GCJ188L81E393MA01#	
			56000pF	±10%	GCJ188L81E563KA01#	
				±20%	GCJ188L81E563MA01#	
			68000pF	±10%	GCJ188L81E683KA01#	
				±20%	GCJ188L81E683MA01#	
			82000pF	±10%	GCJ188L81E823KA01#	
				±20%	GCJ188L81E823MA01#	
			0.15µF	±10%	GCJ188L81E154KA01#	
				±20%	GCJ188L81E154MA01#	
			0.18µF	±10%	GCJ188L81E184KA01#	
				±20%	GCJ188L81E184MA01#	
			0.22µF	±10%	GCJ188L81E224KA01#	
				±20%	GCJ188L81E224MA01#	
		X8R	0.33µF	±10%	GCJ188R91E334KA01#	
				±20%	GCJ188R91E334MA01#	
			0.39µF	±10%	GCJ188R91E394KA01#	
				±20%	GCJ188R91E394MA01#	
			0.47µF	±10%	GCJ188R91E474KA01#	
				±20%	GCJ188R91E474MA01#	
		X7R	1000pF	±10%	GCJ188R71E102KA01#	
				±20%	GCJ188R71E102MA01#	
			1200pF	±10%	GCJ188R71E122KA01#	
				±20%	GCJ188R71E122MA01#	
			1500pF	±10%	GCJ188R71E152KA01#	
				±20%	GCJ188R71E152MA01#	
			1800pF	±10%	GCJ188R71E182KA01#	
				±20%	GCJ188R71E182MA01#	
			2200pF	±10%	GCJ188R71E222KA01#	
				±20%	GCJ188R71E222MA01#	
			2700pF	±10%	GCJ188R71E272KA01#	
				±20%	GCJ188R71E272MA01#	
			3300pF	±10%	GCJ188R71E332KA01#	
				±20%	GCJ188R71E332MA01#	
			3900pF	±10%	GCJ188R71E392KA01#	
				±20%	GCJ188R71E392MA01#	
			4700pF	±10%	GCJ188R71E472KA01#	
				±20%	GCJ188R71E472MA01#	
			5600pF	±10%	GCJ188R71E562KA01#	
			5000 5	±20%	GCJ188R71E562MA01#	
			6800pF	±10%	GCJ188R71E682KA01#	
			0200.5	±20%	GCJ188R71E682MA01#	
			8200pF	±10%	GCJ188R71E822KA01#	
			100005	±20%	GCJ188R71E822MA01#	
			10000pF	±10%	GCJ188R71E103KA01#	
			12000pF	±20% ±10%	GCJ188R71E103MA01# GCJ188R71E123KA01#	
			12300рі	±20%	GCJ188R71E123MA01#	
			15000pF	±10%	GCJ188R71E153KA01#	
			'	±20%	GCJ188R71E153MA01#	
			18000pF	±10%	GCJ188R71E183KA01#	
				±20%	GCJ188R71E183MA01#	
			22000pF	±10%	GCJ188R71E223KA01#	
				±20%	GCJ188R71E223MA01#	

(→ 1.6>	0.8mm	)				
T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number	
0.9mm	25Vdc	X7R	27000pF	±10%	GCJ188R71E273KA01#	
				±20%	GCJ188R71E273MA01#	
			33000pF	±10%	GCJ188R71E333KA01#	
				±20%	GCJ188R71E333MA01#	
			39000pF	±10%	GCJ188R71E393KA01#	
				±20%	GCJ188R71E393MA01#	
			47000pF	±10%	GCJ188R71E473KA01#	
				±20%	GCJ188R71E473MA01#	
			56000pF	±10%	GCJ188R71E563KA12#	
				±20%	GCJ188R71E563MA12#	
			68000pF	±10%	GCJ188R71E683KA12#	
				±20%	GCJ188R71E683MA12#	
			82000pF	±10%	GCJ188R71E823KA12#	
				±20%	GCJ188R71E823MA12#	
			0.10µF	±10%	GCJ188R71E104KA12#	
				±20%	GCJ188R71E104MA12#	
			0.12µF	±10%	GCJ188R71E124KA01#	
				±20%	GCJ188R71E124MA01#	
			0.15µF	±10%	GCJ188R71E154KA01#	
				±20%	GCJ188R71E154MA01#	
			0.18µF	±10%	GCJ188R71E184KA12#	
				±20%	GCJ188R71E184MA12#	
			0.22µF	±10%	GCJ188R71E224KA12#	
				±20%	GCJ188R71E224MA12#	
			1.0µF	±10%	GCJ188R71E105KA01#	
				±20%	GCJ188R71E105MA01#	
	16Vdc	X8L	0.22µF	±10%	GCJ188L81C224KA01#	
				±20%	GCJ188L81C224MA01#	
		X7R	27000pF	±10%	GCJ188R71C273KA01#	
				±20%	GCJ188R71C273MA01#	
			33000pF	±10%	GCJ188R71C333KA01#	
				±20%	GCJ188R71C333MA01#	
			39000pF	±10%	GCJ188R71C393KA01#	
				±20%	GCJ188R71C393MA01#	
			47000pF	±10%	GCJ188R71C473KA01#	
				±20%	GCJ188R71C473MA01#	
			56000pF	±10%	GCJ188R71C563KA01#	
				±20%	GCJ188R71C563MA01#	
			68000pF	±10%	GCJ188R71C683KA01#	
				±20%	GCJ188R71C683MA01#	
			82000pF	±10%	GCJ188R71C823KA01#	
				±20%	GCJ188R71C823MA01#	
			0.10µF	±10%	GCJ188R71C104KA01#	
				±20%	GCJ188R71C104MA01#	
			0.12µF	±10%	GCJ188R71C124KA01#	
				±20%	GCJ188R71C124MA01#	
			0.15µF	±10%	GCJ188R71C154KA01#	
				±20%	GCJ188R71C154MA01#	
			0.18µF	±10%	GCJ188R71C184KA01#	
				±20%	GCJ188R71C184MA01#	
			0.22µF	±10%	GCJ188R71C224KA01#	
				±20%	GCJ188R71C224MA01#	
			0.27µF	±10%	GCJ188R71C274KA01#	
				±20%	GCJ188R71C274MA01#	

T max.	Rated Voltage	TC Code	Сар.	Tol.	Part Number	
0.9mm	16Vdc	X7R	0.33µF	±10%	GCJ188R71C334KA01#	
				±20%	GCJ188R71C334MA01#	
			0.39µF	±10%	GCJ188R71C394KA12#	
				±20%	GCJ188R71C394MA12#	
			0.47µF	±10%	GCJ188R71C474KA12#	
				±20%	GCJ188R71C474MA12#	
	10Vdc	X7R	0.22µF	±10%	GCJ188R71A224KA01#	
				±20%	GCJ188R71A224MA01#	
	6.3Vdc	X7R	2.2µF	±10%	GCJ188R70J225KE01#	
				±20%	GCJ188R70J225ME01#	
1.0mm	6.3Vdc	X8L	3.3µF	±10%	GCJ188L8EC335KE08#	D4
		X8M	4.7µF	±10%	GCJ188M8EC475KE08#	D4
		X7S	3.3µF	±10%	GCJ188C70J335KE02#	
				±20%	GCJ188C70J335ME02#	
			4.7µF	±10%	GCJ188C70J475KE02#	
				±20%	GCJ188C70J475ME02#	

#### 2.0×1.25mm

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number	
0.95mm	100Vdc	X7R	27000pF	±10%	GCJ219R72A273KA01#	
				±20%	GCJ219R72A273MA01#	
			33000pF	±10%	GCJ219R72A333KA01#	
				±20%	GCJ219R72A333MA01#	
			39000pF	±10%	GCJ219R72A393KA01#	
				±20%	GCJ219R72A393MA01#	
	50Vdc	X7R	0.33µF	±10%	GCJ219R71H334KA12#	
				±20%	GCJ219R71H334MA12#	
	25Vdc	X7R	0.33µF	±10%	GCJ219R71E334KA01#	
				±20%	GCJ219R71E334MA01#	
			0.47µF	±10%	GCJ219R71E474KA12#	
				±20%	GCJ219R71E474MA12#	
	16Vdc	X7R	0.68µF	±10%	GCJ219R71C684KA01#	
				±20%	GCJ219R71C684MA01#	
			0.82µF	±10%	GCJ219R71C824KA01#	
				±20%	GCJ219R71C824MA01#	
			1.0µF	±10%	GCJ219R71C105KA01#	
				±20%	GCJ219R71C105MA01#	
1.0mm	250Vdc	X7R	1000pF	±10%	GCJ21AR72E102KXJ1#	
			1500pF	±10%	GCJ21AR72E152KXJ1#	
			2200pF	±10%	GCJ21AR72E222KXJ1#	
			3300pF	±10%	GCJ21AR72E332KXJ1#	
			4700pF	±10%	GCJ21AR72E472KXJ1#	
			6800pF	±10%	GCJ21AR72E682KXJ1#	
1.45mm	250Vdc	X7R	10000pF	±10%	GCJ21BR72E103KXJ3#	
			15000pF	±10%	GCJ21BR72E153KXJ3#	
			22000pF	±10%	GCJ21BR72E223KXJ3#	
	100Vdc	X7R	27000pF	±10%	GCJ21BR72A273KA01#	
				±20%	GCJ21BR72A273MA01#	
			33000pF	±10%	GCJ21BR72A333KA01#	
				±20%	GCJ21BR72A333MA01#	
			39000pF	±10%	GCJ21BR72A393KA01#	_
				±20%	GCJ21BR72A393MA01#	_
			Part num	ber#indi	cates the package specification co	de.

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## GCJ Series High Dielectric Constant Type 🚟 🥌 Part Number List

→ 2.0×	1.25m	m)			_								
T max.	Rated Voltage	TC Code	Сар.	Tol.	Part Number								
45mm	100Vdc	X7R	47000pF	±10%	GCJ21BR72A473KA01#								
				±20%	GCJ21BR72A473MA01#								
			56000pF	±10%	GCJ21BR72A563KA01#								
				±20%	GCJ21BR72A563MA01#								
			68000pF	±10%	GCJ21BR72A683KA01#								
				±20%	GCJ21BR72A683MA01#								
			82000pF	±10%	GCJ21BR72A823KA01#								
			•	±20%	GCJ21BR72A823MA01#								
			0.10µF	±10%	GCJ21BR72A104KA01#								
				±20%	GCJ21BR72A104MA01#								
	50Vdc	X8L	82000pF	±10%	GCJ21BL81H823KA01#								
	Jovac	, XOL	О2000рі	±20%	GCJ21BL81H823MA01#								
			0.1005		GCJ21BL81H104KA01#								
			0.10µF	±10%									
			0.47.5	±20%	GCJ21BL81H104MA01#								
			0.47µF	±10%	GCJ21BL8EH474KA07#	D4							
		X7R	0.22µF	±10%	GCJ21BR71H224KA01#								
				±20%	GCJ21BR71H224MA01#								
			0.33µF	±10%	GCJ21BR71H334KA12#								
				±20%	GCJ21BR71H334MA12#								
			0.47µF	±10%	GCJ21BR71H474KA12#								
				±20%	GCJ21BR71H474MA12#								
			1.0µF	±10%	GCJ21BR71H105KA01#								
				±20%	GCJ21BR71H105MA01#								
	35Vdc	X8L	0.12µF	±10%	GCJ21BL8YA124KA01#								
				±20%	GCJ21BL8YA124MA01#								
			0.15µF	±10%	GCJ21BL8YA154KA01#								
			•	±20%	GCJ21BL8YA154MA01#								
			0.18µF	±10%	GCJ21BL8YA184KA01#								
									0.20p.	±20%	GCJ21BL8YA184MA01#		
										0.22µF	±10%	GCJ21BL8YA224KA01#	
											0.22μι	±20%	
			0.225		GCJ21BL8YA224MA01#								
			0.33µF	±10%	GCJ21BL8YA334KA01#								
				±20%	GCJ21BL8YA334MA01#								
			0.47µF	±10%	GCJ21BL8YA474KA01#								
				±20%	GCJ21BL8YA474MA01#								
	25Vdc	X8L	0.12µF	±10%	GCJ21BL81E124KA01#								
				±20%	GCJ21BL81E124MA01#								
			0.15µF	±10%	GCJ21BL81E154KA01#								
				±20%	GCJ21BL81E154MA01#								
			0.18µF	±10%	GCJ21BL81E184KA01#								
				±20%	GCJ21BL81E184MA01#								
			0.22µF	±10%	GCJ21BL81E224KA01#								
				±20%	GCJ21BL81E224MA01#								
			0.27µF	±10%	GCJ21BL81E274KA01#								
			•	±20%	GCJ21BL81E274MA01#								
			0.33µF	±10%	GCJ21BL81E334KA01#								
			σ.55μι	±10%	GCJ21BL81E334MA01#								
			0.20-5			_							
			0.39µF	±10%	GCJ21BL81E394KA01#								
				±20%	GCJ21BL81E394MA01#								
			0.47µF	±10%	GCJ21BL81E474KA01#								
				±20%	GCJ21BL81E474MA01#								
			0.68µF	±10%	GCJ21BL81E684KA01#								
				±20%	GCJ21BL81E684MA01#								
			0.82µF	±10%	GCJ21BL81E824KA01#								

T max.	Rated Voltage	TC Code	Сар.	Tol.	Part Number	
1.45mm	25Vdc	X8L	0.82µF	±20%	GCJ21BL81E824MA01#	
			1.0µF	±10%	GCJ21BL81E105KA01#	
				±20%	GCJ21BL81E105MA01#	
		X7R	0.27µF	±10%	GCJ21BR71E274KA01#	
				±20%	GCJ21BR71E274MA01#	
			0.33µF	±10%	GCJ21BR71E334KA01#	
				±20%	GCJ21BR71E334MA01#	
			0.39µF	±10%	GCJ21BR71E394KA01#	
				±20%	GCJ21BR71E394MA01#	
			0.47µF	±10%	GCJ21BR71E474KA01#	
				±20%	GCJ21BR71E474MA01#	
			0.56µF	±10%	GCJ21BR71E564KA12#	
				±20%	GCJ21BR71E564MA12#	
			0.68µF	±10%	GCJ21BR71E684KA12#	
				±20%	GCJ21BR71E684MA12#	
			0.82µF	±10%	GCJ21BR71E824KA12#	
			0.02µ	±20%	GCJ21BR71E824MA12#	
			1.0µF	±10%	GCJ21BR71E105KA12#	
			1.0μΓ			
			15.5	±20%	GCJ21BR71E105MA12#	
			1.5µF	±10%	GCJ21BR71E155KA01#	
				±20%	GCJ21BR71E155MA01#	
			2.2µF	±10%	GCJ21BR71E225KA01#	
				±20%	GCJ21BR71E225MA01#	
	16Vdc	L6Vdc X8L	0.56µF	±10%	GCJ21BL81C564KA01#	
				±20%	GCJ21BL81C564MA01#	
			0.68µF	±10%	GCJ21BL81C684KA01#	
				±20%	GCJ21BL81C684MA01#	
			0.82µF	±10%	GCJ21BL81C824KA01#	
				±20%	GCJ21BL81C824MA01#	
			1.0µF	±10%	GCJ21BL81C105KA01#	
				±20%	GCJ21BL81C105MA01#	
		X7R	0.27µF	±10%	GCJ21BR71C274KA01#	
				±20%	GCJ21BR71C274MA01#	
			0.33µF	±10%	GCJ21BR71C334KA01#	
				±20%	GCJ21BR71C334MA01#	
			0.39µF	±10%	GCJ21BR71C394KA01#	
				±20%	GCJ21BR71C394MA01#	
			0.47µF	±10%	GCJ21BR71C474KA01#	
				±20%	GCJ21BR71C474MA01#	
			0.56µF	±10%	GCJ21BR71C564KA01#	
				±20%	GCJ21BR71C564MA01#	
			0.68µF	±10%	GCJ21BR71C684KA01#	
			•	±20%	GCJ21BR71C684MA01#	
			0.82µF	±10%	GCJ21BR71C824KA01#	
				±20%	GCJ21BR71C824MA01#	
			1.0µF	±10%	GCJ21BR71C105KA01#	
				±20%	GCJ21BR71C105MA01#	
			1.5µF	±10%	GCJ21BR71C155KA01#	
			µ1	±20%	GCJ21BR71C155MA01#	
			2.2µF	±10%	GCJ21BR71C155MA01#	
			2.2µF			
			47	±20%	GCJ21BR71C225MA13#	
			4.7µF	±10%	GCJ21BR71C475KA01#	
	1011	V	22 -	±20%	GCJ21BR71C475MA01#	
	10Vdc	X7R	2.2µF	±10%	GCJ21BR71A225KA01#	

(→ 2.0×1.25mm)

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number	
1.45mm	10Vdc	X7R	2.2µF	±20%	GCJ21BR71A225MA01#	
			10µF	±10%	GCJ21BR71A106KE01#	_
				±20%	GCJ21BR71A106ME01#	_
1.5mm	100Vdc	X7S	1.0µF	±10%	GCJ21BC72A105KE02#	_
				±20%	GCJ21BC72A105ME02#	_

3.2×1	.6mm				
T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number
1.25mm	1000Vdc	X7R	1000pF	±10%	GCJ31BR73A102KXJ1#
			1500pF	±10%	GCJ31BR73A152KXJ1#
			2200pF	±10%	GCJ31BR73A222KXJ1#
			3300pF	±10%	GCJ31BR73A332KXJ1#
			4700pF	±10%	GCJ31BR73A472KXJ1#
	630Vdc	X7R	1000pF	±10%	GCJ31BR72J102KXJ1#
			1500pF	±10%	GCJ31BR72J152KXJ1#
			2200pF	±10%	GCJ31BR72J222KXJ1#
			3300pF	±10%	GCJ31BR72J332KXJ1#
			4700pF	±10%	GCJ31BR72J472KXJ1#
			6800pF	±10%	GCJ31BR72J682KXJ1#
			10000pF	±10%	GCJ31BR72J103KXJ1#
	250Vdc	X7R	15000pF	±10%	GCJ31BR72E153KXJ1#
			22000pF	±10%	GCJ31BR72E223KXJ1#
			68000pF	±10%	GCJ31BR72E683KXJ1#
1.35mm	100Vdc	X7R	0.15µF	±10%	GCJ31MR72A154KA01#
				±20%	GCJ31MR72A154MA01#
			0.18µF	±10%	GCJ31MR72A184KA01#
				±20%	GCJ31MR72A184MA01#
			0.22µF	±10%	GCJ31MR72A224KA01#
				±20%	GCJ31MR72A224MA01#
	50Vdc	X7R	0.47µF	±10%	GCJ31MR71H474KA01#
				±20%	GCJ31MR71H474MA01#
			0.56µF	±10%	GCJ31MR71H564KA12#
				±20%	GCJ31MR71H564MA12#
			0.68µF	±10%	GCJ31MR71H684KA12#
				±20%	GCJ31MR71H684MA12#
			0.82µF	±10%	GCJ31MR71H824KA12#
				±20%	GCJ31MR71H824MA12#
			1.0µF	±10%	GCJ31MR71H105KA12#
				±20%	GCJ31MR71H105MA12#
	35Vdc	X8L	0.47µF	±10%	GCJ31ML8YA474KA01#
				±20%	GCJ31ML8YA474MA01#
	25Vdc	X7R	2.2µF	±10%	GCJ31MR71E225KA12#
				±20%	GCJ31MR71E225MA12#
			3.3µF	±10%	GCJ31MR71E335KA12#
				±20%	GCJ31MR71E335MA12#
	16Vdc	X8L	1.5µF	±10%	GCJ31ML81C155KA01#
				±20%	GCJ31ML81C155MA01#
			2.2µF	±10%	GCJ31ML81C225KA01#
				±20%	GCJ31ML81C225MA01#
		X7R	2.2µF	±10%	GCJ31MR71C225KA01#
				±20%	GCJ31MR71C225MA01#
1.8mm	1000Vdc	X7R	6800pF	±10%	GCJ31CR73A682KXJ3#
	1				

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number	
1.8mm	1000Vdc	X7R	10000pF	±10%	GCJ31CR73A103KXJ3#	
	630Vdc	X7R	15000pF	±10%	GCJ31CR72J153KXJ3#	
			22000pF	±10%	GCJ31CR72J223KXJ3#	
	250Vdc	X7R	33000pF	±10%	GCJ31CR72E333KXJ3#	
			47000pF	±10%	GCJ31CR72E473KXJ3#	
			0.10µF	±10%	GCJ31CR72E104KXJ3#	
1.9mm	100Vdc	X8L	1.0µF	±10%	GCJ31CL8EL105KA07#	D4
		X7R	1.0µF	±10%	GCJ31CR72A105KA01#	
				±20%	GCJ31CR72A105MA01#	
		X7S	2.2µF	±10%	GCJ31CC72A225KE01#	
Ī	50Vdc	X7R	0.56µF	±10%	GCJ31CR71H564KA01#	
				±20%	GCJ31CR71H564MA01#	
			0.68µF	±10%	GCJ31CR71H684KA01#	
				±20%	GCJ31CR71H684MA01#	
			0.82µF	±10%	GCJ31CR71H824KA12#	
				±20%	GCJ31CR71H824MA12#	
			1.0µF	±10%	GCJ31CR71H105KA12#	
			2.04.	±20%	GCJ31CR71H105MA12#	
			1.5µF	±10%	GCJ31CR71H155KA12#	
			1.5µ	±20%	GCJ31CR71H155MA12#	
			2 205	±10%	GCJ31CR71H225KA12#	
			2.2µF			
		V7C	4 7	±20%	GCJ31CR71H225MA12#	-
		X7S	4.7µF	±10%	GCJ31CC71H475KA01#	-
}				±20%	GCJ31CC71H475MA01#	_
	35Vdc	X8L	0.56µF	±10%	GCJ31CL8YA564KA01#	_
				±20%	GCJ31CL8YA564MA01#	_
			0.68µF	±10%	GCJ31CL8YA684KA01#	
				±20%	GCJ31CL8YA684MA01#	_
			0.82µF	±10%	GCJ31CL8YA824KA01#	
				±20%	GCJ31CL8YA824MA01#	
			1.0µF	±10%	GCJ31CL8YA105KA01#	
				±20%	GCJ31CL8YA105MA01#	
	25Vdc	X7R	4.7µF	±10%	GCJ31CR71E475KA12#	
				±20%	GCJ31CR71E475MA12#	
	16Vdc	X8L	3.3µF	±10%	GCJ31CL81C335KA01#	
				±20%	GCJ31CL81C335MA01#	
			4.7µF	±10%	GCJ31CL81C475KA01#	
				±20%	GCJ31CL81C475MA01#	
		X7R	3.3µF	±10%	GCJ31CR71C335KA01#	
				±20%	GCJ31CR71C335MA01#	
			4.7µF	±10%	GCJ31CR71C475KA01#	
				±20%	GCJ31CR71C475MA01#	
			10µF	±10%	GCJ31CR71C106KA15#	
				±20%	GCJ31CR71C106MA15#	
ŀ	10Vdc	X8L	22µF	±10%	GCJ31CL8ED226KE07#	D4
		X7R	6.8µF	±10%	GCJ31CR71A685KA13#	
		,,,,,	υ.υμι	±20%	GCJ31CR71A685MA13#	
			10µF	±10%	GCJ31CR71A106KA13#	-
			10μΓ			
			22	±20%	GCJ31CR71A106MA13#	
			22µF	±10%	GCJ31CR71A226KE01#	-
	C 2) / !	V75	22	±20%	GCJ31CR71A226ME01#	-
		X7R	22µF	±10%	GCJ31CR70J226KE01#	1
	6.3Vdc	,,,,,	· •	. 2021	00 121 0070 1220 1721	
2.0mm	35Vdc	X7T	10μF	±20%	GCJ31CR70J226ME01# GCJ31CD7YA106KE02#	

Part number # indicates the package specification code.

#### (→ 3.2×1.6mm)

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number	
2.0mm	25Vdc	X8L	10µF	±10%	GCJ31CL8EF106KA08#	D4
		X7S	10µF	±10%	GCJ31CC71E106KA15#	
				±20%	GCJ31CC71E106MA15#	

T max.	Rated Voltage	TC Code	Сар.	Tol.	Part Number	
2.0mm	630Vdc	X7R	0.10µF	±10%	GCJ43DR72J104KXJ1#	
	250Vdc	X7R	0.22µF	±10%	GCJ43DR72E224KXJ1#	
			0.33µF	±10%	GCJ43DR72E334KXJ1#	
			0.47µF	±10%	GCJ43DR72E474KXJ1#	

#### 3.2×2.5mm

4.5×3.2mm

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number	
1.5mm	630Vdc	X7R	6800pF	±10%	GCJ32QR72J682KXJ1#	
			10000pF	±10%	GCJ32QR72J103KXJ1#	
	250Vdc	X7R	68000pF	±10%	GCJ32QR72E683KXJ1#	
			0.15µF	±10%	GCJ32QR72E154KXJ1#	
2.0mm	1000Vdc	X7R	15000pF	±10%	GCJ32DR73A153KXJ1#	
			22000pF	±10%	GCJ32DR73A223KXJ1#	
	630Vdc	X7R	15000pF	±10%	GCJ32DR72J153KXJ1#	
			22000pF	±10%	GCJ32DR72J223KXJ1#	
			33000pF	±10%	GCJ32DR72J333KXJ1#	
			47000pF	±10%	GCJ32DR72J473KXJ1#	
	250Vdc	X7R	0.10µF	±10%	GCJ32DR72E104KXJ1#	
			0.22µF	±10%	GCJ32DR72E224KXJ1#	
2.3mm	100Vdc	X8L	2.2µF	±10%	GCJ32DL8EL225KA07#	D4
		X7R	2.2µF	±10%	GCJ32DR72A225KA01#	
				±20%	GCJ32DR72A225MA01#	
		X7S	4.7µF	±10%	GCJ32DC72A475KE01#	
				±20%	GCJ32DC72A475ME01#	
2.8mm	50Vdc	X7R	4.7µF	±10%	GCJ32ER71H475KA12#	
				±20%	GCJ32ER71H475MA12#	
		X7S	10μF	±10%	GCJ32EC71H106KA01#	
				±20%	GCJ32EC71H106MA01#	
	25Vdc	X8L	4.7µF	±10%	GCJ32EL81E475KA01#	
				±20%	GCJ32EL81E475MA01#	
		X7R	10µF	±10%	GCJ32ER71E106KA18#	
				±20%	GCJ32ER71E106MA18#	
	16Vdc	X8R	6.8µF	±10%	GCJ32ER91C685KE01#	
				±20%	GCJ32ER91C685ME01#	
			10µF	±10%	GCJ32ER91C106KE01#	
				±20%	GCJ32ER91C106ME01#	
		X7R	22µF	±10%	GCJ32ER71C226KE01#	
				±20%	GCJ32ER71C226ME01#	
	6.3Vdc	X7R	47µF	±10%	GCJ32ER70J476KE01#	
				±20%	GCJ32ER70J476ME01#	
2.85mm	25Vdc	X8L	22µF	±10%	GCJ32EL8EF226KE08#	D4
		X7S	22µF	±10%	GCJ32EC71E226KE02#	

#### TC Code Rated Voltage Part Number GCJ43QR72J683KXJ1# 630Vdc X7R 68000pF ±10% 250Vdc X7R 0.15µF ±10% GCJ43QR72E154KXJ1# 1000Vdc X7R 2.0mm 33000pF ±10% GCJ43DR73A333KXJ1# 47000pF ±10% GCJ43DR73A473KXJ1# 630Vdc X7R GCJ43DR72J333KXJ1# GCJ43DR72J473KXJ1# ±10% 47000pF

#### 5.7×5.0mm

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number	
2.0mm	1000Vdc	X7R	68000pF	±10%	GCJ55DR73A683KXJ1#	
			0.10µF	±10%	GCJ55DR73A104KXJ1#	
	630Vdc	X7R	0.10µF	±10%	GCJ55DR72J104KXJ1#	
			0.15µF	±10%	GCJ55DR72J154KXJ1#	
			0.22µF	±10%	GCJ55DR72J224KXJ1#	
	250Vdc	X7R	0.33µF	±10%	GCJ55DR72E334KXJ1#	
			0.47µF	±10%	GCJ55DR72E474KXJ1#	
			0.68µF	±10%	GCJ55DR72E684KXJ1#	
			1.0µF	±10%	GCJ55DR72E105KXJ1#	

High Q Chip Multilayer Ceramic Capacitors for Automotive

## GCQ Series







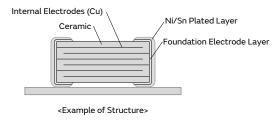


This product improves the high frequency characteristics and contributes to a reduction of power consumption by the High Q and low ESR. Capacitor for automotive applications such as power train and safety equipment.

#### **Features**

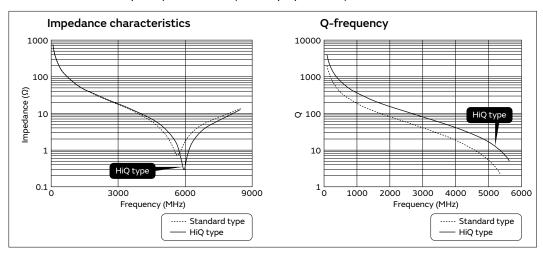
High Q and Low ESR were achieved at a "high frequency," which is ideal for matching applications.

High Q and Low ESR were achieved at a high frequency, by adopting a ceramic material with extremely low loss at a high frequency as the dielectric material, and copper for the internal electrodes. This product is ideal for matching applications.



This is a High Q capacitor for V2X, ADAS, and automotive communication applications which conform to AEC-Q200.

The self-resonant frequency of 5.9 GHz (for 2.2 pF products) is ideal for the DC-CUT in DSRC IEEE821.11p.



(3) Can be used for tight tolerance.

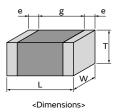
In addition to standard tolerance, the allowable range of this product is also suitable for the following tight tolerance.

Capacitance Range	Standard Capacitance Tolerance (Capacitance Tolerance Symbol)	Narrow Capacitance Tolerance (Capacitance Tolerance Symbol)
to 0.9pF	±0.1pF (B)	±0.05pF (W)
1 to 5pF	±0.25pF (C)	±0.05pF (W), ±0.1pF (B)
5.1 to 9.9pF	±0.5pF (D)	±0.05pF (W), ±0.1pF (B), ±0.25pF (C)
10pF~	±5% (J)	±2% (G)

100

### Specifications

Size	1.0×0.5mm
Rated Voltage	50Vdc
Capacitance	0.10pF to 47μF
Main Applications	DC cut in the 5.9GHz of V2X applications, and RF matching RF matching in the other automotive communication applications



# GCM Series

GC3 Series

s GCQ Series

GCE Series

## GCQ Series Temperature Compensating Type Part Number List

#### 1 0×0 5mm

Total	1.0×0.	5mm				
#0.1pF				Cap.	Tol.	Part Number
0.11pf	0.55mm	50Vdc	COG	0.10pF	±0.05pF	GCQ1555C1HR10WB01#
#0.1pF					±0.1pF	GCQ1555C1HR10BB01#
0.12pF				0.11pF	±0.05pF	GCQ1555C1HR11WB01#
#0.1pF					±0.1pF	GCQ1555C1HR11BB01#
0.13pF ±0.05pF cQ1555C1HR13WB01# ±0.1pF cQ1555C1HR15BB01# ±0.1pF cQ1555C1HR16WB01# ±0.1pF cQ1555C1HR16WB01# ±0.1pF cQ1555C1HR16BB01# c0.1pF cQ1555C1HR16WB01# ±0.1pF cQ1555C1HR16WB01# ±0.1pF cQ1555C1HR16WB01# ±0.1pF cQ1555C1HR16WB01# ±0.1pF cQ1555C1HR20WB01# ±0.1pF cQ1555C1HR20WB01# ±0.1pF cQ1555C1HR20WB01# ±0.1pF cQ1555C1HR20WB01# ±0.1pF cQ1555C1HR20WB01# ±0.1pF cQ1555C1HR20WB01# ±0.1pF cQ1555C1HR20WB01# ±0.1pF cQ1555C1HR20WB01# ±0.1pF cQ1555C1HR20WB01# ±0.1pF cQ1555C1HR20WB01# ±0.25pF cQ1555C1HR20WB01# ±0.25pF cQ1555C1HR20WB01# ±0.25pF cQ1555C1HR20WB01# ±0.25pF cQ1555C1HR30WB01# ±0.25pF cQ1555C1HR30WB01# ±0.25pF cQ1555C1HR30WB01# ±0.1pF cQ1555C1HR30WB01# ±0.25pF cQ1555C1HR30WB01# ±0.2				0.12pF	±0.05pF	GCQ1555C1HR12WB01#
#0.1pF					±0.1pF	GCQ1555C1HR12BB01#
0.15pF ±0.05pF cQ1555C1HR15WB01# ±0.1pF cQ1555C1HR16BB01# c0.1pF cQ1555C1HR18BB01# dQ1555C1HR18BB01# dQ1555C1HR18BB01# dQ1555C1HR18BB01# dQ1555C1HR18BB01# dQ1555C1HR20BB01# dQ1555C1HR30BB01# d				0.13pF	±0.05pF	GCQ1555C1HR13WB01#
#0.1pF   CQ1555C1HR15BB01#   #0.1pF   CQ1555C1HR16BB01#   #0.1pF   CQ1555C1HR18BB01#   #0.1pF   CQ1555C1HR18BB01#   #0.1pF   CQ1555C1HR20BB01#   #0.1pF   CQ1555C1HR20BB01#   #0.1pF   CQ1555C1HR20BB01#   #0.1pF   CQ1555C1HR20BB01#   #0.1pF   CQ1555C1HR20BB01#   #0.1pF   CQ1555C1HR20BB01#   #0.1pF   CQ1555C1HR20BB01#   #0.1pF   CQ1555C1HR20BB01#   #0.1pF   CQ1555C1HR20BB01#   #0.1pF   CQ1555C1HR20BB01#   #0.2pF   CQ1555C1HR20BB01#   #0.2pF   CQ1555C1HR20BB01#   #0.2pF   CQ1555C1HR20BB01#   #0.2pF   CQ1555C1HR20BB01#   #0.2pF   CQ1555C1HR30BB01#   #0.2pF   CQ1555C					±0.1pF	GCQ1555C1HR13BB01#
0.16pF ±0.05pF GCQ1555C1HR16WB01# ±0.1pF GCQ1555C1HR18WB01# ±0.1pF GCQ1555C1HR18WB01# ±0.1pF GCQ1555C1HR2WB01# ±0.1pF GCQ1555C1HR2WB01# ±0.1pF GCQ1555C1HR2WB01# ±0.1pF GCQ1555C1HR2WB01# ±0.1pF GCQ1555C1HR2BB01# G.25pF ±0.05pF GCQ1555C1HR2BB01# ±0.1pF GCQ1555C1HR2BB01# ±0.1pF GCQ1555C1HR2BB01# ±0.1pF GCQ1555C1HR2BB01# ±0.1pF GCQ1555C1HR2BB01# ±0.2pF GCQ1555C1HR2BB01# ±0.2pF GCQ1555C1HR2BB01# ±0.1pF GCQ1555C1HR2BB01# ±0.2pF GCQ1555C1HR3CB01# ±0.2pF GCQ1555C1HR3CB01# ±0.2pF GCQ1555C1HR3CB01# ±0.2pF GCQ1555C1HR3CB01# ±0.2pF GCQ1555C1HR3CB01# ±0.2pF GCQ1555C1HR3CB01# ±0.2pF GCQ1555C1HR3CB01# ±0.2pF GCQ1555C1HR3CB01# ±0.2pF GCQ1555C1HR3CB01# ±0.2pF GCQ1555C1HR3CB01# ±0.2pF GCQ1555C1HR3CB01# ±0.2pF GCQ1555C1HR3CB01# ±0.2pF GCQ1555C1HR3CB01# ±0.2pF GCQ1555C1HR3CB01# ±0.2pF GCQ1555C1HR3CB01# ±0.2pF GCQ1555C1HR3CB01# ±0.2pF GCQ1555C1HR3CB01# ±0.2pF GCQ1555C1HR3CB01# ±0.2pF GCQ1555C1HR3CB01# ±0.2pF GCQ1555C1HR3CB01# ±0				0.15pF	±0.05pF	GCQ1555C1HR15WB01#
#0.18pF					±0.1pF	GCQ1555C1HR15BB01#
0.18pF ±0.05pF GCQ1555C1HR18WB01# ±0.1pF GCQ1555C1HR2WB01# ±0.1pF GCQ155SC1HR2WB01# ±0.1pF GCQ155SC1HR2WB01# ±0.1pF GCQ155SC1HR2WB01# ±0.1pF GCQ155SC1HR2WB01# ±0.1pF GCQ155SC1HR2WB01# ±0.1pF GCQ155SC1HR2WB01# ±0.1pF GCQ155SC1HR2WB01# ±0.1pF GCQ15SSC1HR2WB01# ±0.1pF GCQ15SSC1HR2WB01# ±0.25pF GCQ15SSC1HR3WB01# ±0.25pF GCQ15SSC1HR3WB01# ±0.25pF GCQ15SSC1HR3WB01# ±0.25pF GCQ15SSC1HR3WB01# ±0.25pF GCQ15SSC1HR3WB01# ±0.25pF GCQ15SSC1HR3WB01# ±0.25pF GCQ15SSC1HR3WB01# ±0.25pF GCQ15SSC1HR3WB01# ±0.25pF GCQ15SSC1HR3WB01# ±0.25pF GCQ15SSC1HR3WB01# ±0.25pF GCQ15SSC1HR3WB01# ±0.25pF GCQ15SSC1HR3WB01# ±0.25pF GCQ15SSC1HR3WB01# ±0.25pF GCQ15SSC1HR3WB01# ±0.25pF GCQ15SSC1HR3WB01# ±0.25pF GCQ15SSC1HR3WB01# ±0.25pF GCQ15SSC1HR4WBB01# ±0.25pF GCQ15SSC1HR4WBB01# ±0.25pF GCQ15SSC1HR4WBB01# ±0.25pF GCQ15SSC1HR4WBB01# ±0.25pF GCQ15SSC1HR4WB01# ±0.25pF GCQ15SSC1HR5WB01# ±0.25pF GCQ15SSC1HR5WB01# ±0.25pF GCQ15SSC1HR5WB01# ±0.25pF GCQ15SSC1HR5WB01# ±0.25pF GCQ15SSC1HR5WB01# ±0.25pF GCQ15SSC1HR5WB01# ±0.25pF GCQ15SSC1HR5WB01# ±0.25pF GCQ15SSC1HR5WB01# ±0.25pF GCQ15SSC				0.16pF	±0.05pF	GCQ1555C1HR16WB01#
±0.1pF					±0.1pF	GCQ1555C1HR16BB01#
0.20pF ±0.05pF GCQ1555C1HR20WB01# ±0.1pF GCQ1555C1HR22WB01# ±0.1pF GCQ1555C1HR22WB01# ±0.1pF GCQ1555C1HR22WB01# ±0.1pF GCQ1555C1HR24WB01# ±0.1pF GCQ1555C1HR25BB01# GCQ1555C1HR25BB01# GCQ1555C1HR25BB01# GCQ1555C1HR27WB01# ±0.1pF GCQ1555C1HR27WB01# ±0.25pF GCQ1555C1HR27WB01# ±0.25pF GCQ1555C1HR30WB01# ±0.25pF GCQ1555C1HR33WB01# ±0.1pF GCQ1555C1HR33WB01# ±0.1pF GCQ1555C1HR33WB01# ±0.1pF GCQ1555C1HR33WB01# ±0.1pF GCQ1555C1HR33WB01# ±0.25pF GCQ1555C1HR33WB01# ±0.25pF GCQ1555C1HR30WB01# ±0.25pF GCQ1555C1HR30WB01# ±0.25pF GCQ1555C1HR30WB01# ±0.25pF GCQ1555C1HR30WB01# ±0.25pF GCQ1555C1HR30WB01# ±0.25pF GCQ1555C1HR30WB01# ±0.25pF GCQ1555C1HR30WB01# ±0.25pF GCQ1555C1HR30WB01# ±0.25pF GCQ1555C1HR30WB01# ±0.25pF GCQ1555C1HR40WB01# ±0.25pF GCQ1555C1HR50				0.18pF	±0.05pF	GCQ1555C1HR18WB01#
#0.1pF   GCQ1555C1HR20BB01#					±0.1pF	GCQ1555C1HR18BB01#
0.22pF ±0.05pF GCQ1555C1HR22WB01# ±0.1pF GCQ1555C1HR22BB01# 0.24pF ±0.05pF GCQ1555C1HR24BB01# ±0.1pF GCQ1555C1HR25BB01# ±0.25pF dCQ1555C1HR25BB01# ±0.25pF GCQ1555C1HR27BB01# ±0.25pF GCQ1555C1HR27BB01# ±0.25pF GCQ1555C1HR30BB01# ±0.25pF GCQ1555C1HR30BB01# ±0.25pF GCQ1555C1HR30BB01# ±0.25pF GCQ1555C1HR30BB01# ±0.25pF GCQ1555C1HR30BB01# ±0.25pF GCQ1555C1HR30BB01# ±0.25pF GCQ1555C1HR30BB01# ±0.25pF GCQ1555C1HR30BB01# ±0.25pF GCQ1555C1HR30BB01# ±0.25pF GCQ1555C1HR30BB01# ±0.25pF GCQ1555C1HR30BB01# ±0.25pF GCQ1555C1HR30BB01# ±0.25pF GCQ1555C1HR30BB01# ±0.25pF GCQ1555C1HR30BB01# ±0.25pF GCQ1555C1HR39BB01# ±0.25pF GCQ1555C1HR39BB01# ±0.25pF GCQ1555C1HR30BB01# ±0.25pF GCQ1555C1HR40BB01# ±0.25pF GCQ1555C1HR40BB01# ±0.25pF GCQ1555C1HR40BB01# ±0.25pF GCQ1555C1HR40BB01# ±0.25pF GCQ1555C1HR43BB01# ±0.25pF GCQ1555C1HR43BB01# ±0.25pF GCQ1555C1HR43BB01# ±0.25pF GCQ1555C1HR47BB01# ±0.25pF GCQ1555C1HR47BB01# ±0.25pF GCQ1555C1HR47BB01# ±0.25pF GCQ1555C1HR47BB01# ±0.25pF GCQ1555C1HR47BB01# ±0.25pF GCQ1555C1HR47BB01# ±0.25pF GCQ1555C1HR47BB01# ±0.25pF GCQ1555C1HR50BB01# ±0.55pF GCQ1555C1HR50BB01# ±0.55pF GCQ1555C1HR50BB01# ±0.55pF GCQ1555C1HR50BB01# ±0.55pF GCQ1555C1HR50BB01# ±0.55pF GCQ1555C1HR50BB01# ±0.55pF GCQ1555C1HR50BB01# ±0.55pF GCQ1555C1HR50BB01# ±0.55pF GCQ1555C1HR50BB01# ±0.55pF GCQ1555C1HR50BB01# ±0.55pF GCQ1555C1HR50BB01# ±0.55pF GCQ1555C1HR50BB01# ±0.55pF GCQ1555C1HR50BB01# ±0.55pF GCQ1555C1HR50BB01# ±0.55pF GCQ1555C1HR50BB01# ±0.55pF G				0.20pF	±0.05pF	GCQ1555C1HR20WB01#
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#0.1pF GCQ1555C1HR24BB01#   0.25pF ±0.1pF GCQ1555C1HR27BB01#   ±0.1pF GCQ1555C1HR27BB01#   ±0.25pF GCQ1555C1HR27CB01#   ±0.25pF GCQ1555C1HR27CB01#   ±0.25pF GCQ1555C1HR30WB01#   ±0.1pF GCQ1555C1HR30WB01#   ±0.25pF GCQ1555C1HR30WB01#   ±0.25pF GCQ1555C1HR30WB01#   ±0.25pF GCQ1555C1HR30WB01#   ±0.25pF GCQ1555C1HR30WB01#   ±0.25pF GCQ1555C1HR33WB01#   ±0.25pF GCQ1555C1HR33BB01#   ±0.25pF GCQ1555C1HR36WB01#   ±0.25pF GCQ1555C1HR36BB01#   ±0.25pF GCQ1555C1HR36BB01#   ±0.25pF GCQ1555C1HR39WB01#   ±0.1pF GCQ1555C1HR39WB01#   ±0.25pF GCQ1555C1HR40WB01#   ±0.25pF GCQ1555C1HR40WB01#   ±0.25pF GCQ1555C1HR40BB01#   ±0.25pF GCQ1555C1HR40BB01#   ±0.25pF GCQ1555C1HR43BB01#   ±0.25pF GCQ1555C1HR43BB01#   ±0.25pF GCQ1555C1HR43CB01#   0.45pF ±0.05pF GCQ1555C1HR45WB01#   ±0.1pF GCQ1555C1HR47CB01#   0.50pF GCQ1555C1HR47CB01#   ±0.25pF GCQ1555C1HR47CB01#   ±0.25pF GCQ1555C1HR47CB01#   ±0.25pF GCQ1555C1HR47CB01#   ±0.25pF GCQ1555C1HR47CB01#   ±0.25pF GCQ1555C1HR47CB01#   ±0.25pF GCQ1555C1HR50CB01#   ±0.25pF GCQ1555C1HR50CB01#   ±0.25pF GCQ1555C1HR50CB01#   ±0.5pF GCQ1555C					±0.1pF	GCQ1555C1HR22BB01#
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#0.1pF GCQ1555C1HR27BB01# #0.25pF GCQ1555C1HR30WB01# #0.1pF GCQ1555C1HR30WB01# #0.25pF GCQ1555C1HR30BB01# #0.25pF GCQ1555C1HR30BB01# #0.25pF GCQ1555C1HR33WB01# #0.1pF GCQ1555C1HR33BB01# #0.25pF GCQ1555C1HR33BB01# #0.25pF GCQ1555C1HR36WB01# #0.1pF GCQ1555C1HR36BB01# #0.25pF GCQ1555C1HR36BB01# #0.25pF GCQ1555C1HR39WB01# #0.1pF GCQ1555C1HR39WB01# #0.1pF GCQ1555C1HR39BB01# #0.1pF GCQ1555C1HR40WB01# #0.1pF GCQ1555C1HR40WB01# #0.25pF GCQ1555C1HR40WB01# #0.25pF GCQ1555C1HR40WB01# #0.25pF GCQ1555C1HR40WB01# #0.25pF GCQ1555C1HR40WB01# #0.25pF GCQ1555C1HR43BB01# #0.25pF GCQ1555C1HR43BB01# #0.25pF GCQ1555C1HR47WB01# #0.25pF GCQ1555C1HR47WB01# #0.25pF GCQ1555C1HR47WB01# #0.25pF GCQ1555C1HR47BB01# #0.25pF GCQ1555C1HR47CB01# #0.25pF GCQ1555C1HR50WB01# #0.25pF GCQ1555C1HR50BB01# #0.25pF GCQ1555C1HR50BB01# #0.25pF GCQ1555C1HR50BB01# #0.25pF GCQ1555C1HR50BB01# #0.25pF GCQ1555C1HR50BB01# #0.25pF GCQ1555C1HR50BB01#				0.25pF	±0.1pF	GCQ1555C1HR25BB01#
# 0.25pF GCQ1555C1HR27CB01#    0.30pF # 20.05pF GCQ1555C1HR30WB01# # 20.1pF GCQ1555C1HR30B01# # 20.25pF GCQ1555C1HR30WB01# # 20.25pF GCQ1555C1HR33WB01# # 20.25pF GCQ1555C1HR33WB01# # 20.25pF GCQ1555C1HR33BB01# # 20.25pF GCQ1555C1HR36WB01# # 20.25pF GCQ1555C1HR36WB01# # 20.25pF GCQ1555C1HR36WB01# # 20.25pF GCQ1555C1HR39WB01# # 20.25pF GCQ1555C1HR39WB01# # 20.25pF GCQ1555C1HR39WB01# # 20.25pF GCQ1555C1HR39WB01# # 20.25pF GCQ1555C1HR40WB01# # 20.25pF GCQ1555C1HR40WB01# # 20.25pF GCQ1555C1HR40WB01# # 20.25pF GCQ1555C1HR40WB01# # 20.25pF GCQ1555C1HR43WB01# # 20.25pF GCQ1555C1HR43WB01# # 20.25pF GCQ1555C1HR43WB01# # 20.25pF GCQ1555C1HR45WB01# # 20.25pF GCQ1555C1HR45WB01# # 20.25pF GCQ1555C1HR47WB01# # 20.25pF GCQ1555C1HR47WB01# # 20.25pF GCQ1555C1HR47CB01# # 20.25pF GCQ1555C1HR50WB01# # 20.25pF GCQ1555C1HR50WB01# # 20.25pF GCQ1555C1HR50WB01# # 20.25pF GCQ1555C1HR50WB01# # 20.25pF GCQ1555C1HR50BB01# # 20.25pF GCQ1555C1HR50BB01# # 20.25pF GCQ1555C1HR50BB01# # 20.25pF GCQ1555C1HR50BB01# # 20.25pF GCQ1555C1HR50BB01# # 20.25pF GCQ1555C1HR50BB01# # 20.25pF GCQ1555C1HR50BB01# # 20.25pF GCQ1555C1HR50BB01# # 20.25pF GCQ1555C1HR50BB01# # 20.25pF GCQ1555C1HR50BB01# # 20.25pF GCQ1555C1HR50BB01# # 20.25pF GCQ1555C1HR50BB01# # 20.25pF GCQ1555C1HR50BB01# # 20.25pF GCQ1555C1HR50BB01#				0.27pF	±0.05pF	GCQ1555C1HR27WB01#
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#0.1pF GCQ1555C1HR30BB01# #0.25pF GCQ1555C1HR30CB01# #0.1pF GCQ1555C1HR33WB01# #0.25pF GCQ1555C1HR33BB01# #0.25pF GCQ1555C1HR33BB01# #0.1pF GCQ1555C1HR36WB01# #0.1pF GCQ1555C1HR36BB01# #0.25pF GCQ1555C1HR36BB01# #0.1pF GCQ1555C1HR39WB01# #0.1pF GCQ1555C1HR39BB01# #0.1pF GCQ1555C1HR39BB01# #0.25pF GCQ1555C1HR39BB01# #0.25pF GCQ1555C1HR39BB01# #0.25pF GCQ1555C1HR40WB01# #0.1pF GCQ1555C1HR40WB01# #0.25pF GCQ1555C1HR40BB01# #0.25pF GCQ1555C1HR43WB01# #0.25pF GCQ1555C1HR43BB01# #0.25pF GCQ1555C1HR43BB01# #0.25pF GCQ1555C1HR45WB01# #0.25pF GCQ1555C1HR45WB01# #0.25pF GCQ1555C1HR45WB01# #0.1pF GCQ1555C1HR47WB01# #0.1pF GCQ1555C1HR47BB01# #0.1pF GCQ1555C1HR47BB01# #0.1pF GCQ1555C1HR47CB01# #0.25pF GCQ1555C1HR50WB01# #0.25pF GCQ1555C1HR50BB01# #0.25pF GCQ1555C1HR50BB01# #0.5pF GCQ1555C1HR50DB01# #0.5pF GCQ1555C1HR50DB01# #0.5pF GCQ1555C1HR50DB01# #0.5pF GCQ1555C1HR50DB01#					±0.25pF	GCQ1555C1HR27CB01#
10.25pF   GCQ1555C1HR30CB01#   10.33pF   10.05pF   GCQ1555C1HR33WB01#   10.25pF   GCQ1555C1HR33WB01#   10.25pF   GCQ1555C1HR36WB01#   10.25pF   GCQ1555C1HR36CB01#   10.25pF   GCQ1555C1HR36CB01#   10.25pF   GCQ1555C1HR36CB01#   10.25pF   GCQ1555C1HR39CB01#   10.25pF   GCQ1555C1HR39CB01#   10.25pF   GCQ1555C1HR39CB01#   10.25pF   GCQ1555C1HR40WB01#   10.25pF   GCQ1555C1HR40WB01#   10.25pF   GCQ1555C1HR40CB01#   10.25pF   GCQ1555C1HR40CB01#   10.25pF   GCQ1555C1HR40CB01#   10.25pF   GCQ1555C1HR40CB01#   10.25pF   GCQ1555C1HR40CB01#   10.25pF   GCQ1555C1HR40CB01#   10.25pF   GCQ1555C1HR40CB01#   10.25pF   GCQ1555C1HR40CB01#   10.25pF   GCQ1555C1HR40CB01#   10.25pF   GCQ1555C1HR40CB01#   10.25pF   GCQ1555C1HR40CB01#   10.25pF   GCQ1555C1HR40CB01#   10.25pF   GCQ1555C1HR40CB01#   10.25pF   GCQ1555C1HR50CB01#   10.25pF   GCQ1555C1				0.30pF	±0.05pF	GCQ1555C1HR30WB01#
0.33pF ±0.05pF GCQ1555C1HR33WB01# ±0.1pF GCQ1555C1HR33BB01# ±0.25pF GCQ1555C1HR36BB01# ±0.1pF GCQ1555C1HR36BB01# ±0.25pF GCQ1555C1HR36BB01# ±0.25pF GCQ1555C1HR39WB01# ±0.1pF GCQ1555C1HR39WB01# ±0.25pF GCQ1555C1HR39BB01# ±0.25pF GCQ1555C1HR39BB01# ±0.25pF GCQ1555C1HR40BB01# ±0.1pF GCQ1555C1HR40BB01# ±0.1pF GCQ1555C1HR40BB01# ±0.25pF GCQ1555C1HR40BB01# ±0.25pF GCQ1555C1HR43WB01# ±0.25pF GCQ1555C1HR43WB01# ±0.1pF GCQ1555C1HR43BB01# ±0.25pF GCQ1555C1HR43BB01# ±0.25pF GCQ1555C1HR47BB01# ±0.25pF GCQ1555C1HR47BB01# ±0.1pF GCQ1555C1HR47BB01# ±0.25pF GCQ1555C1HR47CB01#  0.50pF ±0.05pF GCQ1555C1HR50BB01# ±0.25pF GCQ1555C1HR50BB01# ±0.25pF GCQ1555C1HR50BB01# ±0.25pF GCQ1555C1HR50BB01# ±0.25pF GCQ1555C1HR50BB01#					±0.1pF	GCQ1555C1HR30BB01#
#0.1pF GCQ1555C1HR33BB01# #0.25pF GCQ1555C1HR33CB01#  #0.1pF GCQ1555C1HR36BB01# #0.25pF GCQ1555C1HR36BB01# #0.25pF GCQ1555C1HR39WB01# #0.1pF GCQ1555C1HR39WB01# #0.1pF GCQ1555C1HR39BB01# #0.25pF GCQ1555C1HR39BB01# #0.25pF GCQ1555C1HR40WB01# #0.1pF GCQ1555C1HR40WB01# #0.25pF GCQ1555C1HR40BB01# #0.25pF GCQ1555C1HR40BB01# #0.25pF GCQ1555C1HR43BB01# #0.25pF GCQ1555C1HR43BB01# #0.25pF GCQ1555C1HR43BB01# #0.25pF GCQ1555C1HR43BB01# #0.25pF GCQ1555C1HR43BB01# #0.25pF GCQ1555C1HR45WB01# #0.47pF #0.05pF GCQ1555C1HR47WB01# #0.1pF GCQ1555C1HR47BB01# #0.25pF GCQ1555C1HR47BB01# #0.25pF GCQ1555C1HR47CB01# #0.25pF GCQ1555C1HR50WB01# #0.25pF GCQ1555C1HR50BB01# #0.25pF GCQ1555C1HR50BB01# #0.25pF GCQ1555C1HR50DB01# #0.5pF GCQ1555C1HR50DB01#					±0.25pF	GCQ1555C1HR30CB01#
#0.25pF GCQ1555C1HR33CB01#  10.36pF				0.33pF	±0.05pF	GCQ1555C1HR33WB01#
0.36pF ±0.05pF GCQ1555C1HR36WB01# ±0.1pF GCQ1555C1HR36BB01# ±0.25pF GCQ1555C1HR39WB01# ±0.1pF GCQ1555C1HR39BB01# ±0.25pF GCQ1555C1HR39BB01# ±0.25pF GCQ1555C1HR39CB01#  0.40pF ±0.05pF GCQ1555C1HR40WB01# ±0.1pF GCQ1555C1HR40BB01# ±0.25pF GCQ1555C1HR40CB01#  0.43pF ±0.05pF GCQ1555C1HR43BB01# ±0.25pF GCQ1555C1HR43BB01# ±0.25pF GCQ1555C1HR43CB01#  0.45pF ±0.05pF GCQ1555C1HR45WB01#  0.47pF ±0.05pF GCQ1555C1HR47WB01# ±0.1pF GCQ1555C1HR47WB01# ±0.25pF GCQ1555C1HR47BB01# ±0.25pF GCQ1555C1HR47CB01#  0.50pF ±0.05pF GCQ1555C1HR50WB01# ±0.25pF GCQ1555C1HR50BB01# ±0.25pF GCQ1555C1HR50DB01# ±0.5pF GCQ1555C1HR50DB01# ±0.5pF GCQ1555C1HR50DB01#					±0.1pF	GCQ1555C1HR33BB01#
#0.1pF GCQ1555C1HR36BB01# #0.25pF GCQ1555C1HR39BB01# #0.1pF GCQ1555C1HR39BB01# #0.25pF GCQ1555C1HR39BB01# #0.25pF GCQ1555C1HR39BB01# #0.1pF GCQ1555C1HR40WB01# #0.1pF GCQ1555C1HR40BB01# #0.25pF GCQ1555C1HR40BB01# #0.25pF GCQ1555C1HR4WB01# #0.1pF GCQ1555C1HR43WB01# #0.1pF GCQ1555C1HR43BB01# #0.25pF GCQ1555C1HR43CB01#  0.45pF #0.05pF GCQ1555C1HR45WB01# #0.1pF GCQ1555C1HR45WB01# #0.1pF GCQ1555C1HR47WB01# #0.1pF GCQ1555C1HR47BB01# #0.25pF GCQ1555C1HR47CB01# #0.25pF GCQ1555C1HR50BB01# #0.25pF GCQ1555C1HR50BB01# #0.25pF GCQ1555C1HR50BB01# #0.5pF GCQ1555C1HR50DB01# #0.5pF GCQ1555C1HR50DB01# #0.5pF GCQ1555C1HR50DB01#					±0.25pF	GCQ1555C1HR33CB01#
#0.25pF GCQ1555C1HR36CB01# #0.1pF GCQ1555C1HR39WB01# #0.25pF GCQ1555C1HR39BB01# #0.25pF GCQ1555C1HR39CB01# #0.1pF GCQ1555C1HR40WB01# #0.1pF GCQ1555C1HR40BB01# #0.25pF GCQ1555C1HR40BB01# #0.25pF GCQ1555C1HR40CB01# #0.25pF GCQ1555C1HR43BB01# #0.25pF GCQ1555C1HR43BB01# #0.25pF GCQ1555C1HR43CB01# #0.45pF #0.05pF GCQ1555C1HR45WB01# #0.47pF #0.05pF GCQ1555C1HR47WB01# #0.1pF GCQ1555C1HR47BB01# #0.1pF GCQ1555C1HR47CB01# #0.25pF GCQ1555C1HR47CB01# #0.25pF GCQ1555C1HR50WB01# #0.25pF GCQ1555C1HR50BB01# #0.25pF GCQ1555C1HR50DB01# #0.5pF GCQ1555C1HR50DB01# #0.5pF GCQ1555C1HR50DB01#				0.36pF	±0.05pF	GCQ1555C1HR36WB01#
0.39pF ±0.05pF GCQ1555C1HR39WB01# ±0.1pF GCQ1555C1HR39BB01# ±0.25pF GCQ1555C1HR40WB01# ±0.1pF GCQ1555C1HR40WB01# ±0.1pF GCQ1555C1HR40BB01# ±0.25pF GCQ1555C1HR40CB01#  ±0.1pF GCQ1555C1HR43WB01# ±0.1pF GCQ1555C1HR43BB01# ±0.25pF GCQ1555C1HR43CB01#  0.45pF ±0.05pF GCQ1555C1HR45WB01# ±0.1pF GCQ1555C1HR45WB01# ±0.1pF GCQ1555C1HR47WB01# ±0.1pF GCQ1555C1HR47BB01# ±0.1pF GCQ1555C1HR47CB01# ±0.25pF GCQ1555C1HR47CB01# ±0.25pF GCQ1555C1HR50WB01# ±0.1pF GCQ1555C1HR50WB01# ±0.1pF GCQ1555C1HR50BB01# ±0.25pF GCQ1555C1HR50DB01# ±0.5pF GCQ1555C1HR50DB01#					±0.1pF	GCQ1555C1HR36BB01#
#0.1pF GCQ1555C1HR39BB01# #0.25pF GCQ1555C1HR40WB01# #0.1pF GCQ1555C1HR40BB01# #0.25pF GCQ1555C1HR40BB01# #0.25pF GCQ1555C1HR40CB01#  0.43pF #0.05pF GCQ1555C1HR43WB01# #0.1pF GCQ1555C1HR43BB01# #0.25pF GCQ1555C1HR43BB01# #0.25pF GCQ1555C1HR45WB01#  0.45pF #0.05pF GCQ1555C1HR47WB01# #0.1pF GCQ1555C1HR47WB01# #0.1pF GCQ1555C1HR47BB01# #0.25pF GCQ1555C1HR47BB01# #0.25pF GCQ1555C1HR50WB01# #0.1pF GCQ1555C1HR50WB01# #0.1pF GCQ1555C1HR50BB01# #0.25pF GCQ1555C1HR50BB01# #0.5pF GCQ1555C1HR50DB01# #0.5pF GCQ1555C1HR50DB01#					±0.25pF	GCQ1555C1HR36CB01#
#0.25pF GCQ1555C1HR39CB01#  0.40pF #0.05pF GCQ1555C1HR40WB01#  #0.1pF GCQ1555C1HR40BB01#  #0.25pF GCQ1555C1HR40CB01#  0.43pF #0.05pF GCQ1555C1HR43WB01#  #0.1pF GCQ1555C1HR43BB01#  #0.25pF GCQ1555C1HR43CB01#  0.45pF #0.05pF GCQ1555C1HR45WB01#  0.47pF #0.05pF GCQ1555C1HR47WB01#  #0.1pF GCQ1555C1HR47WB01#  #0.25pF GCQ1555C1HR47CB01#  #0.25pF GCQ1555C1HR50WB01#  #0.1pF GCQ1555C1HR50WB01#  #0.1pF GCQ1555C1HR50BB01#  #0.25pF GCQ1555C1HR50BB01#  #0.5pF GCQ1555C1HR50B01#  #0.5pF GCQ1555C1HR50DB01#				0.39pF	±0.05pF	GCQ1555C1HR39WB01#
0.40pF ±0.05pF GCQ1555C1HR40WB01# ±0.1pF GCQ1555C1HR40BB01# ±0.25pF GCQ1555C1HR40WB01# ±0.1pF GCQ1555C1HR43WB01# ±0.1pF GCQ1555C1HR43BB01# ±0.25pF GCQ1555C1HR43CB01#  0.45pF ±0.05pF GCQ1555C1HR45WB01#  0.47pF ±0.05pF GCQ1555C1HR47WB01# ±0.1pF GCQ1555C1HR47BB01# ±0.25pF GCQ1555C1HR47CB01#  0.50pF ±0.05pF GCQ1555C1HR50WB01# ±0.25pF GCQ1555C1HR50BB01# ±0.25pF GCQ1555C1HR50DB01# ±0.5pF GCQ1555C1HR50DB01#  ±0.5pF GCQ1555C1HR50DB01#					±0.1pF	GCQ1555C1HR39BB01#
±0.1pF GCQ1555C1HR40BB01#  ±0.25pF GCQ1555C1HR40CB01#  ±0.05pF GCQ1555C1HR43WB01#  ±0.1pF GCQ1555C1HR43BB01#  ±0.25pF GCQ1555C1HR43CB01#  0.45pF ±0.05pF GCQ1555C1HR45WB01#  ±0.1pF GCQ1555C1HR47WB01#  ±0.1pF GCQ1555C1HR47BB01#  ±0.25pF GCQ1555C1HR47CB01#  ±0.25pF GCQ1555C1HR50WB01#  ±0.1pF GCQ1555C1HR50WB01#  ±0.1pF GCQ1555C1HR50BB01#  ±0.25pF GCQ1555C1HR50DB01#  ±0.5pF GCQ1555C1HR50DB01#  ±0.5pF GCQ1555C1HR50DB01#					±0.25pF	GCQ1555C1HR39CB01#
±0.25pF GCQ1555C1HR40CB01#  0.43pF ±0.05pF GCQ1555C1HR43WB01#  ±0.1pF GCQ1555C1HR43BB01#  ±0.25pF GCQ1555C1HR43CB01#  0.45pF ±0.05pF GCQ1555C1HR45WB01#  ±0.1pF GCQ1555C1HR47WB01#  ±0.1pF GCQ1555C1HR47BB01#  ±0.25pF GCQ1555C1HR47CB01#  ±0.25pF GCQ1555C1HR50WB01#  ±0.1pF GCQ1555C1HR50BB01#  ±0.25pF GCQ1555C1HR50DB01#  ±0.5pF GCQ1555C1HR50DB01#  ±0.5pF GCQ1555C1HR50DB01#				0.40pF	±0.05pF	GCQ1555C1HR40WB01#
0.43pF ±0.05pF GCQ1555C1HR43WB01# ±0.1pF GCQ1555C1HR43BB01# ±0.25pF GCQ1555C1HR43CB01# 0.45pF ±0.05pF GCQ1555C1HR45WB01# ±0.05pF GCQ1555C1HR47WB01# ±0.1pF GCQ1555C1HR47BB01# ±0.25pF GCQ1555C1HR47CB01# ±0.25pF GCQ1555C1HR50WB01# ±0.1pF GCQ1555C1HR50BB01# ±0.25pF GCQ1555C1HR50CB01# ±0.25pF GCQ1555C1HR50CB01# ±0.5pF GCQ1555C1HR50DB01#					±0.1pF	GCQ1555C1HR40BB01#
±0.1pF GCQ1555C1HR43BB01# ±0.25pF GCQ1555C1HR43CB01#  0.45pF ±0.05pF GCQ1555C1HR45WB01#  0.47pF ±0.05pF GCQ1555C1HR47WB01# ±0.1pF GCQ1555C1HR47CB01#  ±0.25pF GCQ1555C1HR47CB01#  ±0.25pF GCQ1555C1HR50WB01# ±0.1pF GCQ1555C1HR50BB01# ±0.25pF GCQ1555C1HR50CB01#  ±0.5pF GCQ1555C1HR50DB01#  ±0.5pF GCQ1555C1HR50DB01#					±0.25pF	GCQ1555C1HR40CB01#
±0.25pF GCQ1555C1HR43CB01#  0.45pF ±0.05pF GCQ1555C1HR45WB01#  0.47pF ±0.05pF GCQ1555C1HR47WB01#  ±0.1pF GCQ1555C1HR47B01#  ±0.25pF GCQ1555C1HR47CB01#  ±0.05pF GCQ1555C1HR50WB01#  ±0.1pF GCQ1555C1HR50BB01#  ±0.25pF GCQ1555C1HR50CB01#  ±0.5pF GCQ1555C1HR50DB01#  ±0.5pF GCQ1555C1HR50DB01#				0.43pF	±0.05pF	GCQ1555C1HR43WB01#
0.45pF ±0.05pF GCQ1555C1HR45WB01#  0.47pF ±0.05pF GCQ1555C1HR47WB01#  ±0.1pF GCQ1555C1HR47BB01#  ±0.25pF GCQ1555C1HR47CB01#  0.50pF ±0.05pF GCQ1555C1HR50WB01#  ±0.1pF GCQ1555C1HR50BB01#  ±0.25pF GCQ1555C1HR50CB01#  ±0.5pF GCQ1555C1HR50DB01#  ±0.5pF GCQ1555C1HR50DB01#					±0.1pF	GCQ1555C1HR43BB01#
0.47pF ±0.05pF GCQ1555C1HR47WB01# ±0.1pF GCQ1555C1HR47BB01# ±0.25pF GCQ1555C1HR47CB01# 0.50pF ±0.05pF GCQ1555C1HR50WB01# ±0.1pF GCQ1555C1HR50BB01# ±0.25pF GCQ1555C1HR50CB01# ±0.5pF GCQ1555C1HR50DB01#					±0.25pF	GCQ1555C1HR43CB01#
±0.1pF GCQ1555C1HR47BB01# ±0.25pF GCQ1555C1HR47CB01# 0.50pF ±0.05pF GCQ1555C1HR50WB01# ±0.1pF GCQ1555C1HR50BB01# ±0.25pF GCQ1555C1HR50CB01# ±0.5pF GCQ1555C1HR50DB01# 0.51pF ±0.05pF GCQ1555C1HR51WB01#				0.45pF	±0.05pF	GCQ1555C1HR45WB01#
±0.25pF GCQ1555C1HR47CB01#  0.50pF ±0.05pF GCQ1555C1HR50WB01#  ±0.1pF GCQ1555C1HR50BB01#  ±0.25pF GCQ1555C1HR50CB01#  ±0.5pF GCQ1555C1HR50DB01#  0.51pF ±0.05pF GCQ1555C1HR51WB01#				0.47pF	±0.05pF	GCQ1555C1HR47WB01#
0.50pF ±0.05pF GCQ1555C1HR50WB01# ±0.1pF GCQ1555C1HR50BB01# ±0.25pF GCQ1555C1HR50CB01# ±0.5pF GCQ1555C1HR50DB01# 0.51pF ±0.05pF GCQ1555C1HR51WB01#					±0.1pF	GCQ1555C1HR47BB01#
±0.1pF GCQ1555C1HR50BB01# ±0.25pF GCQ1555C1HR50CB01# ±0.5pF GCQ1555C1HR50DB01# 0.51pF ±0.05pF GCQ1555C1HR51WB01#					±0.25pF	GCQ1555C1HR47CB01#
±0.25pF GCQ1555C1HR50CB01# ±0.5pF GCQ1555C1HR50DB01# 0.51pF ±0.05pF GCQ1555C1HR51WB01#				0.50pF	±0.05pF	GCQ1555C1HR50WB01#
±0.5pF GCQ1555C1HR50DB01#  0.51pF ±0.05pF GCQ1555C1HR51WB01#					±0.1pF	GCQ1555C1HR50BB01#
0.51pF ±0.05pF <b>GCQ1555C1HR51WB01#</b>					±0.25pF	GCQ1555C1HR50CB01#
					±0.5pF	GCQ1555C1HR50DB01#
±0.1pF GCQ1555C1HR51BB01#				0.51pF	±0.05pF	GCQ1555C1HR51WB01#
					±0.1pF	GCQ1555C1HR51BB01#

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number	
0.55mm	50Vdc	COG	0.51pF	±0.25pF	GCQ1555C1HR51CB01#	
				±0.5pF	GCQ1555C1HR51DB01#	
			0.56pF	±0.05pF	GCQ1555C1HR56WB01#	
				±0.1pF	GCQ1555C1HR56BB01#	
				±0.25pF	GCQ1555C1HR56CB01#	
				±0.5pF	GCQ1555C1HR56DB01#	
			0.60pF	±0.05pF	GCQ1555C1HR60WB01#	
				±0.1pF	GCQ1555C1HR60BB01#	
				±0.25pF	GCQ1555C1HR60CB01#	
				±0.5pF	GCQ1555C1HR60DB01#	
			0.62pF	±0.05pF	GCQ1555C1HR62WB01#	
				±0.1pF	GCQ1555C1HR62BB01#	
				±0.25pF	GCQ1555C1HR62CB01#	
				±0.5pF	GCQ1555C1HR62DB01#	
			0.68pF	±0.05pF	GCQ1555C1HR68WB01#	
				±0.1pF	GCQ1555C1HR68BB01#	
				±0.25pF	GCQ1555C1HR68CB01#	
				±0.5pF	GCQ1555C1HR68DB01#	
			0.70pF	±0.05pF	GCQ1555C1HR70WB01#	
				±0.1pF	GCQ1555C1HR70BB01#	
				±0.25pF	GCQ1555C1HR70CB01#	
				±0.5pF	GCQ1555C1HR70DB01#	
			0.75pF	±0.05pF	GCQ1555C1HR75WB01#	
				±0.1pF	GCQ1555C1HR75BB01#	
				±0.25pF	GCQ1555C1HR75CB01#	
				±0.5pF	GCQ1555C1HR75DB01#	
			0.80pF	±0.05pF	GCQ1555C1HR80WB01#	
				±0.1pF	GCQ1555C1HR80BB01#	
				±0.25pF	GCQ1555C1HR80CB01#	
				±0.5pF	GCQ1555C1HR80DB01#	
			0.82pF	±0.05pF	GCQ1555C1HR82WB01#	
				±0.1pF	GCQ1555C1HR82BB01#	
				±0.25pF	GCQ1555C1HR82CB01#	
				±0.5pF	GCQ1555C1HR82DB01#	
			0.85pF	· ·	GCQ1555C1HR85WB01#	
			0.90pF		GCQ1555C1HR90WB01#	
				±0.1pF	GCQ1555C1HR90BB01#	
					GCQ1555C1HR90CB01#	
					GCQ1555C1HR90DB01#	
			0.91pF	±0.05pF	GCQ1555C1HR91WB01#	
					GCQ1555C1HR91BB01#	
					GCQ1555C1HR91CB01#	
					GCQ1555C1HR91DB01#	
			0.95pF		GCQ1555C1HR95WB01#	
			1.0pF		GCQ1555C1H1R0WB01#	
					GCQ1555C1H1R0BB01#	
					GCQ1555C1H1R0CB01#	
					GCQ1555C1H1R0DB01#	
			1.1pF		GCQ1555C1H1R1WB01#	
				-	GCQ1555C1H1R1BB01#	
				-	GCQ1555C1H1R1CB01#	
			1 2-5		GCQ1555C1H1R1DB01#	
			1.2pF	-	GCQ1555C1H1R2WB01#	
				±0.1pF	GCQ1555C1H1R2BB01#	<u> </u>

Part number # indicates the package specification code.

KCM Series

## GCQ Series Temperature Compensating Type Part Number List

(→ 1.0×	0.5mm	1)			
T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number
0.55mm	50Vdc	COG	1.2pF	±0.25pF	GCQ1555C1H1R2CB01#
				±0.5pF	GCQ1555C1H1R2DB01#
			1.3pF	±0.05pF	GCQ1555C1H1R3WB01#
				±0.1pF	GCQ1555C1H1R3BB01#
				±0.25pF	GCQ1555C1H1R3CB01#
				±0.5pF	GCQ1555C1H1R3DB01#
			1.4pF	±0.05pF	GCQ1555C1H1R4WB01#
				±0.1pF	GCQ1555C1H1R4BB01#
				±0.25pF	GCQ1555C1H1R4CB01#
				±0.5pF	GCQ1555C1H1R4DB01#
			1.5pF	±0.05pF	GCQ1555C1H1R5WB01#
				±0.1pF	GCQ1555C1H1R5BB01#
				±0.25pF	GCQ1555C1H1R5CB01#
				±0.5pF	GCQ1555C1H1R5DB01#
			1.6pF	±0.05pF	GCQ1555C1H1R6WB01#
				±0.1pF	GCQ1555C1H1R6BB01#
				±0.25pF	GCQ1555C1H1R6CB01#
				±0.5pF	GCQ1555C1H1R6DB01#
			1.7pF	±0.05pF	GCQ1555C1H1R7WB01#
				±0.1pF	GCQ1555C1H1R7BB01#
				±0.25pF	GCQ1555C1H1R7CB01#
				±0.5pF	GCQ1555C1H1R7DB01#
			1.8pF	±0.05pF	GCQ1555C1H1R8WB01#
				±0.1pF	GCQ1555C1H1R8BB01#
				-	GCQ1555C1H1R8CB01#
				· ·	GCQ1555C1H1R8DB01#
			1.9pF		GCQ1555C1H1R9WB01#
				<u> </u>	GCQ1555C1H1R9BB01#
					GCQ1555C1H1R9CB01# GCQ1555C1H1R9DB01#
			2.0pF		GCQ1555C1H2R0WB01#
			2.001		GCQ1555C1H2R0BB01#
					GCQ1555C1H2R0CB01#
					GCQ1555C1H2R0DB01#
			2.1pF	· ·	GCQ1555C1H2R1WB01#
			·	<u>_</u>	GCQ1555C1H2R1BB01#
				±0.25pF	GCQ1555C1H2R1CB01#
				±0.5pF	GCQ1555C1H2R1DB01#
			2.2pF	±0.05pF	GCQ1555C1H2R2WB01#
				±0.1pF	GCQ1555C1H2R2BB01#
				±0.25pF	GCQ1555C1H2R2CB01#
				±0.5pF	GCQ1555C1H2R2DB01#
			2.3pF	±0.05pF	GCQ1555C1H2R3WB01#
				±0.1pF	GCQ1555C1H2R3BB01#
				±0.25pF	GCQ1555C1H2R3CB01#
				±0.5pF	GCQ1555C1H2R3DB01#
			2.4pF	±0.05pF	GCQ1555C1H2R4WB01#
				±0.1pF	GCQ1555C1H2R4BB01#
				<u> </u>	GCQ1555C1H2R4CB01#
					GCQ1555C1H2R4DB01#
			2.5pF	-	GCQ1555C1H2R5WB01#
					GCQ1555C1H2R5BB01#
				-	GCQ1555C1H2R5CB01#
				±0.5pF	GCQ1555C1H2R5DB01#

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number	
0.55mm	50Vdc	COG	2.6pF	±0.05pF	GCQ1555C1H2R6WB01#	
					GCQ1555C1H2R6BB01#	
					GCQ1555C1H2R6CB01#	
					GCQ1555C1H2R6DB01#	
			2.7pF		GCQ1555C1H2R7WB01#	
					GCQ1555C1H2R7BB01#	
					GCQ1555C1H2R7CB01#	
					GCQ1555C1H2R7DB01#	
			2.8pF	±0.05pF	GCQ1555C1H2R8WB01#	
				±0.1pF	GCQ1555C1H2R8BB01#	
				±0.25pF	GCQ1555C1H2R8CB01#	
				±0.5pF	GCQ1555C1H2R8DB01#	
			2.9pF	±0.05pF	GCQ1555C1H2R9WB01#	
				±0.1pF	GCQ1555C1H2R9BB01#	
				±0.25pF	GCQ1555C1H2R9CB01#	
				±0.5pF	GCQ1555C1H2R9DB01#	
			3.0pF	±0.05pF	GCQ1555C1H3R0WB01#	
				±0.1pF	GCQ1555C1H3R0BB01#	
				±0.25pF	GCQ1555C1H3R0CB01#	
				±0.5pF	GCQ1555C1H3R0DB01#	
			3.1pF	±0.05pF	GCQ1555C1H3R1WB01#	
				±0.1pF	GCQ1555C1H3R1BB01#	
				±0.25pF	GCQ1555C1H3R1CB01#	
				±0.5pF	GCQ1555C1H3R1DB01#	
			3.2pF	±0.05pF	GCQ1555C1H3R2WB01#	
				±0.1pF	GCQ1555C1H3R2BB01#	
				±0.25pF	GCQ1555C1H3R2CB01#	
				±0.5pF	GCQ1555C1H3R2DB01#	
			3.3pF	±0.05pF	GCQ1555C1H3R3WB01#	
				±0.1pF	GCQ1555C1H3R3BB01#	
				±0.25pF	GCQ1555C1H3R3CB01#	
				±0.5pF	GCQ1555C1H3R3DB01#	
			3.4pF	±0.05pF	GCQ1555C1H3R4WB01#	
				±0.1pF	GCQ1555C1H3R4BB01#	
				±0.25pF	GCQ1555C1H3R4CB01#	
				±0.5pF	GCQ1555C1H3R4DB01#	
			3.5pF	±0.05pF	GCQ1555C1H3R5WB01#	
				±0.1pF	GCQ1555C1H3R5BB01#	
				±0.25pF	GCQ1555C1H3R5CB01#	
				±0.5pF	GCQ1555C1H3R5DB01#	
			3.6pF	±0.05pF	GCQ1555C1H3R6WB01#	
				±0.1pF	GCQ1555C1H3R6BB01#	
				±0.25pF	GCQ1555C1H3R6CB01#	
				±0.5pF	GCQ1555C1H3R6DB01#	
			3.7pF	±0.05pF	GCQ1555C1H3R7WB01#	
					GCQ1555C1H3R7BB01#	
					GCQ1555C1H3R7CB01#	
					GCQ1555C1H3R7DB01#	
			3.8pF		GCQ1555C1H3R8WB01#	
				-	GCQ1555C1H3R8BB01#	
					GCQ1555C1H3R8CB01#	
			<b>-</b> -		GCQ1555C1H3R8DB01#	
			3.9pF	-	GCQ1555C1H3R9WB01#	
				±0.1pF	GCQ1555C1H3R9BB01#	

# GCQ Series Temperature Compensating Type Representation Part Number List

(→ 1.0	×0.5mm	1)				
T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number	
0.55mm	50Vdc	COG	3.9pF	±0.25pF	GCQ1555C1H3R9CB01#	
				±0.5pF	GCQ1555C1H3R9DB01#	
			4.0pF	±0.05pF	GCQ1555C1H4R0WB01#	

T max.	Rated Voltage	TC Code	Сар.	Tol.	Part Number	
0.55mm	50Vdc	COG	3.9pF	±0.25pF	GCQ1555C1H3R9CB01#	
				±0.5pF	GCQ1555C1H3R9DB01#	
			4.0pF	±0.05pF	GCQ1555C1H4R0WB01#	
				±0.1pF	GCQ1555C1H4R0BB01#	
				±0.25pF	GCQ1555C1H4R0CB01#	
				±0.5pF	GCQ1555C1H4R0DB01#	
			4.1pF	±0.05pF	GCQ1555C1H4R1WB01#	
				±0.1pF	GCQ1555C1H4R1BB01#	
				±0.25pF	GCQ1555C1H4R1CB01#	
				±0.5pF	GCQ1555C1H4R1DB01#	
			4.2pF	±0.05pF	GCQ1555C1H4R2WB01#	
				±0.1pF	GCQ1555C1H4R2BB01#	
				±0.25pF	GCQ1555C1H4R2CB01#	
				±0.5pF	GCQ1555C1H4R2DB01#	
			4.3pF	±0.05pF	GCQ1555C1H4R3WB01#	
				±0.1pF	GCQ1555C1H4R3BB01#	
				±0.25pF	GCQ1555C1H4R3CB01#	
				±0.5pF	GCQ1555C1H4R3DB01#	
			4.4pF	±0.05pF	GCQ1555C1H4R4WB01#	
				±0.1pF	GCQ1555C1H4R4BB01#	
				±0.25pF	GCQ1555C1H4R4CB01#	
				±0.5pF	GCQ1555C1H4R4DB01#	
			4.5pF	±0.05pF	GCQ1555C1H4R5WB01#	
				±0.1pF	GCQ1555C1H4R5BB01#	
				±0.25pF	GCQ1555C1H4R5CB01#	
				±0.5pF	GCQ1555C1H4R5DB01#	
			4.6pF	±0.05pF	GCQ1555C1H4R6WB01#	
				±0.1pF	GCQ1555C1H4R6BB01#	
				±0.25pF	GCQ1555C1H4R6CB01#	
				±0.5pF	GCQ1555C1H4R6DB01#	
			4.7pF	±0.05pF	GCQ1555C1H4R7WB01#	
				±0.1pF	GCQ1555C1H4R7BB01#	
				±0.25pF	GCQ1555C1H4R7CB01#	
				±0.5pF	GCQ1555C1H4R7DB01#	
			4.8pF	±0.05pF	GCQ1555C1H4R8WB01#	
				±0.1pF	GCQ1555C1H4R8BB01#	
				±0.25pF	GCQ1555C1H4R8CB01#	
				±0.5pF	GCQ1555C1H4R8DB01#	
			4.9pF	±0.05pF	GCQ1555C1H4R9WB01#	
				±0.1pF	GCQ1555C1H4R9BB01#	
				±0.25pF	GCQ1555C1H4R9CB01#	
				±0.5pF	GCQ1555C1H4R9DB01#	
			5.0pF	±0.05pF	GCQ1555C1H5R0WB01#	
				±0.1pF	GCQ1555C1H5R0BB01#	
				±0.25pF	GCQ1555C1H5R0CB01#	
				±0.5pF	GCQ1555C1H5R0DB01#	
			5.1pF	±0.05pF	GCQ1555C1H5R1WB01#	
				±0.1pF	GCQ1555C1H5R1BB01#	
				±0.25pF	GCQ1555C1H5R1CB01#	
				±0.5pF	GCQ1555C1H5R1DB01#	
			5.2pF	±0.05pF	GCQ1555C1H5R2WB01#	
				±0.1pF	GCQ1555C1H5R2BB01#	
				±0.25pF	GCQ1555C1H5R2CB01#	
				±0.5pF	GCQ1555C1H5R2DB01#	

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number	
0.55mm	50Vdc	COG	5.3pF	±0.05pF	GCQ1555C1H5R3WB01#	
				±0.1pF	GCQ1555C1H5R3BB01#	
				±0.25pF	GCQ1555C1H5R3CB01#	
				±0.5pF	GCQ1555C1H5R3DB01#	
			5.4pF	±0.05pF	GCQ1555C1H5R4WB01#	
				±0.1pF	GCQ1555C1H5R4BB01#	
				±0.25pF	GCQ1555C1H5R4CB01#	
				±0.5pF	GCQ1555C1H5R4DB01#	
			5.5pF	±0.05pF	GCQ1555C1H5R5WB01#	
				±0.1pF	GCQ1555C1H5R5BB01#	
				±0.25pF	GCQ1555C1H5R5CB01#	
				±0.5pF	GCQ1555C1H5R5DB01#	
			5.6pF	±0.05pF	GCQ1555C1H5R6WB01#	
				±0.1pF	GCQ1555C1H5R6BB01#	
				±0.25pF	GCQ1555C1H5R6CB01#	
				±0.5pF	GCQ1555C1H5R6DB01#	
			5.7pF	±0.05pF	GCQ1555C1H5R7WB01#	
				±0.1pF	GCQ1555C1H5R7BB01#	
				±0.25pF	GCQ1555C1H5R7CB01#	
				±0.5pF	GCQ1555C1H5R7DB01#	
			5.8pF		GCQ1555C1H5R8WB01#	
				-	GCQ1555C1H5R8BB01#	
					GCQ1555C1H5R8CB01#	
					GCQ1555C1H5R8DB01#	
			5.9pF		GCQ1555C1H5R9WB01#	
				-	GCQ1555C1H5R9BB01#	
					GCQ1555C1H5R9CB01#	
			6.05		GCQ1555C1H5R9DB01#	
			6.0pF		GCQ1555C1H6R0WB01# GCQ1555C1H6R0BB01#	
					GCQ1555C1H6R0CB01#	
					GCQ1555C1H6R0DB01#	
			6.1pF		GCQ1555C1H6R1WB01#	
			0.26.		GCQ1555C1H6R1BB01#	
					GCQ1555C1H6R1CB01#	
					GCQ1555C1H6R1DB01#	
			6.2pF		GCQ1555C1H6R2WB01#	
				·	GCQ1555C1H6R2BB01#	
				-	GCQ1555C1H6R2CB01#	
					GCQ1555C1H6R2DB01#	
			6.3pF	±0.05pF	GCQ1555C1H6R3WB01#	
				±0.1pF	GCQ1555C1H6R3BB01#	
				±0.25pF	GCQ1555C1H6R3CB01#	
				±0.5pF	GCQ1555C1H6R3DB01#	
			6.4pF	±0.05pF	GCQ1555C1H6R4WB01#	
				±0.1pF	GCQ1555C1H6R4BB01#	
				±0.25pF	GCQ1555C1H6R4CB01#	
				±0.5pF	GCQ1555C1H6R4DB01#	
			6.5pF	±0.05pF	GCQ1555C1H6R5WB01#	
				±0.1pF	GCQ1555C1H6R5BB01#	
				±0.25pF	GCQ1555C1H6R5CB01#	
				±0.5pF	GCQ1555C1H6R5DB01#	
			6.6pF	±0.05pF	GCQ1555C1H6R6WB01#	
				±0.1pF	GCQ1555C1H6R6BB01#	

GCM Series

GCE Series

KCM Series

GCB Series

## GCQ Series Temperature Compensating Type Part Number List

(→ 1.0×0.5mm)								
T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number			
0.55mm	50Vdc	COG	6.6pF	±0.25pF	GCQ1555C1H6R6CB01#			
				±0.5pF	GCQ1555C1H6R6DB01#			
			6.7pF	±0.05pF	GCQ1555C1H6R7WB01#			
				±0.1pF	GCQ1555C1H6R7BB01#			
				±0.25pF	GCQ1555C1H6R7CB01#			
				±0.5pF	GCQ1555C1H6R7DB01#			
			6.8pF	±0.05pF	GCQ1555C1H6R8WB01#			
				±0.1pF	GCQ1555C1H6R8BB01#			
				±0.25pF	GCQ1555C1H6R8CB01#			
				±0.5pF	GCQ1555C1H6R8DB01#			
			6.9pF	±0.05pF	GCQ1555C1H6R9WB01#			
				±0.1pF	GCQ1555C1H6R9BB01#			
				±0.25pF	GCQ1555C1H6R9CB01#			
				±0.5pF	GCQ1555C1H6R9DB01#			
			7.0pF	±0.05pF	GCQ1555C1H7R0WB01#			
				±0.1pF	GCQ1555C1H7R0BB01#			
				±0.25pF	GCQ1555C1H7R0CB01#			
				±0.5pF	GCQ1555C1H7R0DB01#			
			7.1pF	· ·	GCQ1555C1H7R1WB01#			
				±0.1pF	GCQ1555C1H7R1BB01#			
				-	GCQ1555C1H7R1CB01#			
					GCQ1555C1H7R1DB01#			
			7.2pF	-	GCQ1555C1H7R2WB01#			
				-	GCQ1555C1H7R2BB01#			
				· ·	GCQ1555C1H7R2CB01#			
			7 255	±0.5pF	GCQ1555C1H7R2DB01#			
			7.3pF	· ·	GCQ1555C1H7R3WB01# GCQ1555C1H7R3BB01#			
					GCQ1555C1H7R3CB01#			
				<u> </u>	GCQ1555C1H7R3DB01#			
			7.4pF		GCQ1555C1H7R4WB01#			
			•	±0.1pF	GCQ1555C1H7R4BB01#			
					GCQ1555C1H7R4CB01#			
				±0.5pF	GCQ1555C1H7R4DB01#			
			7.5pF	±0.05pF	GCQ1555C1H7R5WB01#			
				±0.1pF	GCQ1555C1H7R5BB01#			
				±0.25pF	GCQ1555C1H7R5CB01#			
				±0.5pF	GCQ1555C1H7R5DB01#			
			7.6pF	±0.05pF	GCQ1555C1H7R6WB01#			
				±0.1pF	GCQ1555C1H7R6BB01#			
				±0.25pF	GCQ1555C1H7R6CB01#			
				±0.5pF	GCQ1555C1H7R6DB01#			
			7.7pF	±0.05pF	GCQ1555C1H7R7WB01#			
				±0.1pF	GCQ1555C1H7R7BB01#			
				±0.25pF	GCQ1555C1H7R7CB01#			
				±0.5pF	GCQ1555C1H7R7DB01#			
			7.8pF		GCQ1555C1H7R8WB01#			
					GCQ1555C1H7R8BB01#			
					GCQ1555C1H7R8CB01#			
			<b>-</b>		GCQ1555C1H7R8DB01#			
			7.9pF	· ·	GCQ1555C1H7R9WB01#			
				-	GCQ1555C1H7R9BB01#			
				-	GCQ1555C1H7R9CB01#			
				±0.5pF	GCQ1555C1H7R9DB01#			

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number	
0.55mm	50Vdc	COG	8.0pF	±0.05pF	GCQ1555C1H8R0WB01#	
				±0.1pF	GCQ1555C1H8R0BB01#	
				±0.25pF	GCQ1555C1H8R0CB01#	
				±0.5pF	GCQ1555C1H8R0DB01#	
			8.1pF	±0.05pF	GCQ1555C1H8R1WB01#	
				±0.1pF	GCQ1555C1H8R1BB01#	
				±0.25pF	GCQ1555C1H8R1CB01#	
				±0.5pF	GCQ1555C1H8R1DB01#	
			8.2pF	±0.05pF	GCQ1555C1H8R2WB01#	
				±0.1pF	GCQ1555C1H8R2BB01#	
				±0.25pF	GCQ1555C1H8R2CB01#	
				±0.5pF	GCQ1555C1H8R2DB01#	
			8.3pF	±0.05pF	GCQ1555C1H8R3WB01#	
				±0.1pF	GCQ1555C1H8R3BB01#	
				±0.25pF	GCQ1555C1H8R3CB01#	
				±0.5pF	GCQ1555C1H8R3DB01#	
			8.4pF	±0.05pF	GCQ1555C1H8R4WB01#	
				±0.1pF	GCQ1555C1H8R4BB01#	
				±0.25pF	GCQ1555C1H8R4CB01#	
				±0.5pF	GCQ1555C1H8R4DB01#	
			8.5pF	±0.05pF	GCQ1555C1H8R5WB01#	
				±0.1pF	GCQ1555C1H8R5BB01#	
				±0.25pF	GCQ1555C1H8R5CB01#	
				±0.5pF	GCQ1555C1H8R5DB01#	
			8.6pF	±0.05pF	GCQ1555C1H8R6WB01#	
				±0.1pF	GCQ1555C1H8R6BB01#	
				±0.25pF	GCQ1555C1H8R6CB01#	
				±0.5pF	GCQ1555C1H8R6DB01#	
			8.7pF	±0.05pF	GCQ1555C1H8R7WB01#	
				±0.1pF	GCQ1555C1H8R7BB01#	
				±0.25pF	GCQ1555C1H8R7CB01#	
					GCQ1555C1H8R7DB01#	
			8.8pF		GCQ1555C1H8R8WB01#	
					GCQ1555C1H8R8BB01#	
					GCQ1555C1H8R8CB01#	
					GCQ1555C1H8R8DB01#	
			8.9pF		GCQ1555C1H8R9WB01#	
					GCQ1555C1H8R9BB01#	
					GCQ1555C1H8R9CB01#	
					GCQ1555C1H8R9DB01#	
			9.0pF		GCQ1555C1H9R0WB01#	
					GCQ1555C1H9R0BB01#	
					GCQ1555C1H9R0CB01#	
					GCQ1555C1H9R0DB01#	
			9.1pF	-	GCQ1555C1H9R1WB01#	
					GCQ1555C1H9R1BB01#	
				· ·	GCQ1555C1H9R1CB01#	
			0.2-5		GCQ1555C1H9R1DB01#	
			9.2pF	· -	GCQ1555C1H9R2WB01#	
					GCQ1555C1H9R2BB01#	
				-	GCQ1555C1H9R2CB01#	<u> </u>
			0.2-5	•	GCQ1555C1H9R2DB01#	
			9.3pF	-	GCQ1555C1H9R3WB01#	
				±0.1pF	GCQ1555C1H9R3BB01#	<u> </u>

Part number # indicates the package specification code.

## GCQ Series Temperature Compensating Type Representation Part Number List

(→ 1.0×	0.5mm	1)			
T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number
0.55mm	50Vdc	COG	9.3pF	<u> </u>	GCQ1555C1H9R3CB01#
				±0.5pF	GCQ1555C1H9R3DB01#
			9.4pF	±0.05pF	GCQ1555C1H9R4WB01#
				±0.1pF	GCQ1555C1H9R4BB01#
				±0.25pF	GCQ1555C1H9R4CB01#
				±0.5pF	GCQ1555C1H9R4DB01#
			9.5pF	±0.05pF	GCQ1555C1H9R5WB01#
				±0.1pF	GCQ1555C1H9R5BB01#
				±0.25pF	GCQ1555C1H9R5CB01#
				±0.5pF	GCQ1555C1H9R5DB01#
			9.6pF	±0.05pF	GCQ1555C1H9R6WB01#
				±0.1pF	GCQ1555C1H9R6BB01#
				±0.25pF	GCQ1555C1H9R6CB01#
				±0.5pF	GCQ1555C1H9R6DB01#
			9.7pF	±0.05pF	GCQ1555C1H9R7WB01#
				±0.1pF	GCQ1555C1H9R7BB01#
				±0.25pF	GCQ1555C1H9R7CB01#
				±0.5pF	GCQ1555C1H9R7DB01#
			9.8pF	±0.05pF	GCQ1555C1H9R8WB01#
				±0.1pF	GCQ1555C1H9R8BB01#
				±0.25pF	GCQ1555C1H9R8CB01#
				±0.5pF	GCQ1555C1H9R8DB01#
			9.9pF	±0.05pF	GCQ1555C1H9R9WB01#
				±0.1pF	GCQ1555C1H9R9BB01#
				±0.25pF	GCQ1555C1H9R9CB01#
				±0.5pF	GCQ1555C1H9R9DB01#
			10pF	±1%	GCQ1555C1H100FB01#
				±2%	GCQ1555C1H100GB01#
				±2.5%	GCQ1555C1H100RB01#
				±5%	GCQ1555C1H100JB01#
			11pF	±1%	GCQ1555C1H110FB01#
				±2%	GCQ1555C1H110GB01#
				±5%	GCQ1555C1H110JB01#
			12pF	±1%	GCQ1555C1H120FB01#
				±2%	GCQ1555C1H120GB01#
				±5%	GCQ1555C1H120JB01#
			13pF	±1%	GCQ1555C1H130FB01#
				±2%	GCQ1555C1H130GB01#
				±5%	GCQ1555C1H130JB01#
			14pF	±1%	GCQ1555C1H140FB01#
				±2%	GCQ1555C1H140GB01#
				±5%	GCQ1555C1H140JB01#
			15pF	±1%	GCQ1555C1H150FB01#
				±2%	GCQ1555C1H150GB01#
				±5%	GCQ1555C1H150JB01#
			16pF	±1%	GCQ1555C1H160FB01#
				±2%	GCQ1555C1H160GB01#
				±5%	GCQ1555C1H160JB01#
			17pF	±1%	GCQ1555C1H170FB01#
				±2%	GCQ1555C1H170GB01#
				±5%	GCQ1555C1H170JB01#
			18pF	±1%	GCQ1555C1H180FB01#
				±2%	GCQ1555C1H180GB01#
				±5%	GCQ1555C1H180JB01#
				l .	

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number	
0.55mm	50Vdc	COG	19pF	±1%	GCQ1555C1H190FB01#	
				±2%	GCQ1555C1H190GB01#	
				±5%	GCQ1555C1H190JB01#	
			20pF	±1%	GCQ1555C1H200FB01#	
				±2%	GCQ1555C1H200GB01#	
				±5%	GCQ1555C1H200JB01#	
			22pF	±1%	GCQ1555C1H220FB01#	
				±2%	GCQ1555C1H220GB01#	
				±5%	GCQ1555C1H220JB01#	
			24pF	±1%	GCQ1555C1H240FB01#	
				±2%	GCQ1555C1H240GB01#	
				±5%	GCQ1555C1H240JB01#	
			27pF	±1%	GCQ1555C1H270FB01#	
				±2%	GCQ1555C1H270GB01#	
				±5%	GCQ1555C1H270JB01#	
			30pF	±1%	GCQ1555C1H300FB01#	
				±2%	GCQ1555C1H300GB01#	
				±5%	GCQ1555C1H300JB01#	
			33pF	±1%	GCQ1555C1H330FB01#	
				±2%	GCQ1555C1H330GB01#	
				±5%	GCQ1555C1H330JB01#	
			36pF	±1%	GCQ1555C1H360FB01#	
				±2%	GCQ1555C1H360GB01#	
				±5%	GCQ1555C1H360JB01#	
			39pF	±1%	GCQ1555C1H390FB01#	
				±2%	GCQ1555C1H390GB01#	
				±5%	GCQ1555C1H390JB01#	
			43pF	±1%	GCQ1555C1H430FB01#	
				±2%	GCQ1555C1H430GB01#	
				±5%	GCQ1555C1H430JB01#	
			47pF	±1%	GCQ1555C1H470FB01#	
				±2%	GCQ1555C1H470GB01#	
				±5%	GCQ1555C1H470JB01#	

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MLSC Design Chip Multilayer Ceramic Capacitors for Automotive

## GCD Series







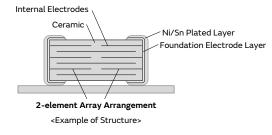


## Prevents momentary dielectric breakdown by a 2-element array structure!

#### **Features**

Prevents momentary dielectric breakdown by a 2-element array structure!

This product consists of 2 elements arranged in 1 capacitor. It is structured so that even when 1 element is shorted, the other capacitor element will not short.

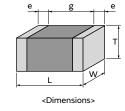


This AEC-Q200 conforming product is ideal for the battery lines of automotive.

Space can be reduced in battery lines where 2 capacitors are arranged in an array.

### Specifications

Size	1.6×0.8mm to 2.0×1.25mm
Rated Voltage	16Vdc to 100Vdc
Capacitance	1000pF to 0.47μF
Main Applications	Battery Lines and Powertrains for automotive



GCM Series

## GCD Series High Dielectric Constant Type 🚟 🐯 Part Number List



#### 1.6×0.8mm

1.6×0.	8mm					
T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number	
0.9mm	100Vdc	X7R	1000pF	±10%	GCD188R72A102KA01#	_
				±20%	GCD188R72A102MA01#	_
			1200pF	±10%	GCD188R72A122KA01#	_
				±20%	GCD188R72A122MA01#	_
			1500pF	±10%	GCD188R72A152KA01#	_
				±20%	GCD188R72A152MA01#	_
			1800pF	±10%	GCD188R72A182KA01#	_
				±20%	GCD188R72A182MA01#	_
			2200pF	±10%	GCD188R72A222KA01#	_
				±20%	GCD188R72A222MA01#	
			2700pF	±10%	GCD188R72A272KA01#	_
				±20%	GCD188R72A272MA01#	
			3300pF	±10%	GCD188R72A332KA01#	_
				±20%	GCD188R72A332MA01#	_
			3900pF	±10%	GCD188R72A392KA01#	_
				±20%	GCD188R72A392MA01#	_
			4700pF	±10%	GCD188R72A472KA01#	_
				±20%	GCD188R72A472MA01#	_
			5600pF	±10%	GCD188R72A562KA01#	_
				±20%	GCD188R72A562MA01#	
			6800pF	±10%	GCD188R72A682KA01#	_
				±20%	GCD188R72A682MA01#	_
			8200pF	±10%	GCD188R72A822KA01#	_
				±20%	GCD188R72A822MA01#	_
			10000pF	±10%	GCD188R72A103KA01#	
				±20%	GCD188R72A103MA01#	
			12000pF	±10%	GCD188R72A123KA01#	
				±20%	GCD188R72A123MA01#	
			15000pF	±10%	GCD188R72A153KA01#	
				±20%	GCD188R72A153MA01#	
			18000pF	±10%	GCD188R72A183KA01#	_
				±20%	GCD188R72A183MA01#	_
			22000pF	±10%	GCD188R72A223KA01#	
				±20%	GCD188R72A223MA01#	
	50Vdc	X7R	1000pF	±10%	GCD188R71H102KA01#	
				±20%	GCD188R71H102MA01#	_
			1200pF	±10%	GCD188R71H122KA01#	_
				±20%	GCD188R71H122MA01#	
			1500pF	±10%	GCD188R71H152KA01#	
				±20%	GCD188R71H152MA01#	_
			1800pF	±10%	GCD188R71H182KA01#	_
				±20%	GCD188R71H182MA01#	_
			2200pF	±10%	GCD188R71H222KA01#	_
				±20%	GCD188R71H222MA01#	_
			2700pF	±10%	GCD188R71H272KA01#	_
				±20%	GCD188R71H272MA01#	_
			3300pF	±10%	GCD188R71H332KA01#	_
				±20%	GCD188R71H332MA01#	_
			3900pF	±10%	GCD188R71H392KA01#	_
				±20%	GCD188R71H392MA01#	_
			4700pF	±10%	GCD188R71H472KA01#	_
				±20%	GCD188R71H472MA01#	

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number	
0.9mm	50Vdc	X7R	5600pF	±10%	GCD188R71H562KA01#	
				±20%	GCD188R71H562MA01#	
			6800pF	±10%	GCD188R71H682KA01#	
				±20%	GCD188R71H682MA01#	
			8200pF	±10%	GCD188R71H822KA01#	
				±20%	GCD188R71H822MA01#	
			10000pF	±10%	GCD188R71H103KA01#	
				±20%	GCD188R71H103MA01#	
			12000pF	±10%	GCD188R71H123KA01#	
				±20%	GCD188R71H123MA01#	
			15000pF	±10%	GCD188R71H153KA01#	
				±20%	GCD188R71H153MA01#	
			18000pF	±10%	GCD188R71H183KA01#	
				±20%	GCD188R71H183MA01#	
			22000pF	±10%	GCD188R71H223KA01#	
				±20%	GCD188R71H223MA01#	
	25Vdc	X7R	27000pF	±10%	GCD188R71E273KA01#	
				±20%	GCD188R71E273MA01#	
			33000pF	±10%	GCD188R71E333KA01#	
				±20%	GCD188R71E333MA01#	
			39000pF	±10%	GCD188R71E393KA01#	
				±20%	GCD188R71E393MA01#	
			47000pF	±10%	GCD188R71E473KA01#	
				±20%	GCD188R71E473MA01#	

### 2.0×1.25mm

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number	
1.4mm	100Vdc	X7R	27000pF	±10%	GCD21BR72A273KA01#	
				±20%	GCD21BR72A273MA01#	
			33000pF	±10%	GCD21BR72A333KA01#	
				±20%	GCD21BR72A333MA01#	
			39000pF	±10%	GCD21BR72A393KA01#	
				±20%	GCD21BR72A393MA01#	
			47000pF	±10%	GCD21BR72A473KA01#	
				±20%	GCD21BR72A473MA01#	
			56000pF	±10%	GCD21BR72A563KA01#	
				±20%	GCD21BR72A563MA01#	
			68000pF	±10%	GCD21BR72A683KA01#	
				±20%	GCD21BR72A683MA01#	
			82000pF	±10%	GCD21BR72A823KA01#	
				±20%	GCD21BR72A823MA01#	
			0.10μF	±10%	GCD21BR72A104KA01#	
				±20%	GCD21BR72A104MA01#	
	50Vdc	X7R	27000pF	±10%	GCD21BR71H273KA01#	
				±20%	GCD21BR71H273MA01#	
			33000pF	±10%	GCD21BR71H333KA01#	
				±20%	GCD21BR71H333MA01#	
			39000pF	±10%	GCD21BR71H393KA01#	
				±20%	GCD21BR71H393MA01#	
			47000pF	±10%	GCD21BR71H473KA01#	
				±20%	GCD21BR71H473MA01#	
			56000pF	±10%	GCD21BR71H563KA01#	
			Dart num	bor#indi	astas the package specification	aada

Part number # indicates the package specification code.







(→ 2.0×1.25mm)

T max.	Rated Voltage	TC Code	Сар.	Tol.	Part Number	
1.4mm	50Vdc	X7R	56000pF	±20%	GCD21BR71H563MA01#	
			68000pF	±10%	GCD21BR71H683KA01#	
				±20%	GCD21BR71H683MA01#	
			82000pF	±10%	GCD21BR71H823KA01#	
				±20%	GCD21BR71H823MA01#	
			0.10µF	±10%	GCD21BR71H104KA01#	
				±20%	GCD21BR71H104MA01#	
	16Vdc	X7S	0.47µF	±10%	GCD21BC71C474KE01#	

Soft Termination MLSC Design Chip Multilayer Ceramic Capacitors for Automotive

## GCE Series









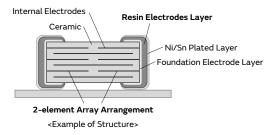


### Further improved safety performance with a combination of a 2-element array structure & resin external electrodes!

#### **Features**

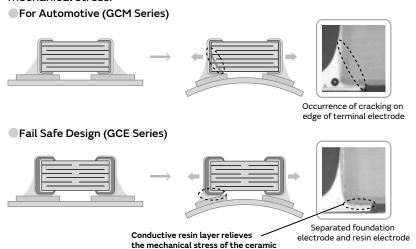
## Avoid instantaneous dielectric breakdown with the 2-element array structure

This product is configured with 2 elements arranged in one capacitor. Even if one element short circuits, the other element in the capacitor does not short.



### Provides additional safety performance in combination with resin electrodes

Adopting resin electrodes as the external electrodes will suppress the occurrence of cracking in the capacitor by mechanical stress.



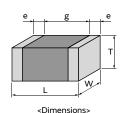
Note: Cracks may occur in the capacitor body if excessive stress beyond the "guaranteed range of board bending strength (\*)" provided in the specifications is applied. Capacitors with cracks in them may cause a drop in insulation resistance, which could lead to a short circuit. (\*) For details on the guaranteed range of board bending strength, check the "Detailed Specification Sheet" on the Product Details Page.

## Ideal for battery lines of on-board applications

Space can be reduced for battery lines, when 2 capacitors are configured in an array.

### Specifications

Size	1.6×0.8mm to 2.0×1.25mm
Rated Voltage	25Vdc to 100Vdc
Capacitance	1000pF to 0.10μF
Main Applications	For automotive, Battery lines, power trains



# GCE Series High Dielectric Constant Type (CONSTANT) Part Number List

#### 1.6×0.8mm

1.6×0	.8mm					
T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number	
0.9mm	100Vdc	X7R	1000pF	±10%	GCE188R72A102KA01#	_
				±20%	GCE188R72A102MA01#	_
			1200pF	±10%	GCE188R72A122KA01#	_
				±20%	GCE188R72A122MA01#	_
			1500pF	±10%	GCE188R72A152KA01#	_
				±20%	GCE188R72A152MA01#	_
			1800pF	±10%	GCE188R72A182KA01#	-
				±20%	GCE188R72A182MA01#	-
			2200pF	±10%	GCE188R72A222KA01#	-
				±20%	GCE188R72A222MA01#	_
			2700pF	±10%	GCE188R72A272KA01#	-
				±20%	GCE188R72A272MA01#	-
			3300pF	±10%	GCE188R72A332KA01#	_
				±20%	GCE188R72A332MA01#	_
			3900pF	±10%	GCE188R72A392KA01#	_
				±20%	GCE188R72A392MA01#	_
			4700pF	±10%	GCE188R72A472KA01#	-
				±20%	GCE188R72A472MA01#	-
			5600pF	±10%	GCE188R72A562KA01#	-
				±20%	GCE188R72A562MA01#	-
			6800pF	±10%	GCE188R72A682KA01#	-
				±20%	GCE188R72A682MA01#	-
			8200pF	±10%	GCE188R72A822KA01#	-
				±20%	GCE188R72A822MA01#	-
			10000pF	±10%	GCE188R72A103KA01#	-
				±20%	GCE188R72A103MA01#	-
			12000pF	±10%	GCE188R72A123KA01#	-
				±20%	GCE188R72A123MA01#	-
			15000pF	±10%	GCE188R72A153KA01#	-
				±20%	GCE188R72A153MA01#	-
			18000pF	±10%	GCE188R72A183KA01#	-
				±20%	GCE188R72A183MA01#	-
			22000pF	±10%	GCE188R72A223KA01#	-
				±20%	GCE188R72A223MA01#	-
	50Vdc	X7R	1000pF	±10%	GCE188R71H102KA01#	-
				±20%	GCE188R71H102MA01#	-
			1200pF	±10%	GCE188R71H122KA01#	-
				±20%	GCE188R71H122MA01#	-
			1500pF	±10%	GCE188R71H152KA01#	-
				±20%	GCE188R71H152MA01#	-
			1800pF	±10%	GCE188R71H182KA01#	-
				±20%	GCE188R71H182MA01#	-
			2200pF	±10%	GCE188R71H222KA01#	-
				±20%	GCE188R71H222MA01#	-
			2700pF	±10%	GCE188R71H272KA01#	-
			'	±20%	GCE188R71H272MA01#	-
			3300pF	±10%	GCE188R71H332KA01#	-
			'	±20%	GCE188R71H332MA01#	-
			3900pF	±10%	GCE188R71H392KA01#	-
			'	±20%	GCE188R71H392MA01#	-
			4700pF	±10%	GCE188R71H472KA01#	-
				±20%	GCE188R71H472MA01#	-

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number									
0.9mm	50Vdc	X7R	5600pF	±10%	GCE188R71H562KA01#									
				±20%	GCE188R71H562MA01#									
			6800pF	±10%	GCE188R71H682KA01#									
				±20%	GCE188R71H682MA01#									
			8200pF	±10%	GCE188R71H822KA01#									
				±20%	GCE188R71H822MA01#									
			10000pF	±10%	GCE188R71H103KA01#									
				±20%	GCE188R71H103MA01#									
			12000pF	±10%	GCE188R71H123KA01#									
				±20%	GCE188R71H123MA01#									
											15000pF	±10%	GCE188R71H153KA01#	
					±20%	GCE188R71H153MA01#								
										18000pF	±10%	GCE188R71H183KA01#		
				±20%	GCE188R71H183MA01#									
			22000pF	±10%	GCE188R71H223KA01#									
				±20%	GCE188R71H223MA01#									
	25Vdc	X7R	27000pF	±10%	GCE188R71E273KA01#									
				±20%	GCE188R71E273MA01#									
			33000pF	±10%	GCE188R71E333KA01#									
				±20%	GCE188R71E333MA01#									
				39000	39000pF	±10%	GCE188R71E393KA01#							
				±20%	GCE188R71E393MA01#									
			47000pF	±10%	GCE188R71E473KA01#									
				±20%	GCE188R71E473MA01#									

### 2.0×1.25mm

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number
1.45mm	1.45mm 100Vdc	00Vdc X7R	27000pF	±10%	GCE21BR72A273KA01#
				±20%	GCE21BR72A273MA01#
			33000pF	±10%	GCE21BR72A333KA01#
				±20%	GCE21BR72A333MA01#
			39000pF	±10%	GCE21BR72A393KA01#
				±20%	GCE21BR72A393MA01#
			47000pF	±10%	GCE21BR72A473KA01#
				±20%	GCE21BR72A473MA01#
			56000pF	±10%	GCE21BR72A563KA01#
				±20%	GCE21BR72A563MA01#
			68000pF	±10%	GCE21BR72A683KA01#
				±20%	GCE21BR72A683MA01#
			82000pF	±10%	GCE21BR72A823KA01#
				±20%	GCE21BR72A823MA01#
			0.10µF	±10%	GCE21BR72A104KA01#
				±20%	GCE21BR72A104MA01#
	50Vdc	X7R	27000pF	±10%	GCE21BR71H273KA01#
				±20%	GCE21BR71H273MA01#
			33000pF	±10%	GCE21BR71H333KA01#
				±20%	GCE21BR71H333MA01#
			39000pF	±10%	GCE21BR71H393KA01#
				±20%	GCE21BR71H393MA01#
			47000pF	±10%	GCE21BR71H473KA01#
				±20%	GCE21BR71H473MA01#
			56000pF	±10%	GCE21BR71H563KA01#
			Part num	ber#indi	cates the package specification code

# GCE Series High Dielectric Constant Type Part Number List

(→ 2.0×1.25mm)

T max.	Rated Voltage	TC Code	Сар.	Tol.	Part Number	
1.45mm	50Vdc	X7R	56000pF	±20%	GCE21BR71H563MA01#	
			68000pF	±10%	GCE21BR71H683KA01#	_
				±20%	GCE21BR71H683MA01#	_
			82000pF	±10%	GCE21BR71H823KA01#	_
				±20%	GCE21BR71H823MA01#	_
			0.10µF	±10%	GCE21BR71H104KA01#	_
				±20%	GCE21BR71H104MA01#	

Series

3 Terminals Low ESL Chip Multilayer Ceramic Capacitors for Automotive

## NFM Series











This is the most suitable Low ESL capacitors for noise measurement and power decoupling of power train and safety equipment.

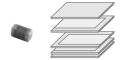
#### **Features**

#### (1) Low ESL

Since the equivalent series inductance (ESL) is low and excellent in high frequency characteristics, this capacitor is suitable for power supply decoupling of high-speed operation electronic equipment.

2-terminal Capacitor

Realizes Ultra low ESL by using a extremely shorter high frequency current path

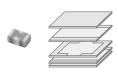


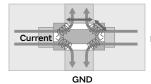


нот × long current distance

X Narrow wiring width







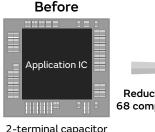
Short current distance

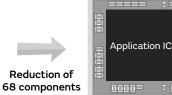
O Wide wiring width

O Four routes formed in parallel

## Contributes to a reduction in the number of components.

The number of components can be reduced by using low ESL capacitors, while maintaining functions equivalent to 2-terminal capacitor.





2-terminal capacitor 100pcs

3-terminal capacitor 32pcs

After

Reference: "How can the mounting area be reduced? - Methods of using low-ESL capacitors-

## Contributes to noise suppression

Example of noise suppression effect | WEB \



Reference: "Basics of Noise CountermeasuresLesson 11 Notes on the Use of Chip 3-Terminal Capacitors" | WEB

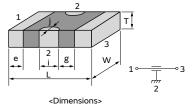


## Compliance with AEC-Q200

Use of 3-terminal low-ESL chip multilayer ceramic capacitors to decouple processor power supplies has recently surged in the automotive market due to demand for high performance processors and smaller electronics. This has accompanied the increase in high-functioning multitasking onboard equipment such as advanced driver assistance systems (ADAS), preventative safety systems for automated vehicles, and in-vehicle infotainment (IVI) systems.

### Specifications

Size	1.6×0.8mm to 3.2×1.6mm
Rated Voltage	6.3Vdc to 100Vdc
Capacitance	220pF to 1.0μF
Main Applications	ADAS processor, Camera sensor, Radar, Lidar



## 

#### 1.6×0.8mm

T max.	Rated Voltage	Cap.	Tol.	Part Number	
0.7mm	16Vdc	1.0µF	±20%	NFM18HC105C1C3#	
	6.3Vdc	1.0µF	±20%	NFM18HC105C0J3#	

#### 2.0×1.25mm

T max.	Rated Voltage	Cap.	Tol.	Part Number	
0.95mm	50Vdc	220pF	±20%	NFM21HC221R1H3#	
		470pF	±20%	NFM21HC471R1H3#	
		1000pF	±20%	NFM21HC102R1H3#	
		2200pF	±20%	NFM21HC222R1H3#	
		22000pF	±20%	NFM21HC223R1H3#	
	16Vdc	1.0µF	±20%	NFM21HC105R1C3#	
	10Vdc	0.10µF	±20%	NFM21HC104R1A3#	
		0.22µF	±20%	NFM21HC224R1A3#	
		0.47µF	±20%	NFM21HC474R1A3#	

#### 3.2×1.6mm

T max.	Rated Voltage	Cap.	Tol.	Part Number	
1.5mm	100Vdc	10000pF	±20%	NFM31HK103R2A3#	D3
	50Vdc	10000pF	±20%	NFM31HK103R1H3#	D3
		15000pF	±20%	NFM31HK153R1H3#	D3
		22000pF	±20%	NFM31HK223R1H3#	<b>D3</b>
		0.10µF	±20%	NFM31HK104R1H3#	

Metal Terminal Type Multilayer Ceramic Capacitors for Automotive

## KCM Series











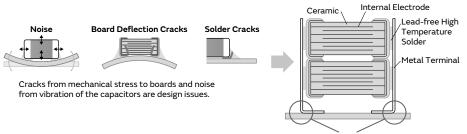
WEB \

## Bonding the metal terminals to external electrodes solves design issues by mounting large size MLCC!

#### **Features**

Bond metal terminals to the external electrodes of chips.

The stress applied to the chip is relieved by the elastic action of the metal terminal.

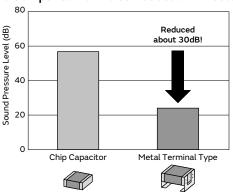


Reduces stress by the elastic action of the metal terminals!

### Substantially reduces noise, board deflection cracks and soldering cracks.

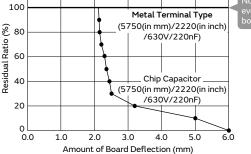
This product is not damaged even with a board deflection of 6 mm. Solder cracks do not occur even with 2,000 cycles of heat stress.

#### Comparison of Noise Reduction Effects



Evaluation Items: 5750 (in mm)/2220 (in inch) size/DC630V/220nF Test Method: DC50V, AC10Vp-p/3kHz Test Board: Glass Epoxy Board (T=1.6mm) Test Quantity: 3pc Distance Between Microphone and Board: 5mm

Note: Results Using Murata's Evaluation Board



Reduces Stress Caused by Board Deflection

## Suppresses Solder Cracks Caused by Heat Stress

Chip Size	Chip Only (5750 (in mm)/2220 (in inch) size)	Metal Terminal Type (5750 (in mm)/2220 (in inch) size)
1000 Cycles	ĵ∫Solder Crack	
2000 Cycles	f/Solder Crack	

Test Condition: -55 to +125°C, 5min., (Liquid Phase) Board Used: Glass Epoxy Board (FR-4)

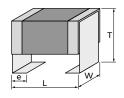
2 chips can be stacked. (3)

Realize large capacity by stacking 2 capacitors.

⚠Note • Please read rating and ⚠CAUTION (for storage, operating, rating, soldering, mounting and handling) in this catalog to prevent smoking and/or burning, etc.
• This catalog has only typical specifications. Therefore, please approve our product specifications or transact the approval sheet for product specifications before ordering.

### Specifications

Size	6.1×5.1mm to 6.1×5.3mm
Rated Voltage	25Vdc to 1000Vdc
Capacitance	8200pF to 100μF
Main Applications	For drive system control of engine ECU For other drive system controls and safety devices



<Dimensions>

# GCM Series

GCD Series

GCE Series

# KCM Series Temperature Compensating Type Power AEC Anti- Confedence Power









#### 6.1×5.1mm

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number
3.1mm	1000Vdc	U2J	8200pF	±5%	KCM55L7U3A822JDL1#
			10000pF	±5%	KCM55L7U3A103JDL1#
	630Vdc	COG	0.015µF	±5%	KCM55L5C2J153JDL1#
			0.018µF	±5%	KCM55L5C2J183JDL1#
		U2J	33000pF	±5%	KCM55L7U2J333JDL1#
			39000pF	±5%	KCM55L7U2J393JDL1#
			47000pF	±5%	KCM55L7U2J473JDL1#
3.9mm	630Vdc	COG	0.022µF	±5%	KCM55R5C2J223JDL1#
			0.027µF	±5%	KCM55R5C2J273JDL1#
5.1mm	1000Vdc	U2J	0.016µF	±10%	KCM55T7U3A163KDL1#
			0.020µF	±10%	KCM55T7U3A203KDL1#
	630Vdc	COG	0.030µF	±5%	KCM55T5C2J303JDL1#
			0.036µF	±5%	KCM55T5C2J363JDL1#
		U2J	66000pF	±10%	KCM55T7U2J663KDL1#
			78000pF	±10%	KCM55T7U2J783KDL1#
			94000pF	±10%	KCM55T7U2J943KDL1#
6.6mm	630Vdc	COG	0.044µF	±5%	KCM55V5C2J443JDL2#
			0.054µF	±5%	KCM55V5C2J543JDL2#

# KCM Series High Dielectric Constant Type [200] Anti- Constant Type [200] Part Number List

#### 6.1×5.3mm

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number
3.0mm	100Vdc	X7R	4.7µF	±10%	KCM55LR72A475KH01#
	63Vdc	X7R	4.7µF	±10%	KCM55LR71J475KH01#
	50Vdc	X7R	4.7µF	±10%	KCM55LR71H475KH01#
			10µF	±10%	KCM55LR71H106KH01#
	35Vdc	X7R	10µF	±10%	KCM55LR7YA106KH01#
			15µF	±10%	KCM55LR7YA156KH01#
	25Vdc	X7R	15µF	±10%	KCM55LR71E156KH01#
3.9mm	100Vdc	X7R	6.8µF	±10%	KCM55QR72A685KH01#
			10μF	±10%	KCM55QR72A106KH01#
	63Vdc	X7R	10µF	±10%	KCM55QR71J106KH01#
	50Vdc	X7R	10µF	±10%	KCM55QR71H106KH01#
			17µF	±10%	KCM55QR71H176KH01#
	35Vdc	X7R	17µF	±10%	KCM55QR7YA176KH01#
			22µF	±10%	KCM55QR7YA226KH01#
	25Vdc	X7R	22µF	±10%	KCM55QR71E226KH01#
			33µF	±10%	KCM55QR71E336KH01#
		X7S	47µF	±10%	KCM55QC71E476KH13#
5.0mm	100Vdc	X7R	10µF	±20%	KCM55TR72A106MH01#
	50Vdc	X7R	22µF	±20%	KCM55TR71H226MH01#
	35Vdc	X7R	22µF	±20%	KCM55TR7YA226MH01#
			33µF	±20%	KCM55TR7YA336MH01#
	25Vdc	X7R	33µF	±20%	KCM55TR71E336MH01#
6.7mm	100Vdc	X7R	15µF	±20%	KCM55WR72A156MH01#
			22µF	±20%	KCM55WR72A226MH01#
	63Vdc	X7R	22µF	±20%	KCM55WR71J226MH01#
	50Vdc	X7R	22µF	±20%	KCM55WR71H226MH01#
			33µF	±20%	KCM55WR71H336MH01#
	35Vdc	X7R	33µF	±20%	KCM55WR7YA336MH01#
			47µF	±20%	KCM55WR7YA476MH01#
	25Vdc	X7R	47µF	±20%	KCM55WR71E476MH01#
			68µF	±20%	KCM55WR71E686MH01#
		X7S	100µF	±20%	KCM55WC71E107MH13#

Series

High Effective Capacitance & High Allowable Ripple Current Metal Terminal Type Multilayer Ceramic Capacitors for Automotive

## KC3 Series











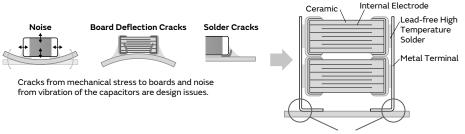


## Bonding the metal terminals to external electrodes solves design issues by mounting large size MLCC!

#### **Features**

## Bond Metal Terminals to External Electrodes of Chips

This product has high resistance to heat and mechanical impact and greatly reduces acoustic noise of boards by ceramics.

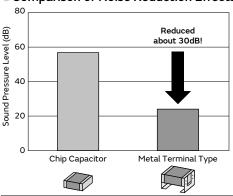


Reduces stress by the elastic action of the metal terminals!

## 2 Stacking of Chips

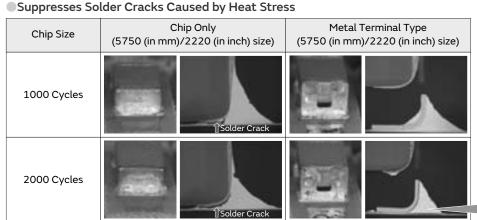
Achieve high capacity by stacking 2 capacitors.

#### Comparison of Noise Reduction Effects



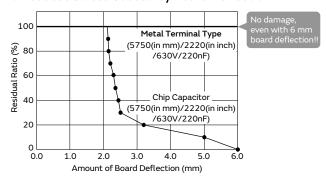
Evaluation Items: 5750 (in mm)/2220 (in inch) size/DC630V/220nF Test Method: DC50V, AC10Vp-p/3kHz Test Board: Glass Epoxy Board (T=1.6mm) Test Quantity: 3pc Distance Between Microphone and Board: 5mm

Note: Results Using Murata's Evaluation Board



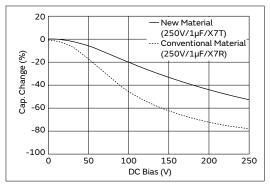
Test Condition: -55 to +125°C, 5min., (Liquid Phase) Board Used: Glass Epoxy Board (FR-4)

### Reduces Stress Caused by Board Deflection



## 3 Adopted Low Dielectric Constant Materials

Improved effective capacity and ripple resistant performance, compared to conventional products (X7R characteristics).

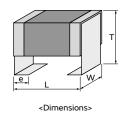


## 4 2 chips can be stacked

Realize large capacity by stacking 2 capacitors.

#### Specifications

Size	6.1×5.3mm
Rated Voltage	250Vdc to 630Vdc
Capacitance	0.10μF to 2.2μF
Main Applications	For drive system control of engine ECU For other drive system controls and safety devices



# KC3 Series High Dielectric Constant Type [2007] ATE | Constant Type [2007] Part Number List

#### 6.1×5.3mm

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number	
3.0mm	630Vdc	X7T	0.10µF	±10%	KC355LD72J104KH01#	
			0.15µF	±10%	KC355LD72J154KH01#	
			0.33µF	±10%	KC355LD7LQ334KV01#	D2
			0.47µF	±10%	KC355LD7LQ474KV01#	D2
	450Vdc	X7T	0.22µF	±10%	KC355LD72W224KH01#	
			0.33µF	±10%	KC355LD72W334KH01#	
			0.47µF	±10%	KC355LD72W474KH01#	
			0.68µF	±10%	KC355LD7LP684KV01#	D2
	250Vdc	X7T	0.47µF	±10%	KC355LD72E474KH01#	
			0.68µF	±10%	KC355LD72E684KH01#	
3.9mm	630Vdc	X7T	0.22µF	±10%	KC355QD72J224KH01#	
			0.27µF	±10%	KC355QD72J274KH01#	
			0.56µF	±10%	KC355QD7LQ564KV01#	D2
	450Vdc	X7T	0.56µF	±10%	KC355QD72W564KH01#	
			1.0µF	±10%	KC355QD7LP105KV01#	D2
	250Vdc	X7T	1.0µF	±10%	KC355QD72E105KH01#	
5.0mm	630Vdc	X7T	0.68µF	±20%	KC355TD7LQ684MV01#	D2
			1.0µF	±20%	KC355TD7LQ105MV01#	D2
	450Vdc	X7T	0.68µF	±20%	KC355TD72W684MH01#	
			1.0µF	±20%	KC355TD72W105MH01#	
			1.5µF	±20%	KC355TD7LP155MV01#	D2
	250Vdc	X7T	1.5µF	±20%	KC355TD72E155MH01#	
6.7mm	630Vdc	X7T	0.47µF	±20%	KC355WD72J474MH01#	
			0.56µF	±20%	KC355WD72J564MH01#	
			1.2µF	±20%	KC355WD7LQ125MV01#	<b>D2</b>
	450Vdc	X7T	1.2µF	±20%	KC355WD72W125MH01#	
			2.2µF	±20%	KC355WD7LP225MV01#	<b>D2</b>
	250Vdc	X7T	2.2µF	±20%	KC355WD72E225MH01#	

Safety Standard Certified Metal Terminal Type Multilayer Ceramic Capacitors for Automotive

## KCA Series













## For Automotive IEC60384-14 X1/Y2 Class Certified Product (Basic insulation product)

#### **Features**

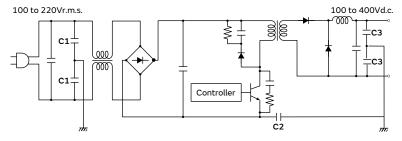
**(1)** IEC60384-14 certified product: Rated voltage AC250V (r.m.s.).

Please down load Safety Standard Certification (Type MF: X1,Y2) from Web site.

Best suitable for class Y2 capacitors.

AC250V (r.m.s.)-rated voltage, withstand voltage of AC2000V (r.m.s.) guaranteed for 60 seconds.

#### OBC (On Board Charger)

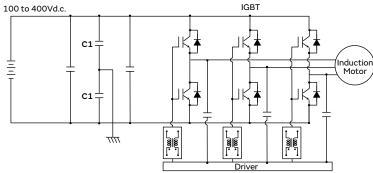


No.	Application			
C1	Y Cap (Primary)			
C2	Primary-Secondary Coupling			
СЗ	Y Cap (Secondary)			

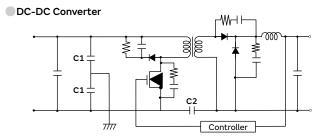
Best suitable for DC input common mode noise filters.

DC630V-rated voltage, withstand voltage of DC2700V guaranteed for 60 seconds.

## Inverter



No.	Application
C1	Common mode noise filters

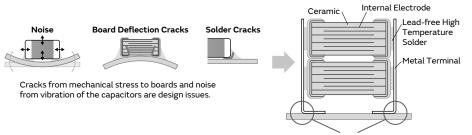


No.	Application
C1	Common mode noise filters
C2	Primary-Secondary Coupling

Series

4 Bond metal terminals to the external electrodes of chips.

The stress applied to the chip is relieved by the elastic action of the metal terminal.

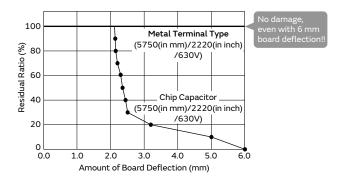


Reduces stress by the elastic action of the metal terminals!

## 5 Substantially reduces board deflection cracks and soldering cracks.

This product is not damaged even with a board deflection of 6 mm. Solder cracks do not occur even with 2,000 cycles of heat stress.

Reduces Stress Caused by Board Deflection



### Suppresses Solder Cracks Caused by Heat Stress

Chip Size	Chip Only (5750 (in mm)/2220 (in inch) size)	Metal Terminal Type (5750 (in mm)/2220 (in inch) size)
1000 Cycles	ĵ]Solder Crack	
2000 Cycles	∏Solder Crack	

Compared with chips only, this product is excellent in solder cracking resistance.

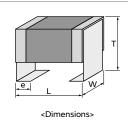
Test Condition: -55 to +125°C, 5min., (Liquid Phase) Board Used: Glass Epoxy Board (FR-4)

## 6 2 chips can be stacked.

Realize large capacity by stacking 2 capacitors.

### Specifications

Size	6.1×5.1mm	
Rated Voltage	250Vac (r.m.s.)	
Capacitance	100pF to 10000pF	
Main Applications	Battery chargers, Inverter, DC-DC converters	



KCA Series Temperature Compensating Type Fower Anti- Compensation Part Number List

#### 6.1×5.1mm

T max.	Rated Voltage	TC Code	Сар.	Tol.	Part Number
3.0mm	250Vac(r.m.s.)	U2J	100pF	±10%	KCA55L7UMF101KL01#
			150pF	±10%	KCA55L7UMF151KL01#
			220pF	±10%	KCA55L7UMF221KL01#
			330pF	±10%	KCA55L7UMF331KL01#
			470pF	±10%	KCA55L7UMF471KL01#
			680pF	±10%	KCA55L7UMF681KL01#
			1000pF	±10%	KCA55L7UMF102KL01#
			1500pF	±10%	KCA55L7UMF152KL01#
			2200pF	±10%	KCA55L7UMF222KL01#
			3300pF	±10%	KCA55L7UMF332KL01#
3.9mm	250Vac(r.m.s.)	U2J	4700pF	±10%	KCA55Q7UMF472KL01#
5.0mm	250Vac(r.m.s.)	U2J	6800pF	±20%	KCA55T7UMF682ML01#
6.7mm	250Vac(r.m.s.)	U2J	10000pF	±20%	KCA55W7UMF103ML01#

Ni Plating + Pd Plating Termination Conductive Glue Mounting Chip Multilayer Ceramic Capacitors for Automotive

## **GCB Series**









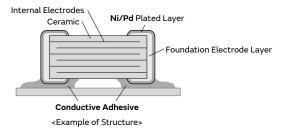


Monolithic ceramic capacitor limited to conductive glue mounting and that can be used even in high-temperature environments at 200°C

#### **Features**

### 1 Limited to Conductive Glue Mounting

These monolithic ceramic capacitors support the electrically conductive adhesives\*, now being used in the powertrains and safety devices of automobiles, complying with the AEC-Q200 stress test qualification for passive components.



### Palladium plating used for external electrodes

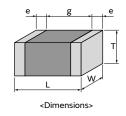
Palladium (Pd) is employed for the plating surfaces of the external electrodes of these capacitors, and a high bonding reliability with electrically conductive adhesives is achieved as a result even during use in high-temperature environments. Furthermore, the terminal electrodes of the capacitors have a superior corrosion resistance compared with our previously available product, the GCG series.

### 3 Ability to function at temperatures up to 200°C

Products that can be used at temperatures up to 200°C have now been made available, and they are ideally suited to the products and devices that are installed in automobiles and work in high-temperature conditions.

#### Specifications

Size	1.0×0.5mm
Rated Voltage	16Vdc to 100Vdc
Capacitance	1000pF to 0.10µF
Main Applications	Sensors and small-sized motors used in automobiles (appears there is content missing here)



<sup>\*</sup> This product is for use exclusively with conductive glue mounting. It cannot be used with any mounting methods other than conductive glue mounting.

Using solder to mount the product can result in insufficient wetting, insufficient bonding strength, and/or leaching of the Ag/Pd External Electrodes (terminations), which can cause quality problems such as the chip coming loose.

## GCB Series High Dielectric Constant Type 🚟 🍪 🐭 Part Number List









#### 1.0×0.5mm

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number
0.55mm	100Vdc	X8R	1000pF	±10%	GCB155R92A102KE03#
			1500pF	±10%	GCB155R92A152KE03#
			2200pF	±10%	GCB155R92A222KE03#
			3300pF	±10%	GCB155R92A332KE03#
			4700pF	±10%	GCB155R92A472KE03#
			6800pF	±10%	GCB155R92A682KE03#
			10000pF	±10%	GCB155R92A103KE03#
	50Vdc	X8R	1000pF	±10%	GCB155R91H102KE01#
			1500pF	±10%	GCB155R91H152KE01#
			2200pF	±10%	GCB155R91H222KE01#
			3300pF	±10%	GCB155R91H332KE01#
			4700pF	±10%	GCB155R91H472KE01#
			15000pF	±10%	GCB155R91H153KE03#
			22000pF	±10%	GCB155R91H223KE03#
			33000pF	±10%	GCB155R91H333KE03#
			47000pF	±10%	GCB155R91H473KE03#
	25Vdc X	X8R	6800pF	±10%	GCB155R91E682KE01#
			10000pF	±10%	GCB155R91E103KE01#
			47000pF	±10%	GCB155R91E473KE03#
			68000pF	±10%	GCB155R91E683KE03#
			0.10µF	±10%	GCB155R91E104KE03#
	16Vdc	X8R	15000pF	±10%	GCB155R91C153KE01#
			22000pF	±10%	GCB155R91C223KE01#
			33000pF	±10%	GCB155R91C333KE01#
			47000pF	±10%	GCB155R91C473KE01#
			68000pF	±10%	GCB155R91C683KE01#
			0.10µF	±10%	GCB155R91C104KE01#

AgPd Termination Conductive Glue Mounting Chip Multilayer Ceramic Capacitors for Automotive

## **GCG** Series









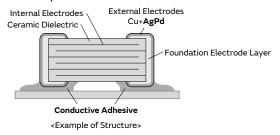


Improved mechanical and thermal strength by adopting AgPd external electrodes, which can be mounted with a conductive glue!

#### **Features**

### 1 Limited to Conductive Glue Mounting

This capacitor can be mounted with a conductive adhesive\* in powertrains and safety devices of automotive.



## 2 Adopted AgPd external electrodes

Adopted AgPd, which is excellent in bonding strength with a conductive adhesive.

### 3 Compatible up to 150°C

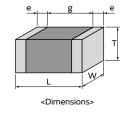
This capacitor lineup with X8L and X8R characteristics can be used in high temperature environments, such as in ABS and transmission control.

\* This product is for use exclusively with conductive glue mounting. It cannot be used with any mounting methods other than conductive glue mounting.

Using solder to mount the product can result in insufficient wetting, insufficient bonding strength, and/or leaching of the Ag/Pd External Electrodes (terminations), which can cause quality problems such as the chip coming loose.

#### Specifications

Size	1.0×0.5mm to 3.2×2.5mm
Rated Voltage	6.3Vdc to 100Vdc
Capacitance	1.0pF to 47μF
Main Applications	For automotive, power trains, sensors



# GCG Series Temperature Compensating Type Fig. 2000 Part Number List





#### 1 0×0 5mm

1.0×0.	5mm				
T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number
0.55mm	50Vdc	COG	1.0pF	±0.1pF	GCG1555C1H1R0BA01#
				±0.25pF	GCG1555C1H1R0CA01#
				±0.5pF	GCG1555C1H1R0DA01#
			1.1pF	±0.1pF	GCG1555C1H1R1BA01#
				±0.25pF	GCG1555C1H1R1CA01#
				±0.5pF	GCG1555C1H1R1DA01#
			1.2pF	±0.1pF	GCG1555C1H1R2BA01#
				±0.25pF	GCG1555C1H1R2CA01#
				±0.5pF	GCG1555C1H1R2DA01#
			1.3pF	±0.1pF	GCG1555C1H1R3BA01#
				±0.25pF	GCG1555C1H1R3CA01#
				±0.5pF	GCG1555C1H1R3DA01#
			1.4pF	±0.1pF	GCG1555C1H1R4BA01#
				±0.25pF	GCG1555C1H1R4CA01#
				±0.5pF	GCG1555C1H1R4DA01#
			1.5pF	±0.1pF	GCG1555C1H1R5BA01#
				±0.25pF	GCG1555C1H1R5CA01#
				±0.5pF	GCG1555C1H1R5DA01#
			1.6pF	±0.1pF	GCG1555C1H1R6BA01#
				±0.25pF	GCG1555C1H1R6CA01#
				±0.5pF	GCG1555C1H1R6DA01#
			1.7pF	±0.1pF	GCG1555C1H1R7BA01#
				±0.25pF	GCG1555C1H1R7CA01#
				±0.5pF	GCG1555C1H1R7DA01#
			1.8pF	±0.1pF	GCG1555C1H1R8BA01#
				· ·	GCG1555C1H1R8CA01#
				±0.5pF	GCG1555C1H1R8DA01#
			1.9pF	±0.1pF	GCG1555C1H1R9BA01#
					GCG1555C1H1R9CA01#
				±0.5pF	GCG1555C1H1R9DA01#
			2.0pF	±0.1pF	
					GCG1555C1H2R0CA01#
				±0.5pF	GCG1555C1H2R0DA01#
			2.1pF	±0.1pF	GCG1555C1H2R1BA01#
					GCG1555C1H2R1CA01#
				· ·	GCG1555C1H2R1DA01#
			2.2pF	<u> </u>	GCG1555C1H2R2BA01#
					GCG1555C1H2R2CA01#
			22.5	· ·	GCG1555C1H2R2DA01#
			2.3pF	±0.1pF	
				<u> </u>	GCG1555C1H2R3CA01#
			2.4.5	±0.5pF	
			2.4pF	±0.1pF	GCG1555C1H2R4BA01#
				· ·	GCG1555C1H2R4CA01#
			2 EnE	· ·	GCG1555C1H2R4DA01#
			2.5pF	±0.1pF	GCG1555C1H2R5BA01#
				±0.25pF ±0.5pF	GCG1555C1H2R5CA01# GCG1555C1H2R5DA01#
			2.6pF	±0.5pr	
			2.0pr	· ·	GCG1555C1H2R6CA01#
				±0.25pF ±0.5pF	GCG1555C1H2R6DA01#
			2.7pF	±0.5pF	GCG1555C1H2R7BA01#
			2.7 μτ	±0.1pr	GCG1555C1HZK/BAU1#

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number	
0.55mm	50Vdc	COG	2.7pF	±0.25pF	GCG1555C1H2R7CA01#	
				±0.5pF	GCG1555C1H2R7DA01#	
			2.8pF	±0.1pF	GCG1555C1H2R8BA01#	
				±0.25pF	GCG1555C1H2R8CA01#	
				±0.5pF	GCG1555C1H2R8DA01#	
			2.9pF	±0.1pF	GCG1555C1H2R9BA01#	
				±0.25pF	GCG1555C1H2R9CA01#	
				±0.5pF	GCG1555C1H2R9DA01#	
			3.0pF	±0.1pF	GCG1555C1H3R0BA01#	
				±0.25pF	GCG1555C1H3R0CA01#	
				±0.5pF	GCG1555C1H3R0DA01#	
			3.1pF	±0.1pF	GCG1555C1H3R1BA01#	
				±0.25pF	GCG1555C1H3R1CA01#	
				±0.5pF	GCG1555C1H3R1DA01#	
			3.2pF	±0.1pF	GCG1555C1H3R2BA01#	
				±0.25pF	GCG1555C1H3R2CA01#	
				±0.5pF	GCG1555C1H3R2DA01#	
			3.3pF	±0.1pF	GCG1555C1H3R3BA01#	
				±0.25pF	GCG1555C1H3R3CA01#	
				±0.5pF	GCG1555C1H3R3DA01#	
			3.4pF	±0.1pF	GCG1555C1H3R4BA01#	
				±0.25pF	GCG1555C1H3R4CA01#	
				±0.5pF	GCG1555C1H3R4DA01#	
			3.5pF		GCG1555C1H3R5BA01#	
			•	±0.25pF	GCG1555C1H3R5CA01#	
					GCG1555C1H3R5DA01#	
			3.6pF	±0.1pF	GCG1555C1H3R6BA01#	
				-	GCG1555C1H3R6CA01#	
				±0.5pF	GCG1555C1H3R6DA01#	
			3.7pF	±0.1pF	GCG1555C1H3R7BA01#	
					GCG1555C1H3R7CA01#	
				±0.5pF	GCG1555C1H3R7DA01#	
			3.8pF		GCG1555C1H3R8BA01#	
					GCG1555C1H3R8CA01#	
					GCG1555C1H3R8DA01#	
			3.9pF		GCG1555C1H3R9BA01#	
			3.5pi		GCG1555C1H3R9CA01#	
					GCG1555C1H3R9DA01#	
			4.0pF		GCG1555C1H4R0BA01#	
			opi		GCG1555C1H4R0CA01#	
					GCG1555C1H4R0DA01#	
			4.1pF		GCG1555C1H4R1BA01#	
			Th		GCG1555C1H4R1CA01#	
					GCG1555C1H4R1DA01#	
			4.2nE			
			4.2pF	-	GCG1555C1H4R2BA01#	
				-	GCG1555C1H4R2CA01#	
			42-5		GCG1555C1H4R2DA01#	
			4.3pF		GCG1555C1H4R3BA01#	
					GCG1555C1H4R3CA01#	
			4	-	GCG1555C1H4R3DA01#	
			4.4pF		GCG1555C1H4R4BA01#	
				-	GCG1555C1H4R4CA01#	
					GCG1555C1H4R4DA01#	
			4.5pF	±0.1pF	GCG1555C1H4R5BA01#	

# GCM Series

# KCM Series

## 





(→ 1.0>	0.5mm	)			
T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number
0.55mm	50Vdc	COG	4.5pF	±0.25pF	GCG1555C1H4R5CA01#
				±0.5pF	GCG1555C1H4R5DA01#
			4.6pF	±0.1pF	GCG1555C1H4R6BA01#
				±0.25pF	GCG1555C1H4R6CA01#
				±0.5pF	GCG1555C1H4R6DA01#
			4.7pF	±0.1pF	GCG1555C1H4R7BA01#
				±0.25pF	GCG1555C1H4R7CA01#
				±0.5pF	GCG1555C1H4R7DA01#
			4.8pF	±0.1pF	GCG1555C1H4R8BA01#
				±0.25pF	GCG1555C1H4R8CA01#
				±0.5pF	GCG1555C1H4R8DA01#
			4.9pF	±0.1pF	GCG1555C1H4R9BA01#
				±0.25pF	GCG1555C1H4R9CA01#
				±0.5pF	GCG1555C1H4R9DA01#
			5.0pF	±0.1pF	GCG1555C1H5R0BA01#
				±0.25pF	GCG1555C1H5R0CA01#
				±0.5pF	GCG1555C1H5R0DA01#
			5.1pF	±0.1pF	GCG1555C1H5R1BA01#
				±0.25pF	GCG1555C1H5R1CA01#
				±0.5pF	GCG1555C1H5R1DA01#
			5.2pF	±0.1pF	GCG1555C1H5R2BA01#
				±0.25pF	GCG1555C1H5R2CA01#
				±0.5pF	GCG1555C1H5R2DA01#
			5.3pF	±0.1pF	GCG1555C1H5R3BA01#
				· ·	GCG1555C1H5R3CA01#
					GCG1555C1H5R3DA01#
			5.4pF	±0.1pF	GCG1555C1H5R4BA01#
				· ·	GCG1555C1H5R4CA01#
					GCG1555C1H5R4DA01#
			5.5pF	<u> </u>	GCG1555C1H5R5BA01#
					GCG1555C1H5R5CA01#
					GCG1555C1H5R5DA01#
			5.6pF		GCG1555C1H5R6BA01#
				-	GCG1555C1H5R6CA01#
					GCG1555C1H5R6DA01#
			5.7pF	±0.1pF	GCG1555C1H5R7BA01#
				· ·	GCG1555C1H5R7CA01#
				· ·	GCG1555C1H5R7DA01#
			5.8pF	-	
				<u> </u>	GCG1555C1H5R8CA01#
					GCG1555C1H5R8DA01#
			5.9pF	<u> </u>	
				· ·	GCG1555C1H5R9CA01#
			6.00.5		GCG1555C1H5R9DA01#
			6.0pF	· ·	GCG1555C1H6R0BA01#
				<u> </u>	GCG1555C1H6R0CA01#
			61-5		GCG1555C1H6R0DA01#
			6.1pF		GCG1555C1H6R1BA01#
					GCG1555C1H6R1CA01#
			62-5		
			6.2pF	-	GCG1555C1H6R2BA01#
				-	GCG1555C1H6R2CA01#
			62-5		GCG1555C1H6R2DA01#
			6.3pF	±0.1pF	GCG1555C1H6R3BA01#

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number	
0.55mm	50Vdc	COG	6.3pF	±0.25pF	GCG1555C1H6R3CA01#	
				±0.5pF	GCG1555C1H6R3DA01#	
			6.4pF	±0.1pF	GCG1555C1H6R4BA01#	
				±0.25pF	GCG1555C1H6R4CA01#	
				±0.5pF	GCG1555C1H6R4DA01#	
			6.5pF	±0.1pF	GCG1555C1H6R5BA01#	
				±0.25pF	GCG1555C1H6R5CA01#	
				±0.5pF	GCG1555C1H6R5DA01#	
			6.6pF	±0.1pF	GCG1555C1H6R6BA01#	
				±0.25pF	GCG1555C1H6R6CA01#	
				±0.5pF	GCG1555C1H6R6DA01#	
			6.7pF	±0.1pF	GCG1555C1H6R7BA01#	
				±0.25pF	GCG1555C1H6R7CA01#	
				±0.5pF	GCG1555C1H6R7DA01#	
			6.8pF	±0.1pF	GCG1555C1H6R8BA01#	
				±0.25pF	GCG1555C1H6R8CA01#	
				±0.5pF	GCG1555C1H6R8DA01#	
			6.9pF	±0.1pF	GCG1555C1H6R9BA01#	
				±0.25pF	GCG1555C1H6R9CA01#	
				±0.5pF	GCG1555C1H6R9DA01#	
			7.0pF	±0.1pF	GCG1555C1H7R0BA01#	
				±0.25pF	GCG1555C1H7R0CA01#	
				±0.5pF	GCG1555C1H7R0DA01#	
			7.1pF	±0.1pF	GCG1555C1H7R1BA01#	
				±0.25pF	GCG1555C1H7R1CA01#	
				±0.5pF	GCG1555C1H7R1DA01#	
			7.2pF	±0.1pF	GCG1555C1H7R2BA01#	
				±0.25pF	GCG1555C1H7R2CA01#	
				±0.5pF	GCG1555C1H7R2DA01#	
			7.3pF	±0.1pF	GCG1555C1H7R3BA01#	
				±0.25pF	GCG1555C1H7R3CA01#	
				±0.5pF	GCG1555C1H7R3DA01#	
			7.4pF	±0.1pF	GCG1555C1H7R4BA01#	
				±0.25pF	GCG1555C1H7R4CA01#	
				±0.5pF	GCG1555C1H7R4DA01#	
			7.5pF	±0.1pF	GCG1555C1H7R5BA01#	
				±0.25pF	GCG1555C1H7R5CA01#	
				±0.5pF	GCG1555C1H7R5DA01#	
			7.6pF		GCG1555C1H7R6BA01#	
					GCG1555C1H7R6CA01#	
					GCG1555C1H7R6DA01#	
			7.7pF		GCG1555C1H7R7BA01#	
					GCG1555C1H7R7CA01#	
					GCG1555C1H7R7DA01#	
			7.8pF	<u> </u>	GCG1555C1H7R8BA01#	
				· ·	GCG1555C1H7R8CA01#	
			<b>-</b> -		GCG1555C1H7R8DA01#	
			7.9pF	<u> </u>	GCG1555C1H7R9BA01#	
				· -	GCG1555C1H7R9CA01#	
			<b>0</b>	-	GCG1555C1H7R9DA01#	
			8.0pF	-	GCG1555C1H8R0BA01#	
				-	GCG1555C1H8R0CA01#	
			01 -	•	GCG1555C1H8R0DA01#	
			8.1pF	±0.1pF	GCG1555C1H8R1BA01#	<u> </u>

(→ 1.0×	0.5mm	1)			
T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number
0.55mm	50Vdc	COG	8.1pF	±0.25pF	GCG1555C1H8R1CA01#
				±0.5pF	GCG1555C1H8R1DA01#
			8.2pF	±0.1pF	GCG1555C1H8R2BA01#
					GCG1555C1H8R2CA01#
				<u> </u>	GCG1555C1H8R2DA01#
			8.3pF	±0.1pF	GCG1555C1H8R3BA01#
					GCG1555C1H8R3CA01#
				±0.5pF	GCG1555C1H8R3DA01#
			8.4pF	±0.1pF	GCG1555C1H8R4BA01#
				· ·	GCG1555C1H8R4CA01#
					GCG1555C1H8R4DA01#
			8.5pF	-	
				-	GCG1555C1H8R5CA01#
				±0.5pF	GCG1555C1H8R5DA01#
			8.6pF	±0.1pF	GCG1555C1H8R6BA01#
				-	GCG1555C1H8R6CA01#
				±0.5pF	GCG1555C1H8R6DA01#
			8.7pF	±0.1pF	GCG1555C1H8R7BA01#
				-	GCG1555C1H8R7CA01#
					GCG1555C1H8R7DA01#
			8.8pF	±0.1pF	GCG1555C1H8R8BA01#
				-	GCG1555C1H8R8CA01#
				±0.5pF	GCG1555C1H8R8DA01#
			8.9pF	±0.1pF	GCG1555C1H8R9BA01#
				-	GCG1555C1H8R9CA01#
			9.0pF	±0.5pF ±0.1pF	GCG1555C1H8R9DA01# GCG1555C1H9R0BA01#
			э.орі	-	GCG1555C1H9R0CA01#
				±0.5pF	GCG1555C1H9R0DA01#
			9.1pF	±0.1pF	GCG1555C1H9R1BA01#
				· ·	GCG1555C1H9R1CA01#
				±0.5pF	GCG1555C1H9R1DA01#
			9.2pF	±0.1pF	GCG1555C1H9R2BA01#
			·	<u> </u>	GCG1555C1H9R2CA01#
			9.3pF	±0.1pF	GCG1555C1H9R3BA01#
				±0.25pF	GCG1555C1H9R3CA01#
				±0.5pF	GCG1555C1H9R3DA01#
			9.4pF	±0.1pF	GCG1555C1H9R4BA01#
				±0.25pF	GCG1555C1H9R4CA01#
				±0.5pF	GCG1555C1H9R4DA01#
			9.5pF	±0.1pF	GCG1555C1H9R5BA01#
				±0.25pF	GCG1555C1H9R5CA01#
				±0.5pF	GCG1555C1H9R5DA01#
			9.6pF	±0.1pF	GCG1555C1H9R6BA01#
				±0.25pF	GCG1555C1H9R6CA01#
				±0.5pF	GCG1555C1H9R6DA01#
			9.7pF	±0.1pF	GCG1555C1H9R7BA01#
				±0.25pF	GCG1555C1H9R7CA01#
				±0.5pF	GCG1555C1H9R7DA01#
			9.8pF	±0.1pF	GCG1555C1H9R8BA01#
				±0.25pF	GCG1555C1H9R8CA01#
				±0.5pF	GCG1555C1H9R8DA01#
			9.9pF	±0.1pF	GCG1555C1H9R9BA01#

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number	
0.55mm	50Vdc	COG	9.9pF	±0.25pF	GCG1555C1H9R9CA01#	_
				±0.5pF	GCG1555C1H9R9DA01#	
			10pF	±1%	GCG1555C1H100FA01#	
				±2.5%	GCG1555C1H100RA01#	
				±5%	GCG1555C1H100JA01#	
		СН	1.0pF	±0.1pF	GCG1552C1H1R0BA01#	
				±0.25pF	GCG1552C1H1R0CA01#	
				±0.5pF	GCG1552C1H1R0DA01#	
			1.1pF	±0.1pF	GCG1552C1H1R1BA01#	
				±0.25pF	GCG1552C1H1R1CA01#	
				±0.5pF	GCG1552C1H1R1DA01#	
			1.2pF	±0.1pF	GCG1552C1H1R2BA01#	
				±0.25pF	GCG1552C1H1R2CA01#	
				±0.5pF	GCG1552C1H1R2DA01#	
			1.3pF	±0.1pF	GCG1552C1H1R3BA01#	
				±0.25pF	GCG1552C1H1R3CA01#	
				±0.5pF	GCG1552C1H1R3DA01#	
			1.4pF	±0.1pF	GCG1552C1H1R4BA01#	
				±0.25pF	GCG1552C1H1R4CA01#	
				±0.5pF	GCG1552C1H1R4DA01#	
			1.5pF	±0.1pF	GCG1552C1H1R5BA01#	
				±0.25pF	GCG1552C1H1R5CA01#	
				±0.5pF	GCG1552C1H1R5DA01#	
			1.6pF	±0.1pF	GCG1552C1H1R6BA01#	
				±0.25pF	GCG1552C1H1R6CA01#	
				±0.5pF	GCG1552C1H1R6DA01#	
			1.7pF	±0.1pF	GCG1552C1H1R7BA01#	
				±0.25pF	GCG1552C1H1R7CA01#	
				±0.5pF	GCG1552C1H1R7DA01#	
			1.8pF	±0.1pF	GCG1552C1H1R8BA01#	
					GCG1552C1H1R8CA01#	
				±0.5pF	GCG1552C1H1R8DA01#	
			1.9pF	±0.1pF	GCG1552C1H1R9BA01#	
					GCG1552C1H1R9CA01#	
				-	GCG1552C1H1R9DA01#	
			2.0pF		GCG1552C1H2R0BA01#	
					GCG1552C1H2R0CA01#	
				-	GCG1552C1H2R0DA01#	
			2.1pF		GCG1552C1H2R1BA01#	
					GCG1552C1H2R1CA01#	
				-	GCG1552C1H2R1DA01#	
			2.2pF		GCG1552C1H2R2BA01#	
					GCG1552C1H2R2CA01#	
				-	GCG1552C1H2R2DA01#	
			2.3pF	<u> </u>	GCG1552C1H2R3BA01#	
					GCG1552C1H2R3CA01#	
			2.4:5		GCG1552C1H2R3DA01#	
			2.4pF		GCG1552C1H2R4BA01#	
				· ·	GCG1552C1H2R4CA01#	
			25.5	-	GCG1552C1H2R4DA01#	
			2.5pF	-	GCG1552C1H2R5BA01#	<u> </u>
				-	GCG1552C1H2R5CA01#	
			20-5	•	GCG1552C1H2R5DA01#	
			2.6pF	±0.1pF	GCG1552C1H2R6BA01#	<u> </u>

(→ 1.0×	0.5mm	)			
T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number
0.55mm	50Vdc	СН	2.6pF	±0.25pF	GCG1552C1H2R6CA01#
				±0.5pF	GCG1552C1H2R6DA01#
			2.7pF	±0.1pF	GCG1552C1H2R7BA01#
				±0.25pF	GCG1552C1H2R7CA01#
				±0.5pF	GCG1552C1H2R7DA01#
			2.8pF	±0.1pF	GCG1552C1H2R8BA01#
				±0.25pF	GCG1552C1H2R8CA01#
				±0.5pF	GCG1552C1H2R8DA01#
			2.9pF	±0.1pF	GCG1552C1H2R9BA01#
				±0.25pF	GCG1552C1H2R9CA01#
				±0.5pF	GCG1552C1H2R9DA01#
			3.0pF		GCG1552C1H3R0BA01#
				-	GCG1552C1H3R0CA01#
					GCG1552C1H3R0DA01#
			3.1pF	±0.1pF	GCG1552C1H3R1BA01#
				-	GCG1552C1H3R1CA01#
				· ·	GCG1552C1H3R1DA01#
			3.2pF	±0.1pF	GCG1552C1H3R2BA01#
				· ·	GCG1552C1H3R2CA01#
				· ·	GCG1552C1H3R2DA01#
			3.3pF	· ·	GCG1552C1H3R3BA01#
			2.4-5	· ·	GCG1552C1H3R3CA01#
					GCG1552C1H3R3DA01#
			3.4pF	±0.1pF	GCG1552C1H3R4BA01#
				-	GCG1552C1H3R4CA01#
			3.5pF 3.6pF 3.7pF	±0.5pF	GCG1552C1H3R4DA01#
				±0.1pF	GCG1552C1H3R5BA01#
				±0.5pF	GCG1552C1H3R5CA01# GCG1552C1H3R5DA01#
				±0.1pF	GCG1552C1H3R6BA01#
					GCG1552C1H3R6CA01#
				±0.5pF	GCG1552C1H3R6DA01#
					GCG1552C1H3R7BA01#
					GCG1552C1H3R7CA01#
				-	GCG1552C1H3R7DA01#
			3.8pF	· ·	GCG1552C1H3R8BA01#
				-	GCG1552C1H3R8CA01#
				· ·	GCG1552C1H3R8DA01#
			3.9pF		GCG1552C1H3R9BA01#
				±0.25pF	GCG1552C1H3R9CA01#
				±0.5pF	GCG1552C1H3R9DA01#
			4.0pF	±0.1pF	GCG1552C1H4R0BA01#
				±0.25pF	GCG1552C1H4R0CA01#
				±0.5pF	GCG1552C1H4R0DA01#
			4.1pF	±0.1pF	GCG1552C1H4R1BA01#
				±0.25pF	GCG1552C1H4R1CA01#
				±0.5pF	GCG1552C1H4R1DA01#
			4.2pF	±0.1pF	GCG1552C1H4R2BA01#
				±0.25pF	GCG1552C1H4R2CA01#
				±0.5pF	GCG1552C1H4R2DA01#
			4.3pF	±0.1pF	GCG1552C1H4R3BA01#
				±0.25pF	GCG1552C1H4R3CA01#
				±0.5pF	GCG1552C1H4R3DA01#
			4.4pF	±0.1pF	GCG1552C1H4R4BA01#

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number	
0.55mm	50Vdc	СН	4.4pF	±0.25pF	GCG1552C1H4R4CA01#	
				±0.5pF	GCG1552C1H4R4DA01#	
			4.5pF	±0.1pF	GCG1552C1H4R5BA01#	
				±0.25pF	GCG1552C1H4R5CA01#	
				±0.5pF	GCG1552C1H4R5DA01#	
			4.6pF	±0.1pF	GCG1552C1H4R6BA01#	
				±0.25pF	GCG1552C1H4R6CA01#	
				±0.5pF	GCG1552C1H4R6DA01#	
			4.7pF	±0.1pF	GCG1552C1H4R7BA01#	
				±0.25pF	GCG1552C1H4R7CA01#	
				±0.5pF	GCG1552C1H4R7DA01#	
			4.8pF	±0.1pF	GCG1552C1H4R8BA01#	
				±0.25pF	GCG1552C1H4R8CA01#	
				±0.5pF	GCG1552C1H4R8DA01#	
			4.9pF	±0.1pF	GCG1552C1H4R9BA01#	
				±0.25pF	GCG1552C1H4R9CA01#	
					GCG1552C1H4R9DA01#	
			5.0pF		GCG1552C1H5R0BA01#	
					GCG1552C1H5R0CA01#	
					GCG1552C1H5R0DA01#	
			5.1pF		GCG1552C1H5R1BA01#	
			·	-	GCG1552C1H5R1CA01#	
				-	GCG1552C1H5R1DA01#	
			5.2pF		GCG1552C1H5R2BA01#	
			·	-	GCG1552C1H5R2CA01#	
					GCG1552C1H5R2DA01#	
			5.3pF		GCG1552C1H5R3BA01#	
				±0.25pF	GCG1552C1H5R3CA01#	
				±0.5pF	GCG1552C1H5R3DA01#	
			5.4pF	±0.1pF	GCG1552C1H5R4BA01#	
				±0.25pF	GCG1552C1H5R4CA01#	
				±0.5pF	GCG1552C1H5R4DA01#	
			5.5pF	±0.1pF	GCG1552C1H5R5BA01#	
				±0.25pF	GCG1552C1H5R5CA01#	
				±0.5pF	GCG1552C1H5R5DA01#	
			5.6pF	±0.1pF	GCG1552C1H5R6BA01#	
				±0.25pF	GCG1552C1H5R6CA01#	
				±0.5pF	GCG1552C1H5R6DA01#	
			5.7pF	±0.1pF	GCG1552C1H5R7BA01#	
				±0.25pF	GCG1552C1H5R7CA01#	
				±0.5pF	GCG1552C1H5R7DA01#	
			5.8pF	±0.1pF	GCG1552C1H5R8BA01#	
				±0.25pF	GCG1552C1H5R8CA01#	
				±0.5pF	GCG1552C1H5R8DA01#	
			5.9pF	±0.1pF	GCG1552C1H5R9BA01#	
				±0.25pF	GCG1552C1H5R9CA01#	
				±0.5pF	GCG1552C1H5R9DA01#	
			6.0pF	±0.1pF	GCG1552C1H6R0BA01#	
				±0.25pF	GCG1552C1H6R0CA01#	
				±0.5pF	GCG1552C1H6R0DA01#	
			6.1pF	±0.1pF	GCG1552C1H6R1BA01#	
				±0.25pF	GCG1552C1H6R1CA01#	
				±0.5pF	GCG1552C1H6R1DA01#	
			6.2pF	±0.1pF	GCG1552C1H6R2BA01#	

# GCM Series

GC3 Series

dcd series

E Series GC

# GCG Series Temperature Compensating Type Fig. 2000 Part Number List

(→ 1.0)	0.5mm،	1)			
T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number
0.55mm	50Vdc	СН	6.2pF		GCG1552C1H6R2CA01#
				±0.5pF	GCG1552C1H6R2DA01#
			6.3pF	<u> </u>	GCG1552C1H6R3BA01#
				· ·	GCG1552C1H6R3CA01#
				±0.5pF	GCG1552C1H6R3DA01#
			6.4pF	±0.1pF	GCG1552C1H6R4BA01#
				±0.25pF	GCG1552C1H6R4CA01#
				±0.5pF	GCG1552C1H6R4DA01#
			6.5pF	±0.1pF	GCG1552C1H6R5BA01#
					GCG1552C1H6R5CA01#
				· ·	GCG1552C1H6R5DA01#
			6.6pF	-	GCG1552C1H6R6BA01#
				-	GCG1552C1H6R6CA01#
					GCG1552C1H6R6DA01#
			6.7pF	-	GCG1552C1H6R7BA01#
					GCG1552C1H6R7CA01#
					GCG1552C1H6R7DA01#
			6.8pF		GCG1552C1H6R8BA01#
				-	GCG1552C1H6R8CA01#
					GCG1552C1H6R8DA01#
			6.9pF	-	GCG1552C1H6R9BA01#
					GCG1552C1H6R9CA01#
				±0.5pF	GCG1552C1H6R9DA01#
			7.0pF	±0.1pF	GCG1552C1H7R0BA01#
				-	GCG1552C1H7R0CA01#
			7 1 n E	±0.5pF	GCG1552C1H7R0DA01#
			7.1pF	±0.1pF	GCG1552C1H7R1BA01#
					GCG1552C1H7R1CA01# GCG1552C1H7R1DA01#
			7.2pF	±0.5pF ±0.1pF	GCG1552C1H7R1BA01#
			7.2pi		GCG1552C1H7R2CA01#
				±0.5pF	GCG1552C1H7R2DA01#
			7.3pF	-	GCG1552C1H7R3BA01#
			7.50	<u> </u>	GCG1552C1H7R3CA01#
				· ·	GCG1552C1H7R3DA01#
			7.4pF		GCG1552C1H7R4BA01#
					GCG1552C1H7R4CA01#
					GCG1552C1H7R4DA01#
			7.5pF		GCG1552C1H7R5BA01#
				<u> </u>	GCG1552C1H7R5CA01#
					GCG1552C1H7R5DA01#
			7.6pF		GCG1552C1H7R6BA01#
			·		GCG1552C1H7R6CA01#
					GCG1552C1H7R6DA01#
			7.7pF	-	GCG1552C1H7R7BA01#
			•	-	GCG1552C1H7R7CA01#
				±0.5pF	GCG1552C1H7R7DA01#
			7.8pF	±0.1pF	GCG1552C1H7R8BA01#
				±0.25pF	GCG1552C1H7R8CA01#
				±0.5pF	GCG1552C1H7R8DA01#
			7.9pF	±0.1pF	GCG1552C1H7R9BA01#
				±0.25pF	GCG1552C1H7R9CA01#
				±0.5pF	GCG1552C1H7R9DA01#
			8.0pF	±0.1pF	GCG1552C1H8R0BA01#

			_			
T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number	
0.55mm	50Vdc	СН	8.0pF	±0.25pF	GCG1552C1H8R0CA01#	
				±0.5pF	GCG1552C1H8R0DA01#	
			8.1pF	±0.1pF	GCG1552C1H8R1BA01#	
				±0.25pF	GCG1552C1H8R1CA01#	
				±0.5pF	GCG1552C1H8R1DA01#	
			8.2pF	±0.1pF	GCG1552C1H8R2BA01#	
				±0.25pF	GCG1552C1H8R2CA01#	
				±0.5pF	GCG1552C1H8R2DA01#	
			8.3pF	±0.1pF	GCG1552C1H8R3BA01#	
				±0.25pF	GCG1552C1H8R3CA01#	
				±0.5pF	GCG1552C1H8R3DA01#	
			8.4pF	±0.1pF	GCG1552C1H8R4BA01#	
				±0.25pF	GCG1552C1H8R4CA01#	
				±0.5pF	GCG1552C1H8R4DA01#	
			8.5pF	±0.1pF	GCG1552C1H8R5BA01#	
				±0.25pF	GCG1552C1H8R5CA01#	
				±0.5pF	GCG1552C1H8R5DA01#	
			8.6pF	±0.1pF	GCG1552C1H8R6BA01#	
				±0.25pF	GCG1552C1H8R6CA01#	
				±0.5pF	GCG1552C1H8R6DA01#	
			8.7pF	±0.1pF	GCG1552C1H8R7BA01#	
				±0.25pF	GCG1552C1H8R7CA01#	
				±0.5pF	GCG1552C1H8R7DA01#	
			8.8pF	±0.1pF	GCG1552C1H8R8BA01#	
				±0.25pF	GCG1552C1H8R8CA01#	
				±0.5pF	GCG1552C1H8R8DA01#	
			8.9pF	±0.1pF	GCG1552C1H8R9BA01#	
				±0.25pF	GCG1552C1H8R9CA01#	
				±0.5pF	GCG1552C1H8R9DA01#	
			9.0pF	±0.1pF	GCG1552C1H9R0BA01#	
				±0.25pF	GCG1552C1H9R0CA01#	
				±0.5pF	GCG1552C1H9R0DA01#	
			9.1pF	±0.1pF	GCG1552C1H9R1BA01#	
				±0.25pF	GCG1552C1H9R1CA01#	
				_	GCG1552C1H9R1DA01#	
			9.2pF	±0.1pF	GCG1552C1H9R2BA01#	
					GCG1552C1H9R2CA01#	
					GCG1552C1H9R2DA01#	
			9.3pF		GCG1552C1H9R3BA01#	
				·	GCG1552C1H9R3CA01#	
					GCG1552C1H9R3DA01#	
			9.4pF	· ·	GCG1552C1H9R4BA01#	
				±0.25pF	GCG1552C1H9R4CA01#	
				-	GCG1552C1H9R4DA01#	
			9.5pF		GCG1552C1H9R5BA01#	
					GCG1552C1H9R5CA01#	
			0.5 -		GCG1552C1H9R5DA01#	
			9.6pF		GCG1552C1H9R6BA01#	
					GCG1552C1H9R6CA01#	
			07.5		GCG1552C1H9R6DA01#	
			9.7pF		GCG1552C1H9R7BA01#	
				-	GCG1552C1H9R7CA01#	
			0.0-5		GCG1552C1H9R7DA01#	
			9.8pF	±0.1pF	GCG1552C1H9R8BA01#	

# GCG Series Temperature Compensating Type Power (AEC) (Control Control

(→ 1.0>	0.5mm،	)			
T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number
0.55mm	50Vdc	СН	9.8pF	±0.25pF	GCG1552C1H9R8CA01#
				±0.5pF	GCG1552C1H9R8DA01#
			9.9pF	±0.1pF	GCG1552C1H9R9BA01#
				±0.25pF	GCG1552C1H9R9CA01#
				±0.5pF	GCG1552C1H9R9DA01#
			10pF	±1%	GCG1552C1H100FA01#
				±2.5%	GCG1552C1H100RA01#
				±5%	GCG1552C1H100JA01#
		C1	2.1pF	±0.1pF	GCG1553C1H2R1BA01#
				±0.25pF	GCG1553C1H2R1CA01#
				±0.5pF	GCG1553C1H2R1DA01#
			2.2pF	±0.1pF	GCG1553C1H2R2BA01#
				· ·	GCG1553C1H2R2CA01#
				±0.5pF	GCG1553C1H2R2DA01#
			2.3pF	±0.1pF	GCG1553C1H2R3BA01#
				±0.25pF	GCG1553C1H2R3CA01#
				±0.5pF	
			2.4pF	±0.1pF	
				-	GCG1553C1H2R4CA01#
				±0.5pF	GCG1553C1H2R4DA01#
			2.5pF	±0.1pF	GCG1553C1H2R5BA01#
				· ·	GCG1553C1H2R5CA01#
				±0.5pF	
			2.6pF	±0.1pF	GCG1553C1H2R6BA01#
				· ·	GCG1553C1H2R6CA01#
			2.7	±0.5pF	
			2.7pF	±0.1pF	GCG1553C1H2R7BA01#
				±0.25pF	GCG1553C1H2R7CA01# GCG1553C1H2R7DA01#
			2.8pF	±0.3pF	GCG1553C1H2R8BA01#
			2.001	<u> </u>	GCG1553C1H2R8CA01#
				±0.5pF	GCG1553C1H2R8DA01#
			2.9pF	±0.1pF	GCG1553C1H2R9BA01#
			2.50		GCG1553C1H2R9CA01#
				<u> </u>	GCG1553C1H2R9DA01#
			3.0pF	±0.1pF	
					GCG1553C1H3R0CA01#
					GCG1553C1H3R0DA01#
			3.1pF	±0.1pF	
					GCG1553C1H3R1CA01#
				±0.5pF	GCG1553C1H3R1DA01#
			3.2pF	±0.1pF	GCG1553C1H3R2BA01#
				±0.25pF	GCG1553C1H3R2CA01#
				±0.5pF	GCG1553C1H3R2DA01#
			3.3pF	±0.1pF	GCG1553C1H3R3BA01#
				±0.25pF	GCG1553C1H3R3CA01#
				±0.5pF	GCG1553C1H3R3DA01#
			3.4pF	±0.1pF	GCG1553C1H3R4BA01#
				±0.25pF	GCG1553C1H3R4CA01#
				±0.5pF	GCG1553C1H3R4DA01#
			3.5pF	±0.1pF	GCG1553C1H3R5BA01#
				±0.25pF	GCG1553C1H3R5CA01#
				±0.5pF	GCG1553C1H3R5DA01#
			3.6pF	±0.1pF	GCG1553C1H3R6BA01#

т	Rated	тс				
max.	Voltage	Code	Cap.	Tol.	Part Number	
0.55mm	50Vdc	CJ	3.6pF	±0.25pF	GCG1553C1H3R6CA01#	
				±0.5pF	GCG1553C1H3R6DA01#	
			3.7pF	±0.1pF	GCG1553C1H3R7BA01#	
				±0.25pF	GCG1553C1H3R7CA01#	
				±0.5pF	GCG1553C1H3R7DA01#	
			3.8pF	±0.1pF	GCG1553C1H3R8BA01#	
				±0.25pF	GCG1553C1H3R8CA01#	
				±0.5pF	GCG1553C1H3R8DA01#	
			3.9pF	±0.1pF	GCG1553C1H3R9BA01#	
				±0.25pF	GCG1553C1H3R9CA01#	
				±0.5pF	GCG1553C1H3R9DA01#	
		CK	1.0pF	±0.1pF	GCG1554C1H1R0BA01#	
				±0.25pF	GCG1554C1H1R0CA01#	
				±0.5pF	GCG1554C1H1R0DA01#	
			1.1pF	±0.1pF	GCG1554C1H1R1BA01#	
				±0.25pF	GCG1554C1H1R1CA01#	
				±0.5pF	GCG1554C1H1R1DA01#	
			1.2pF	±0.1pF	GCG1554C1H1R2BA01#	
				±0.25pF	GCG1554C1H1R2CA01#	
				±0.5pF	GCG1554C1H1R2DA01#	
			1.3pF	±0.1pF	GCG1554C1H1R3BA01#	
				±0.25pF	GCG1554C1H1R3CA01#	
				±0.5pF	GCG1554C1H1R3DA01#	
			1.4pF	±0.1pF	GCG1554C1H1R4BA01#	
				±0.25pF	GCG1554C1H1R4CA01#	
				±0.5pF	GCG1554C1H1R4DA01#	
				±0.1pF	GCG1554C1H1R5BA01#	
				±0.25pF	GCG1554C1H1R5CA01#	
				±0.5pF	GCG1554C1H1R5DA01#	
			1.6pF	±0.1pF	GCG1554C1H1R6BA01#	
				±0.25pF	GCG1554C1H1R6CA01#	
				±0.5pF	GCG1554C1H1R6DA01#	
			1.7pF	±0.1pF	GCG1554C1H1R7BA01#	
				±0.25pF	GCG1554C1H1R7CA01#	
				±0.5pF	GCG1554C1H1R7DA01#	
			1.8pF	±0.1pF	GCG1554C1H1R8BA01#	
				±0.25pF	GCG1554C1H1R8CA01#	
				±0.5pF	GCG1554C1H1R8DA01#	
			1.9pF	±0.1pF	GCG1554C1H1R9BA01#	
				±0.25pF	GCG1554C1H1R9CA01#	
				±0.5pF	GCG1554C1H1R9DA01#	
			2.0pF	±0.1pF	GCG1554C1H2R0BA01#	
				±0.25pF	GCG1554C1H2R0CA01#	
				±0.5pF	GCG1554C1H2R0DA01#	
		СНА	1.0pF	±0.1pF	GCG1550C1H1R0BA01#	
				±0.25pF	GCG1550C1H1R0CA01#	
				±0.5pF	GCG1550C1H1R0DA01#	
			1.1pF		GCG1550C1H1R1BA01#	
				±0.25pF	GCG1550C1H1R1CA01#	
				±0.5pF	GCG1550C1H1R1DA01#	
			1.2pF		GCG1550C1H1R2BA01#	
					GCG1550C1H1R2CA01#	
				-	GCG1550C1H1R2DA01#	
			1.3pF	±0.1pF	GCG1550C1H1R3BA01#	

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(→ 1.0×	0.5mm	1)			
T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number
0.55mm	50Vdc	CHA	1.3pF	-	GCG1550C1H1R3CA01#
				±0.5pF	GCG1550C1H1R3DA01#
			1.4pF		GCG1550C1H1R4BA01#
				· ·	GCG1550C1H1R4CA01#
					GCG1550C1H1R4DA01#
			1.5pF	±0.1pF	GCG1550C1H1R5BA01#
				±0.25pF	GCG1550C1H1R5CA01#
				±0.5pF	GCG1550C1H1R5DA01#
			1.6pF	±0.1pF	GCG1550C1H1R6BA01#
				±0.25pF	GCG1550C1H1R6CA01#
				±0.5pF	GCG1550C1H1R6DA01#
			1.7pF	±0.1pF	GCG1550C1H1R7BA01#
				±0.25pF	GCG1550C1H1R7CA01#
				±0.5pF	GCG1550C1H1R7DA01#
			1.8pF	±0.1pF	GCG1550C1H1R8BA01#
				±0.25pF	GCG1550C1H1R8CA01#
				±0.5pF	GCG1550C1H1R8DA01#
			1.9pF	±0.1pF	GCG1550C1H1R9BA01#
				±0.25pF	GCG1550C1H1R9CA01#
				±0.5pF	GCG1550C1H1R9DA01#
			2.0pF	±0.1pF	GCG1550C1H2R0BA01#
				±0.25pF	GCG1550C1H2R0CA01#
				±0.5pF	GCG1550C1H2R0DA01#
			2.1pF	±0.1pF	GCG1550C1H2R1BA01#
				±0.25pF	GCG1550C1H2R1CA01#
				±0.5pF	GCG1550C1H2R1DA01#
			2.2pF	±0.1pF	GCG1550C1H2R2BA01#
				±0.25pF	GCG1550C1H2R2CA01#
				±0.5pF	GCG1550C1H2R2DA01#
			2.3pF	±0.1pF	GCG1550C1H2R3BA01#
				±0.25pF	GCG1550C1H2R3CA01#
				±0.5pF	GCG1550C1H2R3DA01#
			2.4pF	±0.1pF	GCG1550C1H2R4BA01#
				±0.25pF	GCG1550C1H2R4CA01#
				±0.5pF	GCG1550C1H2R4DA01#
			2.5pF	±0.1pF	GCG1550C1H2R5BA01#
				±0.25pF	GCG1550C1H2R5CA01#
				±0.5pF	GCG1550C1H2R5DA01#
			2.6pF	±0.1pF	GCG1550C1H2R6BA01#
				±0.25pF	GCG1550C1H2R6CA01#
				±0.5pF	GCG1550C1H2R6DA01#
			2.7pF	±0.1pF	GCG1550C1H2R7BA01#
				±0.25pF	GCG1550C1H2R7CA01#
				±0.5pF	GCG1550C1H2R7DA01#
			2.8pF	±0.1pF	GCG1550C1H2R8BA01#
				±0.25pF	GCG1550C1H2R8CA01#
				±0.5pF	GCG1550C1H2R8DA01#
			2.9pF	±0.1pF	GCG1550C1H2R9BA01#
			•	· ·	GCG1550C1H2R9CA01#
					GCG1550C1H2R9DA01#
			3.0pF		GCG1550C1H3R0BA01#
			'	-	GCG1550C1H3R0CA01#
				-	GCG1550C1H3R0DA01#
			3.1pF	±0.1pF	GCG1550C1H3R1BA01#
		ш	pi	5.±pi	3

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number	
0.55mm	50Vdc	СНА	3.1pF	±0.25pF	GCG1550C1H3R1CA01#	
				±0.5pF	GCG1550C1H3R1DA01#	
			3.2pF	±0.1pF	GCG1550C1H3R2BA01#	
				±0.25pF	GCG1550C1H3R2CA01#	
				±0.5pF	GCG1550C1H3R2DA01#	
			3.3pF	±0.1pF	GCG1550C1H3R3BA01#	
				±0.25pF	GCG1550C1H3R3CA01#	
				±0.5pF	GCG1550C1H3R3DA01#	
			3.4pF	±0.1pF	GCG1550C1H3R4BA01#	
				±0.25pF	GCG1550C1H3R4CA01#	
				±0.5pF	GCG1550C1H3R4DA01#	
			3.5pF	±0.1pF	GCG1550C1H3R5BA01#	
				±0.25pF	GCG1550C1H3R5CA01#	
				±0.5pF	GCG1550C1H3R5DA01#	
			3.6pF	±0.1pF	GCG1550C1H3R6BA01#	
				±0.25pF	GCG1550C1H3R6CA01#	
				±0.5pF	GCG1550C1H3R6DA01#	
			3.7pF	±0.1pF	GCG1550C1H3R7BA01#	
				±0.25pF	GCG1550C1H3R7CA01#	
				±0.5pF	GCG1550C1H3R7DA01#	
			3.8pF	±0.1pF	GCG1550C1H3R8BA01#	
				±0.25pF	GCG1550C1H3R8CA01#	
				±0.5pF	GCG1550C1H3R8DA01#	
			3.9pF	±0.1pF	GCG1550C1H3R9BA01#	
				±0.25pF	GCG1550C1H3R9CA01#	
				±0.5pF	GCG1550C1H3R9DA01#	
			4.0pF	±0.1pF	GCG1550C1H4R0BA01#	
				±0.25pF	GCG1550C1H4R0CA01#	
				±0.5pF	GCG1550C1H4R0DA01#	
			4.1pF	±0.1pF	GCG1550C1H4R1BA01#	
				±0.25pF	GCG1550C1H4R1CA01#	
				±0.5pF	GCG1550C1H4R1DA01#	
			4.2pF	±0.1pF	GCG1550C1H4R2BA01#	
				±0.25pF	GCG1550C1H4R2CA01#	
				±0.5pF	GCG1550C1H4R2DA01#	
			4.3pF	±0.1pF	GCG1550C1H4R3BA01#	
				±0.25pF	GCG1550C1H4R3CA01#	
				±0.5pF	GCG1550C1H4R3DA01#	
			4.4pF	±0.1pF	GCG1550C1H4R4BA01#	
				±0.25pF	GCG1550C1H4R4CA01#	
				±0.5pF	GCG1550C1H4R4DA01#	
			4.5pF	±0.1pF	GCG1550C1H4R5BA01#	
				±0.25pF	GCG1550C1H4R5CA01#	
				±0.5pF	GCG1550C1H4R5DA01#	
			4.6pF	±0.1pF	GCG1550C1H4R6BA01#	
				±0.25pF	GCG1550C1H4R6CA01#	
				±0.5pF	GCG1550C1H4R6DA01#	
			4.7pF	±0.1pF	GCG1550C1H4R7BA01#	
				±0.25pF	GCG1550C1H4R7CA01#	
				±0.5pF	GCG1550C1H4R7DA01#	
			4.8pF	±0.1pF	GCG1550C1H4R8BA01#	
				±0.25pF	GCG1550C1H4R8CA01#	
				±0.5pF	GCG1550C1H4R8DA01#	
			4.9pF	±0.1pF	GCG1550C1H4R9BA01#	

(→ 1.0×0.5mm)							
T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number		
0.55mm	50Vdc	СНА	4.9pF	±0.25pF	GCG1550C1H4R9CA01#		
				±0.5pF	GCG1550C1H4R9DA01#		
			5.0pF	±0.1pF	GCG1550C1H5R0BA01#		
				±0.25pF	GCG1550C1H5R0CA01#		
				±0.5pF	GCG1550C1H5R0DA01#		
			5.1pF	±0.1pF	GCG1550C1H5R1BA01#		
				±0.25pF	GCG1550C1H5R1CA01#		
				±0.5pF	GCG1550C1H5R1DA01#		
			5.2pF	±0.1pF	GCG1550C1H5R2BA01#		
				±0.25pF	GCG1550C1H5R2CA01#		
				±0.5pF	GCG1550C1H5R2DA01#		
			5.3pF	±0.1pF	GCG1550C1H5R3BA01#		
				±0.25pF	GCG1550C1H5R3CA01#		
				±0.5pF	GCG1550C1H5R3DA01#		
			5.4pF	±0.1pF	GCG1550C1H5R4BA01#		
				±0.25pF	GCG1550C1H5R4CA01#		
				· ·	GCG1550C1H5R4DA01#		
			5.5pF	±0.1pF	GCG1550C1H5R5BA01#		
				±0.25pF	GCG1550C1H5R5CA01#		
				±0.5pF	GCG1550C1H5R5DA01#		
			5.6pF	±0.1pF	GCG1550C1H5R6BA01#		
				±0.25pF	GCG1550C1H5R6CA01#		
				±0.5pF	GCG1550C1H5R6DA01#		
			5.7pF	±0.1pF	GCG1550C1H5R7BA01#		
				±0.25pF	GCG1550C1H5R7CA01#		
				±0.5pF	GCG1550C1H5R7DA01#		
			5.8pF	±0.1pF	GCG1550C1H5R8BA01#		
				±0.25pF	GCG1550C1H5R8CA01#		
				±0.5pF	GCG1550C1H5R8DA01#		
			5.9pF	±0.1pF	GCG1550C1H5R9BA01#		
					GCG1550C1H5R9CA01#		
				±0.5pF	GCG1550C1H5R9DA01#		
			6.0pF		GCG1550C1H6R0BA01#		
				-	GCG1550C1H6R0CA01#		
				· ·	GCG1550C1H6R0DA01#		
			6.1pF	-	GCG1550C1H6R1BA01#		
				<u> </u>	GCG1550C1H6R1CA01#		
					GCG1550C1H6R1DA01#		
			6.2pF		GCG1550C1H6R2BA01#		
				· ·	GCG1550C1H6R2CA01#		
					GCG1550C1H6R2DA01#		
			6.3pF		GCG1550C1H6R3BA01#		
				<u> </u>	GCG1550C1H6R3CA01#		
			6.4.5	-	GCG1550C1H6R3DA01#		
			6.4pF	· ·	GCG1550C1H6R4BA01#		
				· ·	GCG1550C1H6R4CA01#		
			6.5pF		GCG1550C1H6R4DA01#		
			о.эрг		GCG1550C1H6R5BA01# GCG1550C1H6R5CA01#		
				±0.25pF ±0.5pF			
			6 6 n E				
			6.6pF		GCG1550C1H6R6BA01# GCG1550C1H6R6CA01#		
				-	GCG1550C1H6R6DA01#		
			6.7pF	±0.3pF	GCG1550C1H6R7BA01#		
			0.7 pr	±0.1pr	GCG1330C1H6K/BAU1#		

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number	
0.55mm	50Vdc	СНА	6.7pF	±0.25pF	GCG1550C1H6R7CA01#	
				±0.5pF	GCG1550C1H6R7DA01#	
			6.8pF	±0.1pF	GCG1550C1H6R8BA01#	
				±0.25pF	GCG1550C1H6R8CA01#	
				±0.5pF	GCG1550C1H6R8DA01#	
			6.9pF	±0.1pF	GCG1550C1H6R9BA01#	
				±0.25pF	GCG1550C1H6R9CA01#	
				±0.5pF	GCG1550C1H6R9DA01#	
			7.0pF	±0.1pF	GCG1550C1H7R0BA01#	
					GCG1550C1H7R0CA01#	
				±0.5pF	GCG1550C1H7R0DA01#	
			7.1pF		GCG1550C1H7R1BA01#	
				±0.25pF	GCG1550C1H7R1CA01#	
				±0.5pF	GCG1550C1H7R1DA01#	
			7.2pF	±0.1pF	GCG1550C1H7R2BA01#	
				±0.25pF	GCG1550C1H7R2CA01#	
				±0.5pF	GCG1550C1H7R2DA01#	
			7.3pF	±0.1pF	GCG1550C1H7R3BA01#	
				±0.25pF	GCG1550C1H7R3CA01#	
					GCG1550C1H7R3DA01#	
			7.4pF		GCG1550C1H7R4BA01#	
					GCG1550C1H7R4CA01#	
					GCG1550C1H7R4DA01#	
			7.5pF	-	GCG1550C1H7R5BA01#	
				· ·	GCG1550C1H7R5CA01#	
			7.5		GCG1550C1H7R5DA01#	
			7.6pF		GCG1550C1H7R6BA01#	
					GCG1550C1H7R6CA01#	
			7 7nE		GCG1550C1H7R6DA01# GCG1550C1H7R7BA01#	
			7.7pF		GCG1550C1H7R7CA01#	
				±0.5pF	GCG1550C1H7R7CA01#	
			7.8pF		GCG1550C1H7R8BA01#	
			7. <b>0</b> pi		GCG1550C1H7R8CA01#	
					GCG1550C1H7R8DA01#	
			7.9pF		GCG1550C1H7R9BA01#	
					GCG1550C1H7R9CA01#	
					GCG1550C1H7R9DA01#	
			8.0pF		GCG1550C1H8R0BA01#	
				±0.25pF	GCG1550C1H8R0CA01#	
				·	GCG1550C1H8R0DA01#	
			8.1pF		GCG1550C1H8R1BA01#	
					GCG1550C1H8R1CA01#	
					GCG1550C1H8R1DA01#	
			8.2pF	±0.1pF	GCG1550C1H8R2BA01#	
				±0.25pF	GCG1550C1H8R2CA01#	
				±0.5pF	GCG1550C1H8R2DA01#	
			8.3pF	±0.1pF	GCG1550C1H8R3BA01#	
				±0.25pF	GCG1550C1H8R3CA01#	
				±0.5pF	GCG1550C1H8R3DA01#	
			8.4pF	±0.1pF	GCG1550C1H8R4BA01#	
				±0.25pF	GCG1550C1H8R4CA01#	
				±0.5pF	GCG1550C1H8R4DA01#	
			8.5pF	±0.1pF	GCG1550C1H8R5BA01#	

# GCM Series



(→ 1.0>	0.5mm	1)			
T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number
0.55mm	50Vdc	СНА	8.5pF	±0.25pF	GCG1550C1H8R5CA01#
				±0.5pF	GCG1550C1H8R5DA01#
			8.6pF	±0.1pF	GCG1550C1H8R6BA01#
				±0.25pF	GCG1550C1H8R6CA01#
				±0.5pF	GCG1550C1H8R6DA01#
			8.7pF	±0.1pF	GCG1550C1H8R7BA01#
				±0.25pF	GCG1550C1H8R7CA01#
				±0.5pF	GCG1550C1H8R7DA01#
			8.8pF	±0.1pF	GCG1550C1H8R8BA01#
				±0.25pF	GCG1550C1H8R8CA01#
				±0.5pF	GCG1550C1H8R8DA01#
			8.9pF	±0.1pF	GCG1550C1H8R9BA01#
				±0.25pF	GCG1550C1H8R9CA01#
				±0.5pF	GCG1550C1H8R9DA01#
			9.0pF	±0.1pF	GCG1550C1H9R0BA01#
				±0.25pF	GCG1550C1H9R0CA01#
				±0.5pF	GCG1550C1H9R0DA01#
			9.1pF	±0.1pF	GCG1550C1H9R1BA01#
				±0.25pF	GCG1550C1H9R1CA01#
				±0.5pF	GCG1550C1H9R1DA01#
			9.2pF	±0.1pF	GCG1550C1H9R2BA01#
				±0.25pF	GCG1550C1H9R2CA01#
				±0.5pF	GCG1550C1H9R2DA01#
			9.3pF	±0.1pF	GCG1550C1H9R3BA01#
				±0.25pF	GCG1550C1H9R3CA01#
				±0.5pF	GCG1550C1H9R3DA01#
			9.4pF	±0.1pF	GCG1550C1H9R4BA01#
				±0.25pF	GCG1550C1H9R4CA01#
				±0.5pF	GCG1550C1H9R4DA01#
			9.5pF	±0.1pF	GCG1550C1H9R5BA01#
					GCG1550C1H9R5CA01#
					GCG1550C1H9R5DA01#
			9.6pF	±0.1pF	GCG1550C1H9R6BA01#
				-	GCG1550C1H9R6CA01#
			0.7.5		GCG1550C1H9R6DA01#
			9.7pF	±0.1pF	GCG1550C1H9R7BA01#
					GCG1550C1H9R7CA01#
			0.0-5	±0.5pF	GCG1550C1H9R7DA01#
			9.8pF	±0.1pF	GCG1550C1H9R8BA01#
				· ·	GCG1550C1H9R8CA01# GCG1550C1H9R8DA01#
			9.9pF	±0.1pF	GCG1550C1H9R9BA01#
			J.Jpi		GCG1550C1H9R9CA01#
				±0.5pF	GCG1550C1H9R9DA01#
			10pF	±1%	GCG1550C1H100FA01#
			- 1	±2.5%	GCG1550C1H100RA01#
				±5%	GCG1550C1H100JA01#
			11pF	±2%	GCG1550C1H110GA01#
				±5%	GCG1550C1H110JA01#
			12pF	±2%	GCG1550C1H120GA01#
				±5%	GCG1550C1H120JA01#
			13pF	±2%	GCG1550C1H130GA01#
				±5%	GCG1550C1H130JA01#
			15pF	±2%	GCG1550C1H150GA01#

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number							
0.55mm	50Vdc	СНА	15pF	±5%	GCG1550C1H150JA01#							
			16pF	±2%	GCG1550C1H160GA01#							
				±5%	GCG1550C1H160JA01#							
			18pF	±2%	GCG1550C1H180GA01#							
				±5%	GCG1550C1H180JA01#							
			20pF	±2%	GCG1550C1H200GA01#							
				±5%	GCG1550C1H200JA01#							
			22pF	±2%	GCG1550C1H220GA01#							
				±5%	GCG1550C1H220JA01#							
			24pF	±2%	GCG1550C1H240GA01#							
				±5%	GCG1550C1H240JA01#							
			27pF	±2%	GCG1550C1H270GA01#							
				±5%	GCG1550C1H270JA01#							
			30pF	±2%	GCG1550C1H300GA01#							
				±5%	GCG1550C1H300JA01#							
			33pF	±2%	GCG1550C1H330GA01#							
				±5%	GCG1550C1H330JA01#							
			36pF	±2%	GCG1550C1H360GA01#							
				±5%	GCG1550C1H360JA01#							
			39pF	±2%	GCG1550C1H390GA01#							
				±5%	GCG1550C1H390JA01#							
			43pF	±2%	GCG1550C1H430GA01#							
				±5%	GCG1550C1H430JA01#							
			47pF	±2%	GCG1550C1H470GA01#							
				±5%	GCG1550C1H470JA01#							
			51pF	±2%	GCG1550C1H510GA01#							
				±5%	GCG1550C1H510JA01#							
			56pF	±2%	GCG1550C1H560GA01#							
				±5%	GCG1550C1H560JA01#							
			62pF	±2%	GCG1550C1H620GA01#							
										±5%	GCG1550C1H620JA01#	
			68pF	±2%	GCG1550C1H680GA01#							
				±5%	GCG1550C1H680JA01#							
			75pF	±2%	GCG1550C1H750GA01#							
				±5%	GCG1550C1H750JA01#							
			82pF	±2%	GCG1550C1H820GA01#							
				±5%	GCG1550C1H820JA01#							
			91pF	±2%	GCG1550C1H910GA01#							
				±5%	GCG1550C1H910JA01#							
			100pF	±2%	GCG1550C1H101GA01#							
				±5%	GCG1550C1H101JA01#							
		X8G	1.0pF	±0.1pF	GCG1555G1H1R0BA01#							
				±0.25pF	GCG1555G1H1R0CA01#							
				±0.5pF	GCG1555G1H1R0DA01#							
			1.1pF	±0.1pF	GCG1555G1H1R1BA01#							
				±0.25pF	GCG1555G1H1R1CA01#							
				±0.5pF	GCG1555G1H1R1DA01#							
			1.2pF	±0.1pF	GCG1555G1H1R2BA01#							
				±0.25pF	GCG1555G1H1R2CA01#							
				±0.5pF	GCG1555G1H1R2DA01#							
			1.3pF	±0.1pF	GCG1555G1H1R3BA01#							
				±0.25pF	GCG1555G1H1R3CA01#							
				±0.5pF	GCG1555G1H1R3DA01#							
			1.4pF	±0.1pF	GCG1555G1H1R4BA01#							
					Lates the package specification	code						

(→ 1.0>	0.5mm	1)			
T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number
0.55mm	50Vdc	X8G	1.4pF	±0.25pF	GCG1555G1H1R4CA01#
				±0.5pF	GCG1555G1H1R4DA01#
			1.5pF	±0.1pF	GCG1555G1H1R5BA01#
				±0.25pF	GCG1555G1H1R5CA01#
				±0.5pF	GCG1555G1H1R5DA01#
			1.6pF	±0.1pF	GCG1555G1H1R6BA01#
				±0.25pF	GCG1555G1H1R6CA01#
				±0.5pF	GCG1555G1H1R6DA01#
			1.7pF	±0.1pF	GCG1555G1H1R7BA01#
				±0.25pF	GCG1555G1H1R7CA01#
				±0.5pF	GCG1555G1H1R7DA01#
			1.8pF	±0.1pF	GCG1555G1H1R8BA01#
				±0.25pF	GCG1555G1H1R8CA01#
				±0.5pF	GCG1555G1H1R8DA01#
			1.9pF	±0.1pF	GCG1555G1H1R9BA01#
				±0.25pF	GCG1555G1H1R9CA01#
				±0.5pF	GCG1555G1H1R9DA01#
			2.0pF	±0.1pF	GCG1555G1H2R0BA01#
			·	-	GCG1555G1H2R0CA01#
				-	GCG1555G1H2R0DA01#
			2.1pF		GCG1555G1H2R1BA01#
				-	GCG1555G1H2R1CA01#
				-	GCG1555G1H2R1DA01#
			2.2pF	±0.1pF	GCG1555G1H2R2BA01#
				-	GCG1555G1H2R2CA01#
				±0.5pF	GCG1555G1H2R2DA01#
			2.3pF	±0.1pF	GCG1555G1H2R3BA01#
				-	GCG1555G1H2R3CA01#
				<u> </u>	GCG1555G1H2R3DA01#
			2.4pF	±0.1pF	GCG1555G1H2R4BA01#
					GCG1555G1H2R4CA01#
				±0.5pF	GCG1555G1H2R4DA01#
			2.5pF	±0.1pF	GCG1555G1H2R5BA01#
					GCG1555G1H2R5CA01#
					GCG1555G1H2R5DA01#
			2.6pF		GCG1555G1H2R6BA01#
				_	GCG1555G1H2R6CA01#
					GCG1555G1H2R6DA01#
			2.7pF	· ·	GCG1555G1H2R7BA01#
				<u> </u>	GCG1555G1H2R7CA01#
				<u> </u>	
			2.8pF	±0.1pF	GCG1555G1H2R8BA01#
					GCG1555G1H2R8CA01#
				<u> </u>	GCG1555G1H2R8DA01#
			2.9pF	· ·	
			>pı	<u> </u>	GCG1555G1H2R9CA01#
				<u> </u>	GCG1555G1H2R9DA01#
			3.0pF	· ·	GCG1555G1H3R0BA01#
			J.0pi	<u> </u>	GCG1555G1H3R0CA01#
				±0.25pF	GCG1555G1H3R0DA01#
			3 1 n E		
			3.1pF	±0.1pF	GCG1555G1H3R1BA01# GCG1555G1H3R1CA01#
				<u> </u>	
			2 2-5		GCG1555G1H3R1DA01#
			3.2pF	±0.1pF	GCG1555G1H3R2BA01#

T max.         Rated Voltage         TC Code         Cap.         Tol.         Part Number           0.55mm         50Vdc         X8G         3.2pF         ±0.25pF         GCG1555G1H3R2CA	
	01#
±0.5pF <b>GCG1555G1H3R2DA</b>	01#
3.3pF ±0.1pF <b>GCG1555G1H3R3BA</b>	01#
±0.25pF GCG1555G1H3R3CA	01#
±0.5pF <b>GCG1555G1H3R3DA</b>	01#
3.4pF ±0.1pF <b>GCG1555G1H3R4BA</b>	01#
±0.25pF GCG1555G1H3R4CA	01#
±0.5pF <b>GCG1555G1H3R4DA</b>	01#
3.5pF ±0.1pF <b>GCG1555G1H3R5BA</b>	01#
±0.25pF GCG1555G1H3R5CA	01#
±0.5pF GCG1555G1H3R5DA	01#
3.6pF ±0.1pF <b>GCG1555G1H3R6BA</b>	01#
±0.25pF GCG1555G1H3R6CA	01#
±0.5pF GCG1555G1H3R6DA	01#
3.7pF ±0.1pF <b>GCG1555G1H3R7BA</b>	01#
±0.25pF GCG1555G1H3R7CA	01#
±0.5pF GCG1555G1H3R7DA	01#
3.8pF ±0.1pF <b>GCG1555G1H3R8BA</b>	01#
±0.25pF <b>GCG1555G1H3R8CA</b>	01#
±0.5pF GCG1555G1H3R8DA	
3.9pF ±0.1pF <b>GCG1555G1H3R9BA</b>	
±0.25pF GCG1555G1H3R9CA	
±0.5pF GCG1555G1H3R9DA	
4.0pF ±0.1pF <b>GCG1555G1H4R0BA</b>	
±0.25pF GCG1555G1H4R0CA	
±0.5pF GCG1555G1H4R0DA	
4.1pF ±0.1pF <b>GCG1555G1H4R1BA</b>	
±0.25pF GCG1555G1H4R1CA	
±0.5pF GCG1555G1H4R1DA	
4.2pF ±0.1pF <b>GCG1555G1H4R2BA</b>	
±0.25pF GCG1555G1H4R2CA	
±0.5pF GCG1555G1H4R2DA	
4.3pF ±0.1pF <b>GCG1555G1H4R3BA</b>	
±0.25pF GCG1555G1H4R3CA	
±0.5pF GCG1555G1H4R3DA	
4.4pF ±0.1pF GCG1555G1H4R4BA	
±0.25pF GCG1555G1H4R4CA	
±0.5pF GCG1555G1H4R4DA	
4.5pF ±0.1pF GCG1555G1H4R5BA ±0.25pF GCG1555G1H4R5CA	
, , , , , , , , , , , , , , , , , , ,	
±0.5pF GCG1555G1H4R5DA	
4.6pF ±0.1pF GCG1555G1H4R6BA	
±0.25pF GCG1555G1H4R6CA	
±0.5pF GCG1555G1H4R6DA	
4.7pF ±0.1pF GCG1555G1H4R7BA	
±0.25pF GCG1555G1H4R7CA	
±0.5pF GCG1555G1H4R7DA	
4.8pF ±0.1pF GCG1555G1H4R8BA	
±0.25pF GCG1555G1H4R8CA	
±0.5pF GCG1555G1H4R8DA	
4.9pF ±0.1pF <b>GCG1555G1H4R9BA</b>	
±0.25pF GCG1555G1H4R9CA	
±0.5pF <b>GCG1555G1H4R9DA</b>	
5.0pF ±0.1pF <b>GCG1555G1H5R0BA</b>	01#

GCM Series

(→ 1.0×0.5mm)									
T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number				
0.55mm	50Vdc	X8G	5.0pF	±0.25pF	GCG1555G1H5R0CA01#				
				±0.5pF	GCG1555G1H5R0DA01#				
			5.1pF	±0.1pF	GCG1555G1H5R1BA01#				
				±0.25pF	GCG1555G1H5R1CA01#				
				±0.5pF	GCG1555G1H5R1DA01#				
			5.2pF	±0.1pF	GCG1555G1H5R2BA01#				
				±0.25pF	GCG1555G1H5R2CA01#				
				±0.5pF	GCG1555G1H5R2DA01#				
			5.3pF	±0.1pF	GCG1555G1H5R3BA01#				
				±0.25pF	GCG1555G1H5R3CA01#				
				±0.5pF	GCG1555G1H5R3DA01#				
			5.4pF	±0.1pF	GCG1555G1H5R4BA01#				
				±0.25pF	GCG1555G1H5R4CA01#				
				±0.5pF	GCG1555G1H5R4DA01#				
			5.5pF	±0.1pF	GCG1555G1H5R5BA01#				
				±0.25pF	GCG1555G1H5R5CA01#				
				±0.5pF	GCG1555G1H5R5DA01#				
			5.6pF	±0.1pF	GCG1555G1H5R6BA01#				
				±0.25pF	GCG1555G1H5R6CA01#				
				±0.5pF	GCG1555G1H5R6DA01#				
			5.7pF	±0.1pF	GCG1555G1H5R7BA01#				
				±0.25pF	GCG1555G1H5R7CA01#				
				±0.5pF	GCG1555G1H5R7DA01#				
			5.8pF	±0.1pF	GCG1555G1H5R8BA01#				
				±0.25pF	GCG1555G1H5R8CA01#				
				±0.5pF	GCG1555G1H5R8DA01#				
			5.9pF	±0.1pF	GCG1555G1H5R9BA01#				
				±0.25pF	GCG1555G1H5R9CA01#				
				±0.5pF	GCG1555G1H5R9DA01#				
			6.0pF	±0.1pF	GCG1555G1H6R0BA01#				
				±0.25pF	GCG1555G1H6R0CA01#				
				±0.5pF	GCG1555G1H6R0DA01#				
			6.1pF	±0.1pF	GCG1555G1H6R1BA01#				
					GCG1555G1H6R1CA01#				
				-	GCG1555G1H6R1DA01#				
			6.2pF		GCG1555G1H6R2BA01#				
					GCG1555G1H6R2CA01#				
				±0.5pF	GCG1555G1H6R2DA01#				
			6.3pF	±0.1pF	GCG1555G1H6R3BA01#				
					GCG1555G1H6R3CA01#				
				· ·	GCG1555G1H6R3DA01#				
			6.4pF	· ·	GCG1555G1H6R4BA01#				
				-	GCG1555G1H6R4CA01#				
			C = = =	±0.5pF	GCG1555G1H6R4DA01#				
			6.5pF	±0.1pF	GCG1555G1H6R5BA01#				
				-	GCG1555G1H6R5CA01#				
			6.6-5	±0.5pF	GCG1555G1H6R5DA01#				
			6.6pF	±0.1pF	GCG1555G1H6R6BA01#				
				-	GCG1555G1H6R6CA01#				
			67-5		GCG1555G1H6R6DA01#				
			6.7pF	-	GCG1555G1H6R7BA01#				
				-	GCG1555G1H6R7CA01#				
			C 0:: =	±0.5pF	GCG1555G1H6R7DA01#				
			6.8pF	±0.1pF	GCG1555G1H6R8BA01#				

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number	
0.55mm	50Vdc	X8G	6.8pF	±0.25pF	GCG1555G1H6R8CA01#	
				±0.5pF	GCG1555G1H6R8DA01#	
			6.9pF	±0.1pF	GCG1555G1H6R9BA01#	
				±0.25pF	GCG1555G1H6R9CA01#	
				±0.5pF	GCG1555G1H6R9DA01#	
			7.0pF	±0.1pF	GCG1555G1H7R0BA01#	
				±0.25pF	GCG1555G1H7R0CA01#	
				±0.5pF	GCG1555G1H7R0DA01#	
			7.1pF		GCG1555G1H7R1BA01#	
					GCG1555G1H7R1CA01#	
					GCG1555G1H7R1DA01#	
			7.2pF		GCG1555G1H7R2BA01#	
					GCG1555G1H7R2CA01#	
					GCG1555G1H7R2DA01#	
			7.3pF		GCG1555G1H7R3BA01#	
					GCG1555G1H7R3CA01#	
					GCG1555G1H7R3DA01#	
			7.4pF	•	GCG1555G1H7R4BA01#	
					GCG1555G1H7R4CA01#	
			75.5		GCG1555G1H7R4DA01#	_
			7.5pF		GCG1555G1H7R5BA01#	
					GCG1555G1H7R5CA01#	
			7.6pF		GCG1555G1H7R5DA01# GCG1555G1H7R6BA01#	_
			7.0pr		GCG1555G1H7R6CA01#	
				· ·	GCG1555G1H7R6DA01#	
			7.7pF		GCG1555G1H7R7BA01#	
					GCG1555G1H7R7CA01#	
					GCG1555G1H7R7DA01#	
			7.8pF		GCG1555G1H7R8BA01#	
				±0.25pF	GCG1555G1H7R8CA01#	
				±0.5pF	GCG1555G1H7R8DA01#	
			7.9pF	±0.1pF	GCG1555G1H7R9BA01#	
				±0.25pF	GCG1555G1H7R9CA01#	
				±0.5pF	GCG1555G1H7R9DA01#	
			8.0pF	±0.1pF	GCG1555G1H8R0BA01#	
				±0.25pF	GCG1555G1H8R0CA01#	
				±0.5pF	GCG1555G1H8R0DA01#	
			8.1pF	±0.1pF	GCG1555G1H8R1BA01#	
				±0.25pF	GCG1555G1H8R1CA01#	
				±0.5pF	GCG1555G1H8R1DA01#	
			8.2pF	±0.1pF	GCG1555G1H8R2BA01#	
				±0.25pF	GCG1555G1H8R2CA01#	
				±0.5pF	GCG1555G1H8R2DA01#	
			8.3pF	-	GCG1555G1H8R3BA01#	
				-	GCG1555G1H8R3CA01#	
			<b>0</b> • -		GCG1555G1H8R3DA01#	
			8.4pF		GCG1555G1H8R4BA01#	
					GCG1555G1H8R4CA01#	
			0	-	GCG1555G1H8R4DA01#	_
			8.5pF		GCG1555G1H8R5BA01#	
				-	GCG1555G1H8R5CA01#	
			Q GpE		GCG1555G1H8R5DA01#	_
			8.6pF	±0.1pF	GCG1555G1H8R6BA01#	$\bot$

## 



0.55mm





(→ 1.0>	0.5mm	1)			
T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number
0.55mm	50Vdc	X8G	8.6pF	±0.25pF	GCG1555G1H8R6CA01#
				±0.5pF	GCG1555G1H8R6DA01#
			8.7pF	±0.1pF	GCG1555G1H8R7BA01#
				±0.25pF	GCG1555G1H8R7CA01#
				±0.5pF	GCG1555G1H8R7DA01#
			8.8pF	±0.1pF	GCG1555G1H8R8BA01#
				±0.25pF	GCG1555G1H8R8CA01#
				±0.5pF	GCG1555G1H8R8DA01#
			8.9pF	±0.1pF	GCG1555G1H8R9BA01#
				±0.25pF	GCG1555G1H8R9CA01#
				±0.5pF	GCG1555G1H8R9DA01#
			9.0pF	±0.1pF	GCG1555G1H9R0BA01#
				±0.25pF	GCG1555G1H9R0CA01#
				±0.5pF	GCG1555G1H9R0DA01#
			9.1pF	±0.1pF	GCG1555G1H9R1BA01#
				±0.25pF	GCG1555G1H9R1CA01#
				±0.5pF	GCG1555G1H9R1DA01#
			9.2pF	±0.1pF	GCG1555G1H9R2BA01#
				±0.25pF	GCG1555G1H9R2CA01#
				±0.5pF	GCG1555G1H9R2DA01#
			9.3pF	±0.1pF	GCG1555G1H9R3BA01#
				±0.25pF	GCG1555G1H9R3CA01#
				±0.5pF	GCG1555G1H9R3DA01#
			9.4pF	±0.1pF	GCG1555G1H9R4BA01#
				±0.25pF	GCG1555G1H9R4CA01#
				±0.5pF	GCG1555G1H9R4DA01#
			9.5pF	±0.1pF	GCG1555G1H9R5BA01#
				±0.25pF	GCG1555G1H9R5CA01#
				±0.5pF	GCG1555G1H9R5DA01#
			9.6pF	±0.1pF	GCG1555G1H9R6BA01#
				±0.25pF	GCG1555G1H9R6CA01#
				±0.5pF	GCG1555G1H9R6DA01#
			9.7pF	±0.1pF	GCG1555G1H9R7BA01#
				±0.25pF	GCG1555G1H9R7CA01#
				±0.5pF	GCG1555G1H9R7DA01#
			9.8pF	±0.1pF	GCG1555G1H9R8BA01#
				±0.25pF	GCG1555G1H9R8CA01#
				±0.5pF	GCG1555G1H9R8DA01#
			9.9pF	±0.1pF	GCG1555G1H9R9BA01#
					GCG1555G1H9R9CA01#
				±0.5pF	GCG1555G1H9R9DA01#
			10pF	±1%	GCG1555G1H100FA01#
				±2.5%	GCG1555G1H100RA01#
			4	±5%	GCG1555G1H100JA01#
			11pF	±2%	GCG1555G1H110GA01#
			12.5	±5%	GCG1555G1H110JA01#
			12pF	±2%	GCG1555G1H120GA01#
			12:-	±5%	GCG1555G1H120JA01#
			13pF	±2%	GCG1555G1H130GA01#
			15-5	±5%	GCG1555G1H130JA01#
			15pF	±2%	GCG1555G1H150GA01#
			16nF	±5%	GCG1555G1H150JA01#
			16pF	±2%	GCG1555G1H160GA01#
				±5%	GCG1555G1H160JA01#

	Rated	тс			5	
	Voltage	Code	Cap.	Tol.	Part Number	
٦	50Vdc	X8G	18pF	±2%	GCG1555G1H180GA01#	
				±5%	GCG1555G1H180JA01#	
			20pF	±2%	GCG1555G1H200GA01#	
				±5%	GCG1555G1H200JA01#	
			22pF	±2%	GCG1555G1H220GA01#	
				±5%	GCG1555G1H220JA01#	
			24pF	±2%	GCG1555G1H240GA01#	
				±5%	GCG1555G1H240JA01#	
			27pF	±2%	GCG1555G1H270GA01#	
				±5%	GCG1555G1H270JA01#	
			30pF	±2%	GCG1555G1H300GA01#	
				±5%	GCG1555G1H300JA01#	
			33pF	±2%	GCG1555G1H330GA01#	
				±5%	GCG1555G1H330JA01#	
			36pF	±2%	GCG1555G1H360GA01#	
				±5%	GCG1555G1H360JA01#	
			39pF	±2%	GCG1555G1H390GA01#	
				±5%	GCG1555G1H390JA01#	
			43pF	±2%	GCG1555G1H430GA01#	
				±5%	GCG1555G1H430JA01#	
			47pF	±2%	GCG1555G1H470GA01#	
				±5%	GCG1555G1H470JA01#	
			51pF	±2%	GCG1555G1H510GA01#	
				±5%	GCG1555G1H510JA01#	
			56pF	±2%	GCG1555G1H560GA01#	
				±5%	GCG1555G1H560JA01#	
			62pF	±2%	GCG1555G1H620GA01#	
				±5%	GCG1555G1H620JA01#	
			68pF	±2%	GCG1555G1H680GA01#	
				±5%	GCG1555G1H680JA01#	
			75pF	±2%	GCG1555G1H750GA01#	
				±5%	GCG1555G1H750JA01#	
			82pF	±2%	GCG1555G1H820GA01#	
				±5%	GCG1555G1H820JA01#	
			91pF	±2%	GCG1555G1H910GA01#	
				±5%	GCG1555G1H910JA01#	
			100pF	±2%	GCG1555G1H101GA01#	
				±5%	GCG1555G1H101JA01#	
			110pF	±2%	GCG1555G1H111GA01#	
				±5%	GCG1555G1H111JA01#	
			120pF	±2%	GCG1555G1H121GA01#	
				±5%	GCG1555G1H121JA01#	
			130pF	±2%	GCG1555G1H131GA01#	
				±5%	GCG1555G1H131JA01#	
			150pF	±2%	GCG1555G1H151GA01#	
				±5%	GCG1555G1H151JA01#	
			160pF	±2%	GCG1555G1H161GA01#	
				±5%	GCG1555G1H161JA01#	
			180pF	±2%	GCG1555G1H181GA01#	
				±5%	GCG1555G1H181JA01#	
			200pF	±2%	GCG1555G1H201GA01#	
				±5%	GCG1555G1H201JA01#	
			220pF	±2%	GCG1555G1H221GA01#	
				±5%	GCG1555G1H221JA01#	
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## Jul.1,2020

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(→ 1.0×0.5mm)

T max.	Rated Voltage	TC Code	Сар.	Tol.	Part Number	
0.55mm	50Vdc	X8G	240pF	±2%	GCG1555G1H241GA01#	
				±5%	GCG1555G1H241JA01#	
			270pF	±2%	GCG1555G1H271GA01#	
				±5%	GCG1555G1H271JA01#	
			300pF	±2%	GCG1555G1H301GA01#	
				±5%	GCG1555G1H301JA01#	
			330pF	±2%	GCG1555G1H331GA01#	
				±5%	GCG1555G1H331JA01#	
			360pF	±2%	GCG1555G1H361GA01#	
				±5%	GCG1555G1H361JA01#	
			390pF	±2%	GCG1555G1H391GA01#	
				±5%	GCG1555G1H391JA01#	
			430pF	±2%	GCG1555G1H431GA01#	
				±5%	GCG1555G1H431JA01#	
			470pF	±2%	GCG1555G1H471GA01#	
				±5%	GCG1555G1H471JA01#	

#### 1.6×0.8mm

T max.	Rated Voltage	TC Code	Сар.	Tol.	Part Number
0.9mm	100Vdc	U2J	1000pF	±5%	GCG1887U2A102JA01#
			1100pF	±5%	GCG1887U2A112JA01#
			1200pF	±5%	GCG1887U2A122JA01#
			1300pF	±5%	GCG1887U2A132JA01#
			1500pF	±5%	GCG1887U2A152JA01#
			1600pF	±5%	GCG1887U2A162JA01#
			1800pF	±5%	GCG1887U2A182JA01#
			2000pF	±5%	GCG1887U2A202JA01#
			2200pF	±5%	GCG1887U2A222JA01#
			2400pF	±5%	GCG1887U2A242JA01#
			2700pF	±5%	GCG1887U2A272JA01#
			3000pF	±5%	GCG1887U2A302JA01#
			3300pF	±5%	GCG1887U2A332JA01#
			3600pF	±5%	GCG1887U2A362JA01#
			3900pF	±5%	GCG1887U2A392JA01#
			4300pF	±5%	GCG1887U2A432JA01#
			4700pF	±5%	GCG1887U2A472JA01#
			5100pF	±5%	GCG1887U2A512JA01#
			5600pF	±5%	GCG1887U2A562JA01#
			6200pF	±5%	GCG1887U2A622JA01#
			6800pF	±5%	GCG1887U2A682JA01#
			7500pF	±5%	GCG1887U2A752JA01#
			8200pF	±5%	GCG1887U2A822JA01#
			9100pF	±5%	GCG1887U2A912JA01#
			10000pF	±5%	GCG1887U2A103JA01#
		X8G	10pF	±1%	GCG1885G2A100FA01#
				±2%	GCG1885G2A100GA01#
				±5%	GCG1885G2A100JA01#
			11pF	±1%	GCG1885G2A110FA01#
				±2%	GCG1885G2A110GA01#
				±5%	GCG1885G2A110JA01#
			12pF	±1%	GCG1885G2A120FA01#
				±2%	GCG1885G2A120GA01#

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number	
0.9mm	100Vdc	X8G	12pF	±5%	GCG1885G2A120JA01#	
			13pF	±1%	GCG1885G2A130FA01#	
			•	±2%	GCG1885G2A130GA01#	
				±5%	GCG1885G2A130JA01#	
			15pF	±1%	GCG1885G2A150FA01#	
				±2%	GCG1885G2A150GA01#	
				±5%	GCG1885G2A150JA01#	
			16pF	±1%	GCG1885G2A160FA01#	
				±2%	GCG1885G2A160GA01#	
				±5%	GCG1885G2A160JA01#	
			18pF	±1%	GCG1885G2A180FA01#	
				±2%	GCG1885G2A180GA01#	
				±5%	GCG1885G2A180JA01#	
			20pF	±1%	GCG1885G2A200FA01#	
				±2%	GCG1885G2A200GA01#	
				±5%	GCG1885G2A200JA01#	
			22pF	±1%	GCG1885G2A220FA01#	
				±2%	GCG1885G2A220GA01#	
				±5%	GCG1885G2A220JA01#	
			24pF	±1%	GCG1885G2A240FA01#	
				±2%	GCG1885G2A240GA01#	
				±5%	GCG1885G2A240JA01#	
			27pF	±1%	GCG1885G2A270FA01#	
				±2%	GCG1885G2A270GA01#	
				±5%	GCG1885G2A270JA01#	
			30pF	±1%	GCG1885G2A300FA01#	
				±2%	GCG1885G2A300GA01#	
				±5%	GCG1885G2A300JA01#	
			33pF	±1%	GCG1885G2A330FA01#	
				±2%	GCG1885G2A330GA01#	
				±5%	GCG1885G2A330JA01#	
			36pF	±1%	GCG1885G2A360FA01#	
				±2%	GCG1885G2A360GA01#	
				±5%	GCG1885G2A360JA01#	
			39pF	±1%	GCG1885G2A390FA01#	
				±2%	GCG1885G2A390GA01#	
				±5%	GCG1885G2A390JA01#	
			43pF	±1%	GCG1885G2A430FA01#	
				±2%	GCG1885G2A430GA01#	
			47.5	±5%	GCG1885G2A430JA01#	
			47pF	±1%	GCG1885G2A470FA01#	
				±2%	GCG1885G2A470GA01#	
			F1F	±5%	GCG1885G2A470JA01#	
			51pF	±1%	GCG1885G2A510FA01#	
				±2%	GCG1885G2A510GA01#	
			56pF	±5% ±1%	GCG1885G2A510JA01# GCG1885G2A560FA01#	
			John	±1% ±2%	GCG1885G2A560GA01#	
				±2 %	GCG1885G2A560JA01#	
			62pF	±1%	GCG1885G2A620FA01#	
			~-P'	±2%	GCG1885G2A620GA01#	
				±5%	GCG1885G2A620JA01#	
			68pF	±1%	GCG1885G2A680FA01#	
			-1	±2%	GCG1885G2A680GA01#	

Part number # indicates the package specification code.

GCM Series GR

es // GC3 Series //

s / GCQ series

GCE Series G

# GCG Series Temperature Compensating Type Fig. 2000 Part Number List

(→ 1.6	«0.8mm	1)			
T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number
0.9mm	100Vdc	X8G	68pF	±5%	GCG1885G2A680JA01#
			75pF	±1%	GCG1885G2A750FA01#
				±2%	GCG1885G2A750GA01#
				±5%	GCG1885G2A750JA01#
			82pF	±1%	GCG1885G2A820FA01#
				±2%	GCG1885G2A820GA01#
				±5%	GCG1885G2A820JA01#
			91pF	±1%	GCG1885G2A910FA01#
				±2%	GCG1885G2A910GA01#
				±5%	GCG1885G2A910JA01#
			100pF	±1%	GCG1885G2A101FA01#
				±2%	GCG1885G2A101GA01#
				±5%	GCG1885G2A101JA01#
			110pF	±1%	GCG1885G2A111FA01#
				±2%	GCG1885G2A111GA01#
				±5%	GCG1885G2A111JA01#
			120pF	±1%	GCG1885G2A121FA01#
				±2%	GCG1885G2A121GA01#
				±5%	GCG1885G2A121JA01#
			130pF	±1%	GCG1885G2A131FA01#
				±2%	GCG1885G2A131GA01#
				±5%	GCG1885G2A131JA01#
			150pF	±1%	GCG1885G2A151FA01#
				±2%	GCG1885G2A151GA01#
				±5%	GCG1885G2A151JA01#
			160pF	±1%	GCG1885G2A161FA01#
				±2%	GCG1885G2A161GA01#
				±5%	GCG1885G2A161JA01#
			180pF	±1%	GCG1885G2A181FA01#
				±2%	GCG1885G2A181GA01#
			200.5	±5%	GCG1885G2A181JA01#
			200pF	±1%	GCG1885G2A201FA01#
				±2%	GCG1885G2A201GA01#
			220-5	±5%	GCG1885G2A201JA01#
			220pF	±1%	GCG1885G2A221FA01#
				±2%	GCG1885G2A221GA01#
			240pF	±5%	GCG1885G2A221JA01# GCG1885G2A241FA01#
			240pF	±1% ±2%	GCG1885G2A241GA01#
				±5%	GCG1885G2A241JA01#
			270pF	±3 %	GCG1885G2A271FA01#
			270pi	±2%	GCG1885G2A271GA01#
				±5%	GCG1885G2A271JA01#
			300pF	±1%	GCG1885G2A301FA01#
			Зоорі	±2%	GCG1885G2A301GA01#
				±2 %	GCG1885G2A301JA01#
			330pF	±3 %	GCG1885G2A331FA01#
			23061	±2%	GCG1885G2A331GA01#
				±2 %	GCG1885G2A331JA01#
			360pF	±1%	GCG1885G2A361FA01#
			230pi	±2%	GCG1885G2A361GA01#
				±5%	GCG1885G2A361JA01#
			390pF	±1%	GCG1885G2A391FA01#
				±2%	GCG1885G2A391GA01#
					TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number	
0.9mm	100Vdc	X8G	390pF	±5%	GCG1885G2A391JA01#	
			430pF	±1%	GCG1885G2A431FA01#	
				±2%	GCG1885G2A431GA01#	
				±5%	GCG1885G2A431JA01#	
			470pF	±1%	GCG1885G2A471FA01#	
				±2%	GCG1885G2A471GA01#	
				±5%	GCG1885G2A471JA01#	
			510pF	±1%	GCG1885G2A511FA01#	
				±2%	GCG1885G2A511GA01#	
				±5%	GCG1885G2A511JA01#	
			560pF	±1%	GCG1885G2A561FA01#	
				±2%	GCG1885G2A561GA01#	
				±5%	GCG1885G2A561JA01#	
			620pF	±1%	GCG1885G2A621FA01#	
				±2%	GCG1885G2A621GA01#	
				±5%	GCG1885G2A621JA01#	
			680pF	±1%	GCG1885G2A681FA01#	
				±2%	GCG1885G2A681GA01#	
				±5%	GCG1885G2A681JA01#	
			750pF	±1%	GCG1885G2A751FA01#	
				±2%	GCG1885G2A751GA01#	
				±5%	GCG1885G2A751JA01#	
			820pF	±1%	GCG1885G2A821FA01#	
				±2%	GCG1885G2A821GA01#	
				±5%	GCG1885G2A821JA01#	
			910pF	±1%	GCG1885G2A911FA01#	
				±2%	GCG1885G2A911GA01#	
				±5%	GCG1885G2A911JA01#	
			1000pF	±1%	GCG1885G2A102FA01#	
				±2%	GCG1885G2A102GA01#	
				±5%	GCG1885G2A102JA01#	
	50Vdc	X8G	10pF	±1%	GCG1885G1H100FA01#	
				±2%	GCG1885G1H100GA01#	
				±5%	GCG1885G1H100JA01#	
			12pF	±2%	GCG1885G1H120GA01#	
				±5%	GCG1885G1H120JA01#	
			15pF	±2%	GCG1885G1H150GA01#	
				±5%	GCG1885G1H150JA01#	
			18pF	±2%	GCG1885G1H180GA01#	
				±5%	GCG1885G1H180JA01#	
			22pF	±2%	GCG1885G1H220GA01#	
				±5%	GCG1885G1H220JA01#	
			27pF	±2%	GCG1885G1H270GA01#	
				±5%	GCG1885G1H270JA01#	
			33pF	±2%	GCG1885G1H330GA01#	
				±5%	GCG1885G1H330JA01#	
			39pF	±2%	GCG1885G1H390GA01#	
				±5%	GCG1885G1H390JA01#	
			47pF	±2%	GCG1885G1H470GA01#	
				±5%	GCG1885G1H470JA01#	
			56pF	±2%	GCG1885G1H560GA01#	
			_	±5%	GCG1885G1H560JA01#	
			68pF	±2%	GCG1885G1H680GA01#	
				±5%	GCG1885G1H680JA01#	
			Part num	ber#indi	cates the package specification	code.

# GCG Series Temperature Compensating Type 🚟 🐯 🚾 Part Number List

#### (→ 1.6×0.8mm)

(→ 1.0	<b>VU.</b> 611111	')			
T max.	Rated Voltage	TC Code	Сар.	Tol.	Part Number
0.9mm	50Vdc	X8G	82pF	±2%	GCG1885G1H820GA01#
				±5%	GCG1885G1H820JA01#
			100pF	±2%	GCG1885G1H101GA01#
				±5%	GCG1885G1H101JA01#
			120pF	±2%	GCG1885G1H121GA01#
				±5%	GCG1885G1H121JA01#
			150pF	±2%	GCG1885G1H151GA01#
				±5%	GCG1885G1H151JA01#
			180pF	±2%	GCG1885G1H181GA01#
				±5%	GCG1885G1H181JA01#
			220pF	±2%	GCG1885G1H221GA01#
				±5%	GCG1885G1H221JA01#
			270pF	±2%	GCG1885G1H271GA01#
				±5%	GCG1885G1H271JA01#
			330pF 390pF	±2%	GCG1885G1H331GA01#
				±5%	GCG1885G1H331JA01#
				±2%	GCG1885G1H391GA01#
				±5%	GCG1885G1H391JA01#
			470pF	±2%	GCG1885G1H471GA01#
				±5%	GCG1885G1H471JA01#
			560pF	±2%	GCG1885G1H561GA01#
				±5%	GCG1885G1H561JA01#
			680pF	±2%	GCG1885G1H681GA01#
				±5%	GCG1885G1H681JA01#
			820pF	±2%	GCG1885G1H821GA01#
				±5%	GCG1885G1H821JA01#
			1000pF	±2%	GCG1885G1H102GA01#
				±5%	GCG1885G1H102JA01#
			1200pF	±2%	GCG1885G1H122GA01#
				±5%	GCG1885G1H122JA01#
			1500pF	±2%	GCG1885G1H152GA01#
				±5%	GCG1885G1H152JA01#
			1800pF	±2%	GCG1885G1H182GA01#
				±5%	GCG1885G1H182JA01#
			2200pF	±2%	GCG1885G1H222GA01#
				±5%	GCG1885G1H222JA01#

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number	
0.7mm	50Vdc	X8G	3300pF	±5%	GCG2165G1H332JA01#	
			3900pF	±2%	GCG2165G1H392GA01#	
				±5%	GCG2165G1H392JA01#	
			4700pF	±2%	GCG2165G1H472GA01#	
				±5%	GCG2165G1H472JA01#	
0.95mm	50Vdc	X8G	5600pF	±2%	GCG2195G1H562GA01#	
				±5%	GCG2195G1H562JA01#	
			6800pF	±2%	GCG2195G1H682GA01#	
				±5%	GCG2195G1H682JA01#	
			8200pF	±2%	GCG2195G1H822GA01#	
				±5%	GCG2195G1H822JA01#	
			10000pF	±2%	GCG2195G1H103GA01#	
				±5%	GCG2195G1H103JA01#	

#### 2.0×1.25mm

T max.	Rated Voltage	TC Code	Сар.	Tol.	Part Number	
0.7mm	50Vdc	X8G	1000pF	±2%	GCG2165G1H102GA01#	
				±5%	GCG2165G1H102JA01#	
			1200pF	±2%	GCG2165G1H122GA01#	
				±5%	GCG2165G1H122JA01#	
			1500pF	±2%	GCG2165G1H152GA01#	
				±5%	GCG2165G1H152JA01#	
			1800pF	±2%	GCG2165G1H182GA01#	
				±5%	GCG2165G1H182JA01#	
			2200pF	±2%	GCG2165G1H222GA01#	
				±5%	GCG2165G1H222JA01#	
			2700pF	±2%	GCG2165G1H272GA01#	
				±5%	GCG2165G1H272JA01#	
			3300pF	±2%	GCG2165G1H332GA01#	

# GCG Series High Dielectric Constant Type [ Con







#### 1.0×0.5mm

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number
).55mm	50Vdc	X8L	220pF	±10%	GCG155L81H221KA02#
			270pF	±10%	GCG155L81H271KA02#
			330pF	±10%	GCG155L81H331KA02#
			390pF	±10%	GCG155L81H391KA02#
			470pF	±10%	GCG155L81H471KA02#
			560pF	±10%	GCG155L81H561KA02#
			680pF	±10%	GCG155L81H681KA02#
			820pF	±10%	GCG155L81H821KA02#
			1000pF	±10%	GCG155L81H102KA02#
			1200pF	±10%	GCG155L81H122KA02#
			1500pF	±10%	GCG155L81H152KA02#
			1800pF	±10%	GCG155L81H182KA02#
			2200pF	±10%	GCG155L81H222KA02#
			2700pF	±10%	GCG155L81H272KA02#
			3300pF	±10%	GCG155L81H332KA02#
			3900pF	±10%	GCG155L81H392KA02#
			4700pF	±10%	GCG155L81H472KA02#
		X7R	220pF	±10%	GCG155R71H221KA01#
		XIII	ZZOPI	±20%	GCG155R71H221MA01#
			270nE	±10%	GCG155R71H271KA01#
			270pF		
			220.5	±20%	GCG155R71H271MA01#
			330pF	±10%	GCG155R71H331KA01#
				±20%	GCG155R71H331MA01#
			390pF	±10%	GCG155R71H391KA01#
				±20%	GCG155R71H391MA01#
			470pF	±10%	GCG155R71H471KA01#
				±20%	GCG155R71H471MA01#
			560pF	±10%	GCG155R71H561KA01#
				±20%	GCG155R71H561MA01#
			680pF	±10%	GCG155R71H681KA01#
				±20%	GCG155R71H681MA01#
			820pF	±10%	GCG155R71H821KA01#
				±20%	GCG155R71H821MA01#
			1000pF	±10%	GCG155R71H102KA01#
				±20%	GCG155R71H102MA01#
			1200pF	±10%	GCG155R71H122KA01#
				±20%	GCG155R71H122MA01#
			1500pF	±10%	GCG155R71H152KA01#
			1300рі	±10%	GCG155R71H152MA01#
			1800pF	±10%	GCG155R71H182KA01#
			1000br		
			2200-5	±20%	GCG155R71H182MA01#
			2200pF	±10%	GCG155R71H222KA01#
			2700 -	±20%	GCG155R71H222MA01#
			2700pF	±10%	GCG155R71H272KA01#
				±20%	GCG155R71H272MA01#
			3300pF	±10%	GCG155R71H332KA01#
				±20%	GCG155R71H332MA01#
			3900pF	±10%	GCG155R71H392KA01#
				±20%	GCG155R71H392MA01#
			4700pF	±10%	GCG155R71H472KA01#
				±20%	GCG155R71H472MA01#
		<del>                                     </del>			

Description							
6800pF				Сар.	Tol.	Part Number	
10000pf   10%	0.55mm	25Vdc	X8L	5600pF	±20%	GCG155L81E562MA01#	
S200pF				6800pF	±10%	GCG155L81E682KA01#	
10000pf   10%					±20%	GCG155L81E682MA01#	
10000pf   ±10%   GCG155L81E103MA01#   ±20%   GCG155R71E562MA01#   ±20%   GCG155R71E562MA01#   ±20%   GCG155R71E562MA01#   ±20%   GCG155R71E682MA01#   ±20%   GCG155R71E682MA01#   ±20%   GCG155R71E682MA01#   ±20%   GCG155R71E632MA01#   ±20%   GCG155R71E03MA01#   ±20%   GCG155R71E03MA01#   ±20%   GCG155R71E03MA01#   ±20%   GCG155R71E03MA01#   ±20%   GCG155R3MA01#   ±20%   GCG155R3MA01#   ±20%   GCG155R3MA01#   ±20%   GCG155R3MA01#   ±20%   GCG155L81C133MA01#   ±20%   GCG155L81C23MA01#   ±20%   GCG155L81C23MA01#   ±20%   GCG155L81C23MA01#   ±20%   GCG155L81C33MA01#   ±20%   GCG155L81C33MA01#   ±20%   GCG155L81C33MA01#   ±20%   GCG155L81C33MA01#   ±20%   GCG155L81C33MA01#   ±20%   GCG155L81C33MA01#   ±20%   GCG155L81C33MA01#   ±20%   GCG155L81C33MA01#   ±20%   GCG155L81C33MA01#   ±20%   GCG155L81C33MA01#   ±20%   GCG155L81C33MA01#   ±20%   GCG155L81C33MA01#   ±20%   GCG155L81C33MA01#   ±20%   GCG155R71C133MA01#   ±20%   GCG155R71C133MA01#   ±20%   GCG155R71C23MA01#   ±20%   GCG155R71C23MA01#   ±20%   GCG155R71C23MA01#   ±20%   GCG155R71C23MA01#   ±20%   GCG155R71C23MA01#   ±20%   GCG155R71C23MA01#   ±20%   GCG155R71C33MA01#   ±20%   GCG155R				8200pF	±10%	GCG155L81E822KA01#	
220%   GCG155L81E103MA01#   220%   GCG155R71E562KA01#   220%   GCG155R71E682KA01#   220%   GCG155R71E682KA01#   220%   GCG155R71E682KA01#   220%   GCG155R71E682KA01#   220%   GCG155R71E682KA01#   220%   GCG155R71E682KA01#   220%   GCG155R71E822MA01#   220%   GCG155R71E822MA01#   220%   GCG155R71E03MA01#   220%   GCG155R71E03MA01#   220%   GCG155R1E103MA01#   220%   GCG155L81C153MA01#   220%   GCG155L81C153MA01#   220%   GCG155L81C23MA01#   220%   GCG155L81C23MA01#   220%   GCG155L81C23MA01#   220%   GCG155L81C23MA01#   220%   GCG155L81C23MA01#   220%   GCG155L81C23MA01#   220%   GCG155L81C33MA01#   220%   GCG155L81C33MA01#   220%   GCG155L81C33MA01#   220%   GCG155L81C33MA01#   220%   GCG155L81C33MA01#   220%   GCG155L81C33MA01#   220%   GCG155L81C33MA01#   220%   GCG155L81C33MA01#   220%   GCG155L81C33MA01#   220%   GCG155L81C33MA01#   220%   GCG155R71C153KA01#   220%   GCG155R71C153KA01#   220%   GCG155R71C153KA01#   220%   GCG155R71C133KA01#   220%   GCG155R71C23MA01#   220%   GCG155R71C23MA01#   220%   GCG155R71C23MA01#   220%   GCG155R71C23MA01#   220%   GCG155R71C23MA01#   220%   GCG155R71C23MA01#   220%   GCG155R71C33MA01#   220%   GCG155R71C43MA01#   220%   GCG155R71C43MA01#   220%   GCG155R71C43MA01#   220%   GCG155R71C43MA01#   220%   GCG155R71C43MA01#   220%   GCG155R71C43MA01#   220%   GCG155R71C43MA01#   220							
X7R   5600pF   ±10%   GCG155R71E562KA01#   ±20%   GCG155R71E562MA01#   ±20%   GCG155R71E682KA01#   ±20%   GCG155R71E822KA01#   ±20%   GCG155R71E822MA01#   ±20%   GCG155R71E822MA01#   ±20%   GCG155R71E822MA01#   ±20%   GCG155R71E822MA01#   ±20%   GCG155R71E103MA01#   ±20%   GCG155R71E103MA01#   ±20%   GCG155R1E103MA01#   ±20%   GCG155R1E133MA01#   ±20%   GCG155R1E133MA01#   ±20%   GCG155R1E133MA01#   ±20%   GCG155R1E133MA01#   ±20%   GCG155R1C233MA01#   ±20%   GCG155L81C23MA01#   ±20%   GCG155L81C23MA01#   ±20%   GCG155L81C233MA01#   ±20%   GCG155L81C233MA01#   ±20%   GCG155L81C233MA01#   ±20%   GCG155L81C233MA01#   ±20%   GCG155L81C233MA01#   ±20%   GCG155L81C233MA01#   ±20%   GCG155L81C233MA01#   ±20%   GCG155L81C233MA01#   ±20%   GCG155L81C233MA01#   ±20%   GCG155L81C233MA01#   ±20%   GCG155R71C153MA01#   ±20%   GCG155R71C153MA01#   ±20%   GCG155R71C133MA01#   ±20%   GCG155R71C133MA01#   ±20%   GCG155R71C133MA01#   ±20%   GCG155R71C23MA01#   ±20%   GCG155R71C23MA01#   ±20%   GCG155R71C23MA01#   ±20%   GCG155R71C23MA01#   ±20%   GCG155R71C23MA01#   ±20%   GCG155R71C23MA01#   ±20%   GCG155R71C23MA01#   ±20%   GCG155R71C23MA01#   ±20%   GCG155R71C23MA01#   ±20%   GCG155R71C33MA01#   ±20%   GCG155R71C33MA01#   ±20%   GCG155R71C33MA01#   ±20%   GCG155R71C33MA01#   ±20%   GCG155R71C33MA01#   ±20%   GCG155R71C33MA01#   ±20%   GCG155R71C33MA01#   ±20%   GCG155R71C43MA01#   ±20%   GCG155R71C43MA01#   ±20%   GCG155R71C43MA01#   ±20%   GCG155R71C43MA01#   ±20%   GCG155R71C43MA01#   ±20%   GCG155R71C43MA01#   ±20%   GCG155R71C43MA01#   ±20%   GCG155R71C633MA01#   ±20%   GCG155R71C633MA01#   ±20%   GCG155R71C633MA01#   ±20%   GCG155R71C633MA01#   ±20%   GCG155R71C633MA01#   ±20%   GCG155R71C633MA01#   ±20%   GCG155R71C633MA01#   ±20%   GCG155R71C633MA01#   ±20%   GCG155R71C633MA01#   ±20%   GCG155R71C633MA01#   ±20%   GCG155R71C633MA01#   ±20%   GCG155R71C633MA01#   ±20%   GCG155R71C633MA01#   ±20%   GCG155R71C633MA01#   ±20%   GCG155R71C633MA01#   ±20%   GCG155R71C633MA01#   ±20%   GCG155R71C633MA01#   ±20%   GCG155R71				10000pF			
### ### ##############################							
6800pF   ±10%   GCG155R71E682KA01#   ±20%   GCG155R71E822KA01#   ±20%   GCG155R71E822KA01#   ±20%   GCG155R71E822KA01#   ±20%   GCG155R71E103KA01#   ±20%   GCG155R71E103KA01#   ±20%   GCG155L81C153KA01#   ±20%   GCG155L81C153KA01#   ±20%   GCG155L81C153KA01#   ±20%   GCG155L81C133KA01#   ±20%   GCG155L81C133KA01#   ±20%   GCG155L81C233KA01#   ±20%   GCG155L81C233KA01#   ±20%   GCG155L81C233KA01#   ±20%   GCG155L81C233KA01#   ±20%   GCG155L81C233KA01#   ±20%   GCG155L81C233KA01#   ±20%   GCG155L81C233KA01#   ±20%   GCG155L81C233KA01#   ±20%   GCG155L81C233KA01#   ±20%   GCG155L81C233KA01#   ±20%   GCG155L81C233KA01#   ±20%   GCG155L81C233KA01#   ±20%   GCG155L81C233KA01#   ±20%   GCG155L81C473KA01#   ±20%   GCG155L81C473KA01#   ±20%   GCG155L81C473KA01#   ±20%   GCG155R71C133KA01#   ±20%   GCG155R71C133KA01#   ±20%   GCG155R71C233KA01#   ±20%   GCG155R71C233KA01#   ±20%   GCG155R71C233KA01#   ±20%   GCG155R71C233KA01#   ±20%   GCG155R71C233KA01#   ±20%   GCG155R71C233KA01#   ±20%   GCG155R71C233KA01#   ±20%   GCG155R71C333KA01#   ±20%   GCG155R71C633KA01#   ±20%   GCG155R71C633KA01#   ±20%   GCG155R71C633KA01#   ±20%   GCG155R71C633KA01#   ±20%   GCG155R71C633KA01#   ±20%   GCG155R71C63			X7R	5600pF			
## ## ## ## ## ## ## ## ## ## ## ## ##				5000 5			
S200pF				6800pF			
### 10000pF							
10000pF ±10% GCG155R71E103KA01# ±20% GCG155R71E103MA01# 120% GCG155R71E103MA01# 18000pF ±10% GCG155L81C153MA01# ±20% GCG155L81C133MA01# ±20% GCG155L81C23MA01# ±20% GCG155L81C23MA01# ±20% GCG155L81C23MA01# ±20% GCG155L81C23MA01# ±20% GCG155L81C23MA01# ±20% GCG155L81C23MA01# ±20% GCG155L81C23MA01# ±20% GCG155L81C33MA01# ±20% GCG155L81C33MA01# ±20% GCG155L81C33MA01# ±20% GCG155L81C33MA01# ±20% GCG155L81C33MA01# ±20% GCG155L81C33MA01# ±20% GCG155L81C33MA01# ±20% GCG155L81C33MA01# ±20% GCG155L81C33MA01# ±20% GCG155R71C13MA01# ±20% GCG155R71C13MA01# ±20% GCG155R71C13MA01# ±20% GCG155R71C23MA01# ±20% GCG155R71C23MA01# ±20% GCG155R71C23MA01# ±20% GCG155R71C33MA01# ±20% GCG15SR71C33MA01# ±20% GCG155R71C33MA01# ±20% GCG155R71C33MA01# ±20% GCG155R71C33MA01# ±20% GCG155R71C33MA01# ±20% GCG155R71C33MA01# ±				8200pF			
16Vdc   X8L   15000pF   ±10%   GCG155L81C153KA01#   ±20%   GCG155L81C153MA01#   ±20%   GCG155L81C133KA01#   ±20%   GCG155L81C183MA01#   ±20%   GCG155L81C23MA01#   ±20%   GCG155L81C23MA01#   ±20%   GCG155L81C23MA01#   ±20%   GCG155L81C23MA01#   ±20%   GCG155L81C23MA01#   ±20%   GCG155L81C23MA01#   ±20%   GCG155L81C33MA01#   ±20%   GCG155L81C33MA01#   ±20%   GCG155L81C33MA01#   ±20%   GCG155L81C33MA01#   ±20%   GCG155L81C33MA01#   ±20%   GCG155L81C33MA01#   ±20%   GCG155L81C473MA01#   ±20%   GCG155L81C473MA01#   ±20%   GCG155R71C153MA01#   ±20%   GCG155R71C153MA01#   ±20%   GCG155R71C13MA01#   ±20%   GCG155R71C23MA01#   ±20%   GCG155R71C23MA01#   ±20%   GCG155R71C23MA01#   ±20%   GCG155R71C333MA01#   ±20%   GCG155R71C333MA01#   ±20%   GCG155R71C333MA01#   ±20%   GCG155R71C333MA01#   ±20%   GCG155R71C333MA01#   ±20%   GCG155R71C333MA01#   ±20%   GCG155R71C333MA01#   ±20%   GCG155R71C333MA01#   ±20%   GCG155R71C333MA01#   ±20%   GCG155R71C333MA01#   ±20%   GCG155R71C333MA01#   ±20%   GCG155R71C333MA01#   ±20%   GCG155R71C333MA01#   ±20%   GCG155R71C333MA01#   ±20%   GCG155R71C333MA01#   ±20%   GCG155R71C33MA01#							
16Vdc				10000pF			
### ##################################							
18000pF   ±10%   GCG155L81C183KA01#   ±20%   GCG155L81C223KA01#   ±20%   GCG155L81C223KA01#   ±20%   GCG155L81C223KA01#   ±20%   GCG155L81C273KA01#   ±20%   GCG155L81C273KA01#   ±20%   GCG155L81C333KA01#   ±20%   GCG155L81C333KA01#   ±20%   GCG155L81C333KA01#   ±20%   GCG155L81C333KA01#   ±20%   GCG155L81C333KA01#   ±20%   GCG155L81C333KA01#   ±20%   GCG155L81C393KA01#   ±20%   GCG155L81C393KA01#   ±20%   GCG155L81C373KA01#   ±20%   GCG155R71C153KA01#   ±20%   GCG155R71C153KA01#   ±20%   GCG155R71C183KA01#   ±20%   GCG155R71C23KA01#   ±20%   GCG155R71C23KA01#   ±20%   GCG155R71C23KA01#   ±20%   GCG155R71C333KA01#   ±20%   GCG155R71C333KA01#   ±20%   GCG155R71C333KA01#   ±20%   GCG155R71C333KA01#   ±20%   GCG155R71C333KA01#   ±20%   GCG155R71C333KA01#   ±20%   GCG155R71C333KA01#   ±20%   GCG155R71C333KA01#   ±20%   GCG155R71C333KA01#   ±20%   GCG155R71C563KA01#   ±20%   GCG155R71C563KA01#   ±20%   GCG155R71C563KA01#   ±20%   GCG155R71C563KA01#   ±20%   GCG155R71C563KA01#   ±20%   GCG155R71C563KA01#   ±20%   GCG155R71C563KA01#   ±20%   GCG155R71C563KA01#   ±20%   GCG15FR71C563KA01#   ±20%   GCG15FR71C683KA01#   ±20%   GCG15FR71C683KA01#   ±20%   GCG15FR71C683KA01#   ±20%   GCG15FR71C683KA01#   ±20%   GCG15FR71C683KA01#   ±20%   GCG15FR71C683KA01#   ±20%   GCG15FR71C683KA01#   ±20%   GCG15FR71C683KA01#   ±20%   GCG15FR71C683KA01#   ±20%   GCG15FR71C683KA01#   ±20%   GCG15FR71C683KA01#   ±20%   GCG15FR71C683KA01#   ±20%   GCG15FR71C683KA01#   ±20%   GCG15FR71C823K		16Vdc	X8L	15000pF			
### ### ##############################							
22000pF ±10% GCG155L81C223MA01# ±20% GCG155L81C273MA01# ±20% GCG155L81C273MA01# ±20% GCG155L81C273MA01# ±20% GCG155L81C333MA01# ±20% GCG155L81C333MA01# ±20% GCG155L81C333MA01# ±20% GCG155L81C333MA01# ±20% GCG155L81C333MA01# ±20% GCG155L81C33MA01# ±20% GCG155L81C33MA01# ±20% GCG155L81C33MA01# ±20% GCG155L81C473MA01# ±20% GCG155R71C153MA01# ±20% GCG155R71C153MA01# ±20% GCG155R71C133MA01# ±20% GCG155R71C23MA01# ±20% GCG155R71C23MA01# ±20% GCG155R71C23MA01# ±20% GCG155R71C273MA01# ±20% GCG155R71C273MA01# ±20% GCG155R71C273MA01# ±20% GCG155R71C333MA01# ±20% GCG155R71C333MA01# ±20% GCG155R71C333MA01# ±20% GCG155R71C333MA01# ±20% GCG155R71C333MA01# ±20% GCG155R71C33MA01# ±20% GCG155R71C33MA01# ±20% GCG155R71C33MA01# ±20% GCG155R71C33MA01# ±20% GCG155R71C33MA01# ±20% GCG155R71C63MA01# ±20% GCG155R71C63MA01# ±20% GCG155R71C63MA01# ±20% GCG155R71C63MA01# ±20% GCG155R71C63MA01# ±20% GCG155R71C63MA01# ±20% GCG155R71C63MA01# ±20% GCG155R71C63MA01# ±20% GCG155R71C63MA01# ±20% GCG155R71C63MA01# ±20% GCG155R71C63MA01# ±20% GCG155R71C63MA01# ±20% GCG155R71C83MA01# ±20% GCG155R71C				18000pF			
±20%   GCG155L81C223MA01#     ±20%   GCG155L81C273KA01#     ±20%   GCG155L81C333KA01#     ±20%   GCG155L81C333MA01#     ±20%   GCG155L81C333MA01#     ±20%   GCG155L81C333MA01#     ±20%   GCG155L81C333MA01#     ±20%   GCG155L81C333MA01#     ±20%   GCG155L81C333MA01#     ±20%   GCG155L81C473MA01#     ±20%   GCG155L81C473MA01#     ±20%   GCG155R71C153MA01#     ±20%   GCG155R71C153MA01#     ±20%   GCG155R71C183MA01#     ±20%   GCG155R71C23MA01#     ±20%   GCG155R71C23MA01#     ±20%   GCG155R71C273MA01#     ±20%   GCG155R71C273MA01#     ±20%   GCG155R71C273MA01#     ±20%   GCG155R71C333MA01#     ±20%   GCG155R71C333MA01#     ±20%   GCG155R71C333MA01#     ±20%   GCG155R71C333MA01#     ±20%   GCG155R71C333MA01#     ±20%   GCG155R71C333MA01#     ±20%   GCG155R71C333MA01#     ±20%   GCG155R71C333MA01#     ±20%   GCG155R71C333MA01#     ±20%   GCG155R71C333MA01#     ±20%   GCG155R71C333MA01#     ±20%   GCG155R71C333MA01#     ±20%   GCG155R71C333MA01#     ±20%   GCG155R71C333MA01#     ±20%   GCG155R71C33MA01#     ±20%   GCG155R71C33MA01#     ±20%   GCG155R71C33MA01#     ±20%   GCG155R71C33MA01#     ±20%   GCG155R71C33MA01#     ±20%   GCG155R71C33MA01#     ±20%   GCG155R71C33MA01#     ±20%   GCG155R71C33MA01#     ±20%   GCG155R71C33MA01#     ±20%   GCG155R71C33MA01#							
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±20% GCG155R71C473MA01#  56000pF ±10% GCG155R71C563KA01#  ±20% GCG155R71C563MA01#  68000pF ±10% GCG155R71C683KA01#  ±20% GCG155R71C683MA01#  82000pF ±10% GCG155R71C823KA01#  ±20% GCG155R71C823MA01#  ±20% GCG155R71C823MA01#					±20%	GCG155R71C393MA01#	
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±20% GCG155R71C104MA01#				0.10µF	±10%	GCG155R71C104KA01#	
					±20%	GCG155R71C104MA01#	

# GCG Series High Dielectric Constant Type [ Con







#### 1.6×0.8mm

T nax.	Rated Voltage	TC Code	Cap.	Tol.	Part Number	
mm	100Vdc	X8R	1000pF	±10%	GCG188R92A102KA01#	
				±20%	GCG188R92A102MA01#	
			1200pF	±10%	GCG188R92A122KA01#	
				±20%	GCG188R92A122MA01#	
			1500pF	±10%	GCG188R92A152KA01#	
				±20%	GCG188R92A152MA01#	
			1800pF	±10%	GCG188R92A182KA01#	
				±20%	GCG188R92A182MA01#	
			2200pF	±10%	GCG188R92A222KA01#	
				±20%	GCG188R92A222MA01#	
			2700pF	±10%	GCG188R92A272KA01#	
				±20%	GCG188R92A272MA01#	
			3300pF	±10%	GCG188R92A332KA01#	
				±20%	GCG188R92A332MA01#	
			3900pF	±10%	GCG188R92A392KA01#	
				±20%	GCG188R92A392MA01#	
			4700pF	±10%	GCG188R92A472KA01#	
				±20%	GCG188R92A472MA01#	
			5600pF	±10%	GCG188R92A562KA01#	
				±20%	GCG188R92A562MA01#	
			6800pF	±10%	GCG188R92A682KA01#	
				±20%	GCG188R92A682MA01#	
			8200pF	±10%	GCG188R92A822KA01#	
				±20%	GCG188R92A822MA01#	
			10000pF	±10%	GCG188R92A103KA01#	
				±20%	GCG188R92A103MA01#	
			12000pF	±10%	GCG188R92A123KA01#	
			12000р.	±20%	GCG188R92A123MA01#	
			15000pF	±10%	GCG188R92A153KA01#	
			Тэссорі	±20%	GCG188R92A153MA01#	
			18000pF	±10%	GCG188R92A183KA01#	
			10000pi	±20%	GCG188R92A183MA01#	
			22000pF	±10%	GCG188R92A223KA01#	
			22000pF	±10%	GCG188R92A223MA01#	
			27000pF	±20%	GCG188R92A273KA01#	
			27000pF		GCG188R92A273KA01#	
			330005	±20% ±10%	GCG188R92A273MA01#	
			33000pF		GCG188R92A333KA01#	
			39000pF	±20%		
			Sanoobe	±10%	GCG188R92A393KA01#	
			47000	±20%	GCG188R92A393MA01#	
			47000pF	±10%	GCG188R92A473KA01#	
			F 6000 -	±20%	GCG188R92A473MA01#	
			56000pF	±10%	GCG188R92A563KA01#	
			50055	±20%	GCG188R92A563MA01#	
			68000pF	±10%	GCG188R92A683KA01#	
			0.55	±20%	GCG188R92A683MA01#	
			0.10µF	±10%	GCG188R92A104KA03#	
				±20%	GCG188R92A104MA03#	_
	50Vdc	X8L	0.15µF	±10%	GCG188L8EH154KA07#	D4
			0.22µF	±10%	GCG188L8EH224KA07#	D4
	I	X8R	1000pF	±10%	GCG188R91H102KA03#	1

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number	
0.9mm	50Vdc	X8R	1200pF	±10%	GCG188R91H122KA03#	
				±20%	GCG188R91H122MA03#	
			1500pF	±10%	GCG188R91H152KA03#	
				±20%	GCG188R91H152MA03#	
			1800pF	±10%	GCG188R91H182KA03#	
				±20%	GCG188R91H182MA03#	
			2200pF	±10%	GCG188R91H222KA03#	
				±20%	GCG188R91H222MA03#	
			2700pF	±10%	GCG188R91H272KA03#	
				±20%	GCG188R91H272MA03#	
			3300pF	±10%	GCG188R91H332KA03#	
				±20%	GCG188R91H332MA03#	
			3900pF	±10%	GCG188R91H392KA03#	
				±20%	GCG188R91H392MA03#	
			4700pF	±10%	GCG188R91H472KA03#	
				±20%	GCG188R91H472MA03#	
			5600pF	±10%	GCG188R91H562KA03#	
			зосорі	±20%	GCG188R91H562MA03#	
			6800pF	±10%	GCG188R91H682KA03#	
			овоорг	±10%	GCG188R91H682MA03#	
			920055	±10%	GCG188R91H822KA03#	
			8200pF	±10% ±20%		
			10000-5		GCG188R91H822MA03#	
			10000pF	±10%	GCG188R91H103KA03#	
			15000.5	±20%	GCG188R91H103MA03#	
			15000pF	±10%	GCG188R91H153KA03#	
			22222 5	±20%	GCG188R91H153MA03#	
			22000pF	±10%	GCG188R91H223KA03#	
				±20%	GCG188R91H223MA03#	
			33000pF	±10%	GCG188R91H333KA03#	
				±20%	GCG188R91H333MA03#	
			47000pF	±10%	GCG188R91H473KA03#	
				±20%	GCG188R91H473MA03#	
			0.10µF	±10%	GCG188R91H104KA01#	
				±20%	GCG188R91H104MA01#	
			0.12µF	±10%	GCG188R91H124KA01#	
				±20%	GCG188R91H124MA01#	
			0.15µF	±10%	GCG188R91H154KA01#	
				±20%	GCG188R91H154MA01#	
			0.18µF	±10%	GCG188R91H184KA01#	
				±20%	GCG188R91H184MA01#	
			0.22µF	±10%	GCG188R91H224KA01#	
				±20%	GCG188R91H224MA01#	
		X7R	0.15µF	±10%	GCG188R71H154KA01#	
				±20%	GCG188R71H154MA01#	
			0.22µF	±10%	GCG188R71H224KA01#	
				±20%	GCG188R71H224MA01#	
	25Vdc	X8R	0.33µF	±10%	GCG188R91E334KA01#	
				±20%	GCG188R91E334MA01#	
			0.39µF	±10%	GCG188R91E394KA01#	
				±20%	GCG188R91E394MA01#	
			0.47µF	±10%	GCG188R91E474KA01#	
				±20%	GCG188R91E474MA01#	
		X7R	0.12µF	±5%	GCG188R71E124JA12#	
				±10%	GCG188R71E124KA12#	
			Doub noon	المماثلة بمما	catos the package specification	

#### -

## GCG Series High Dielectric Constant Type (Constant

(→ 1.6×0.8mm)

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number	
0.9mm	25Vdc	X7R	0.12µF	±20%	GCG188R71E124MA12#	
			0.15µF	±5%	GCG188R71E154JA12#	
				±10%	GCG188R71E154KA12#	
				±20%	GCG188R71E154MA12#	
			0.18µF	±5%	GCG188R71E184JA12#	
				±10%	GCG188R71E184KA12#	
				±20%	GCG188R71E184MA12#	
			0.22µF	±5%	GCG188R71E224JA12#	
				±10%	GCG188R71E224KA12#	
				±20%	GCG188R71E224MA12#	
	16Vdc X8	X8L	0.15µF	±10%	GCG188L81C154KA01#	
				±20%	GCG188L81C154MA01#	
			0.22µF	±10%	GCG188L81C224KA01#	
				±20%	GCG188L81C224MA01#	
			1.0µF	±10%	GCG188L8EE105KA07#	D4
		X7R	1.0µF	±10%	GCG188R71C105KA01#	
				±20%	GCG188R71C105MA01#	
	10Vdc	X7S	2.2µF	±10%	GCG188C71A225KE01#	
				±20%	GCG188C71A225ME01#	
	6.3Vdc	X7R	2.2µF	±10%	GCG188R70J225KE01#	
				±20%	GCG188R70J225ME01#	

#### 2.0×1.25mm

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number	
1.45mm	50Vdc	X8L	1.0µF	±10%	GCG21BL8EH105KA07#	D4
		X7R	0.15µF	±5%	GCG21BR71H154JA01#	
				±10%	GCG21BR71H154KA01#	
				±20%	GCG21BR71H154MA01#	
			0.18µF	±5%	GCG21BR71H184JA01#	
				±10%	GCG21BR71H184KA01#	
				±20%	GCG21BR71H184MA01#	
			0.22µF	±5%	GCG21BR71H224JA01#	
				±10%	GCG21BR71H224KA01#	
				±20%	GCG21BR71H224MA01#	
			0.33µF	±10%	GCG21BR71H334KA01#	
				±20%	GCG21BR71H334MA01#	
			0.47µF	±10%	GCG21BR71H474KA01#	
				±20%	GCG21BR71H474MA01#	
			1.0µF	±10%	GCG21BR71H105KA01#	
				±20%	GCG21BR71H105MA01#	
	35Vdc	X8L	0.68µF	±10%	GCG21BL8EG684KA07#	D4
			1.0µF	±10%	GCG21BL8EG105KA07#	D4
		X7R	0.68µF	±10%	GCG21BR7YA684KA01#	
				±20%	GCG21BR7YA684MA01#	
			1.0µF	±10%	GCG21BR7YA105KA01#	
				±20%	GCG21BR7YA105MA01#	
	25Vdc	X8L	0.33µF	±10%	GCG21BL81E334KA01#	
				±20%	GCG21BL81E334MA01#	
		X8R	0.68µF	±10%	GCG21BR91E684KE01#	
				±20%	GCG21BR91E684ME01#	
			0.82µF	±10%	GCG21BR91E824KE01#	
			-	±20%	GCG21BR91E824ME01#	
	1					

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number	
.45mm	25Vdc	X8R	1.0µF	±10%	GCG21BR91E105KE01#	<u> </u>
				±20%	GCG21BR91E105ME01#	$\perp$
		X7R	0.27µF	±5%	GCG21BR71E274JA01#	<u> </u>
				±10%	GCG21BR71E274KA01#	
				±20%	GCG21BR71E274MA01#	$\perp$
			0.33µF	±5%	GCG21BR71E334JA01#	$oxed{oxed}$
				±10%	GCG21BR71E334KA01#	<u> </u>
				±20%	GCG21BR71E334MA01#	
			0.39µF	±5%	GCG21BR71E394JA01#	
				±10%	GCG21BR71E394KA01#	
				±20%	GCG21BR71E394MA01#	
			0.47µF	±5%	GCG21BR71E474JA01#	
				±10%	GCG21BR71E474KA01#	
				±20%	GCG21BR71E474MA01#	
			0.56µF	±5%	GCG21BR71E564JA01#	
				±10%	GCG21BR71E564KA01#	
				±20%	GCG21BR71E564MA01#	
			0.68µF	±5%	GCG21BR71E684JA01#	
				±10%	GCG21BR71E684KA01#	
				±20%	GCG21BR71E684MA01#	
			0.82µF	±5%	GCG21BR71E824JA01#	
				±10%	GCG21BR71E824KA01#	
				±20%	GCG21BR71E824MA01#	
			1.0µF	±5%	GCG21BR71E105JA12#	
				±10%	GCG21BR71E105KA12#	
				±20%	GCG21BR71E105MA12#	
	16Vdc	X8L	0.33µF	±10%	GCG21BL81C334KA01#	
				±20%	GCG21BL81C334MA01#	
			0.39µF	±10%	GCG21BL81C394KA01#	
				±20%	GCG21BL81C394MA01#	
			0.47µF	±10%	GCG21BL81C474KA01#	
				±20%	GCG21BL81C474MA01#	
			0.56µF	±10%	GCG21BL81C564KA01#	
				±20%	GCG21BL81C564MA01#	
			0.68µF	±10%	GCG21BL81C684KA01#	
				±20%	GCG21BL81C684MA01#	
			0.82µF	±10%	GCG21BL81C824KA01#	
				±20%	GCG21BL81C824MA01#	
		X7R	4.7µF	±10%	GCG21BR71C475KA12#	
	10Vdc	X7R	10µF	±10%	GCG21BR71A106KE01#	
				±20%	GCG21BR71A106ME01#	
	6.3Vdc	X8L	10µF	±10%	GCG21BL8EC106KE07#	D4
		X7R	10µF	±10%	GCG21BR70J106KE01#	
				±20%	GCG21BR70J106ME01#	

#### 3.2×1.6mm

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number	
1.35mm	50Vdc	X8R	0.22µF	±10%	GCG31MR91H224KA03#	
				±20%	GCG31MR91H224MA03#	
			0.33µF	±10%	GCG31MR91H334KA03#	
				±20%	GCG31MR91H334MA03#	
	25Vdc	X7R	1.2µF	±5%	GCG31MR71E125JA01#	

Part number # indicates the package specification code.

## GCG Series High Dielectric Constant Type 🚟 🎉 Part Number List









(→ 3.2×1.6mm)					
T max.	Rated Voltage	TC Code	Сар.	Tol.	Part Number
1.35mm	25Vdc	X7R	1.2µF	±10%	GCG31MR71E125KA01#
				±20%	GCG31MR71E125MA01#
			1.5µF	±5%	GCG31MR71E155JA01#
				±10%	GCG31MR71E155KA01#
				±20%	GCG31MR71E155MA01#
			2.2µF	±5%	GCG31MR71E225JA12#
				±10%	GCG31MR71E225KA12#
				±20%	GCG31MR71E225MA12#
	16Vdc	X8L	1.0µF	±10%	GCG31ML81C105KA01#
				±20%	GCG31ML81C105MA01#
			1.5µF	±10%	GCG31ML81C155KA01#
				±20%	GCG31ML81C155MA01#
1.9mm	25Vdc	X8R	1.0µF	±10%	GCG31CR91E105KA03#
				±20%	GCG31CR91E105MA03#
		X7R	3.3µF	±5%	GCG31CR71E335JA01#
				±10%	GCG31CR71E335KA01#
				±20%	GCG31CR71E335MA01#
			3.9µF	±5%	GCG31CR71E395JA01#
				±10%	GCG31CR71E395KA01#
				±20%	GCG31CR71E395MA01#
			4.7µF	±5%	GCG31CR71E475JA01#
				±10%	GCG31CR71E475KA01#
				±20%	GCG31CR71E475MA01#
	16Vdc	X8L	3.3µF	±10%	GCG31CL81C335KA01#
				±20%	GCG31CL81C335MA01#
			4.7µF	±10%	GCG31CL81C475KA01#
				±20%	GCG31CL81C475MA01#
		X8R	0.68µF	±10%	GCG31CR91C684KA01#
				±20%	GCG31CR91C684MA01#
			1.0µF	±10%	GCG31CR91C105KA01#
				±20%	GCG31CR91C105MA01#
	6.3Vdc	X7R	22µF	±10%	GCG31CR70J226KE01#
				±20%	GCG31CR70J226ME01#

#### 3.2×2.5mm

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number	
2.8mm	50Vdc	X8L	10µF	±10%	GCG32EL8EH106KA07#	D4
		X7S	10μF	±10%	GCG32EC71H106KA01#	
				±20%	GCG32EC71H106MA01#	
	35Vdc	X8L	10µF	±10%	GCG32EL8EG106KA07#	D4
		X7S	10µF	±10%	GCG32EC7YA106KA01#	
				±20%	GCG32EC7YA106MA01#	
	25Vdc	X8L	22µF	±10%	GCG32EL8EF226KE07#	D4
		X7R	10µF	±10%	GCG32ER71E106KA12#	
				±20%	GCG32ER71E106MA12#	
		X7S	22µF	±10%	GCG32EC71E226KE01#	
	16Vdc	X8R	6.8µF	±10%	GCG32ER91C685KE01#	
				±20%	GCG32ER91C685ME01#	
			10µF	±10%	GCG32ER91C106KE01#	
				±20%	GCG32ER91C106ME01#	
	6.3Vdc	X7R	47µF	±10%	GCG32ER70J476KE01#	
				±20%	GCG32ER70J476ME01#	

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## **⚠** Caution/Notice



## Target series: GRT, GCM, GC3, GCJ, GCQ, GCD, GCE, NFM, KCM, KC3, KCA, GCB, GCG

## **⚠**Caution

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## $\mathop{igartheta} olimits \mathsf{Caution}$

#### **Storage and Operation Conditions**

1. The performance of chip multilayer ceramic capacitors (henceforth just "capacitors") may be affected by the storage conditions.

Please use them promptly after delivery.

1-1. Maintain appropriate storage for the capacitors using the following conditions:

Room Temperature of +5°C to +40°C and a Relative Humidity of 20% to 70%.

High temperature and humidity conditions and/or prolonged storage may cause deterioration of the packaging materials. If more than six months have elapsed since delivery, check packaging, mounting, etc. before use.

In addition, this may cause oxidation of the electrodes. If more than one year has elapsed since delivery, also check the solderability before use.

- 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 huimidity conditions

#### <Applicable to GCG Series>

1-4. After unpacking, immediately reseal, or store in a desiccator containing a desiccant.

#### Rating

#### 1. Temperature Dependent Characteristics

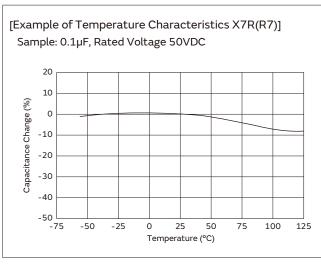
- 1. The electrical characteristics of a capacitor can change with temperature.
  - 1-1. For capacitors having larger temperature dependency, the capacitance may change with temperature changes.

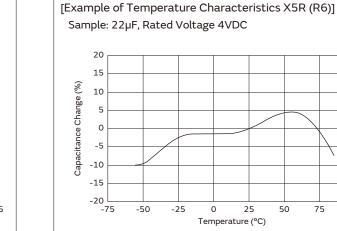
The following actions are recommended in order to ensure suitable capacitance values.

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

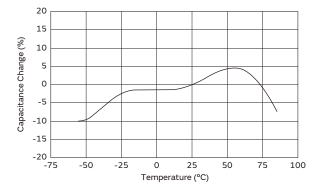
(2) The capacitance may change within the rated temperature.

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 temperature characteristics, and carefully confirm the various characteristics in actual use conditions and the actual system.





## Sample: 22µF, Rated Voltage 4VDC



#### 2. Measurement of Capacitance

- 1. Measure capacitance with the voltage and 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.

Continued on the following page. 7

Continued from the preceding page.

#### 3. Applied Voltage and Applied Current

- 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	0	E

(E: Maximum possible applied voltage.)

#### 1-2. Influence of over voltage

Over voltage 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.

 Use a safety standard certified capacitor in a power supply input circuit (AC filter), as it is also necessary to consider the withstand voltage and impulse withstand voltage defined for each device.

## <Applicable to NFM Series>

3. The capacitors also have rated currents.

The current flowing between the terminals of a capacitor shall be less than or equal to the rated current. Using the capacitor beyond this range could lead to excessive heat.

#### 4. Type of Applied Voltage and Self-heating Temperature

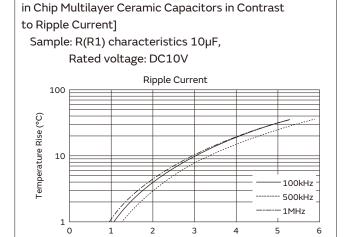
 Confirm the operating conditions to make sure that no large current is flowing into the capacitor due to the continuous application of an AC voltage or pulse voltage.

When a DC rated voltage product is used in an AC voltage circuit or a pulse voltage circuit, the AC current or pulse current will flow into the capacitor; therefore check the self-heating condition.

Please confirm the surface temperature of the capacitor so that the temperature remains within the upper limits of the operating temperature, including the rise in temperature due to self-heating. When the capacitor is used with a high-frequency voltage or pulse voltage, heat may be generated by dielectric loss.

#### <Applicable to Rated Voltage of less than 100VDC>

1-1. The load should be contained so that the self-heating of the capacitor body remains below 20°C, when measuring at an ambient temperature of 25°C.



Current (Ar.m.s.)

[Example of Temperature Rise (Heat Generation)

Continued on the following page. 🖊

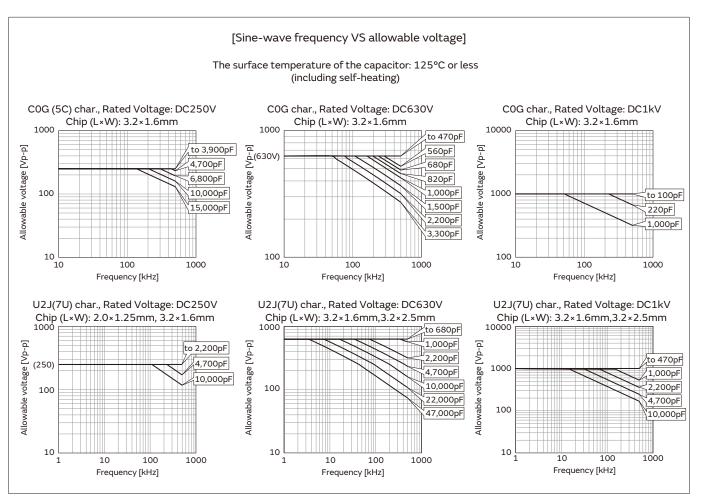
Continued from the preceding page.

#### <Applicable to Temperature Characteristics X7R(R7), X7T(D7) beyond Rated Voltage of 250VDC>

1-2. The load should be contained so that the self-heating of the capacitor body remains below 20°C, when measuring at an ambient temperature of 25°C. In addition, use a K thermocouple of ø0.1mm with less heat capacity when measuring, and measure in a condition where there is no effect from the radiant heat of other components or air flow caused by convection. Excessive generation of heat may cause deterioration of the characteristics and reliability of the capacitor. (Absolutely do not perform measurements while the cooling fan is operating, as an accurate measurement may not be performed.)

#### <Applicable to Temperature Characteristics U2J(7U), C0G(5C) beyond Rated Voltage of 250VDC>

1-3. Since the self-heating is low in the low loss series, the allowable power becomes extremely high compared to the common X7R(R7) characteristics. However, when a load with self-heating of 20°C is applied at the rated voltage, the allowable power may be exceeded. When the capacitor is used in a high-frequency voltage circuit of 1kHz or more, the frequency of the applied voltage should be less than 500kHz sine wave (less than 100kHz for a product with rated voltage of DC3.15kV), to limit the voltage load so that the load remains within the derating shown in the following figure. In the case of non-sine wave, high-frequency components exceeding the fundamental frequency may be included. In such a case, please contact Murata. The excessive generation of heat may cause deterioration of the characteristics and reliability of the capacitor. (Absolutely do not perform measurements while the cooling fan is operating, as an accurate measurement may not be performed.)

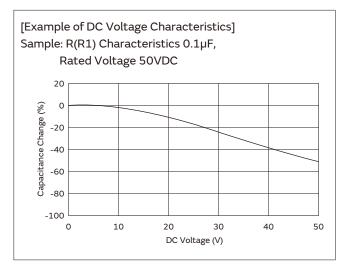


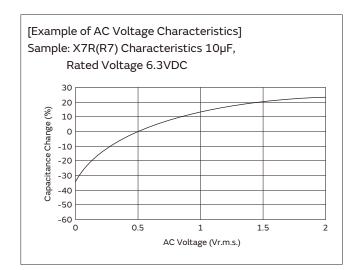
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#### 5. DC Voltage and AC Voltage Characteristics

- 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 figure). 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 used in a circuit that requires a tight (narrow) capacitance tolerance (e.g., a time constant circuit), please carefully consider the voltage characteristics, and confirm the various characteristics in the actual operating conditions of the system.
- The capacitance values of high dielectric constant type capacitors changes depending on the AC voltage applied.
   Please consider the AC voltage characteristics when selecting a capacitor to be used in an AC circuit.

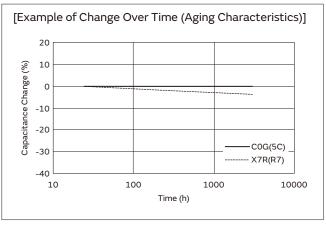




#### 6. Capacitance Aging

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

When you use 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.

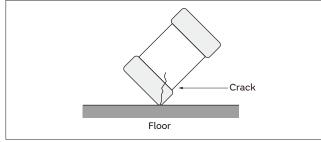


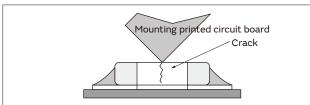
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#### 7. Vibration and Shock

- 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

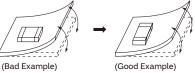
- 1. Confirm the best mounting position and direction that minimizes the stress imposed on the capacitor during flexing or bending the printed circuit board.
  - 1-1. Choose a mounting position that minimizes the stress imposed on the chip during flexing or bending of the board.

#### <Applicable to NFM Series>

If you mount the capacitor near components that generate heat, take note of the heat from the other components and carefully check the self-heating of the capacitor before using.

If there is significant heat radiation from other components, it could lower the insulation resistance of the capacitor or produce excessive heat.

## [Component Direction]



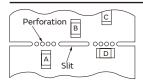
Locate chip horizontal to the direction in which stress acts.

#### [Chip Mounting Close to Board Separation Point]

It is effective to implement the following measures, to reduce stress in separating the board.

It is best to implement all of the following three measures; however, implement as many measures as possible to reduce stress.

Contents of Measures	Stress Level
(1) Turn the mounting direction of the component parallel to the board separation surface.	A > D *1
(2) Add slits in the board separation part.	A > B
(3) Keep the mounting position of the component away from the board separation surface.	A > C

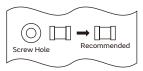


 ${\bf *1}$  A > D is valid when stress is added vertically to the perforation as with Hand Separation.

If a Cutting Disc is used, stress will be diagonal to the PCB, therefore A > D is invalid

#### [Mounting Capacitors Near Screw Holes]

When a capacitor is mounted near a screw hole, it may be affected by the board deflection that occurs during the tightening of the screw. Mount the capacitor in a position as far away from the screw holes as possible.



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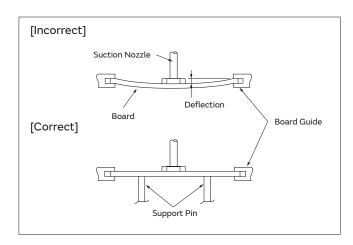
#### 2. Information before Mounting

- 1. Do not re-use 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.
- We have also produced a DVD which shows a summary of our recommendations, regarding the precautions for mounting. Please contact our sales representative to request the DVD.

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

- Make sure that the following excessive forces are not applied to the capacitors. Check the mounting in the actual device under actual use conditions ahead of time.
  - 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 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. Dirt particles and dust accumulated in the suction nozzle and suction mechanism prevent the nozzle from moving smoothly. This creates excessive force on the capacitor 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.



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#### 4-1. Reflow Soldering

- 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.
   Preheating conditions are shown in table 1. It is required to keep the temperature differential between the solder and the components surface (ΔT) as small as possible.
- 2. When components are immersed in solvent after mounting, be sure to maintain the temperature difference ( $\Delta T$ ) between the component and the solvent within the range shown in table 1.

Table 1

Series	Chip Dimension Code (L/W)	Temperature Differential
GRT/GCM/GC3/GCD/GCE/GCJ/NFM	03/15/18/21/31	ΔΤ≦190°C
GRT/GCM/GCJ	32/43/55	AT(12000
KCM/KC3/KCA	55	ΔT≦130°C

#### **Recommended Conditions**

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

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

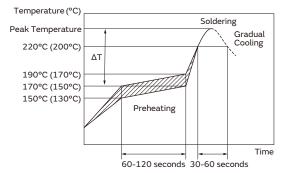
- 3. When a capacitor is mounted at a temperature lower than the peak reflow temperature recommended by the solder manufacturer, the following quality problems can occur. Consider factors such as the placement of peripheral components and the reflow temperature setting to prevent the capacitor's reflow temperature from dropping below the peak temperature specified. Be sure to evaluate the mounting situation beforehand and verify that none of the following problems occur.
  - Drop in solder wettability
  - Solder voids
  - Possible occurrence of whiskering
  - Drop in bonding strength
  - Drop in self-alignment properties
  - Possible occurrence of tombstones and/or shifting on the land patterns of the circuit board
- 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.

#### Inverting the PCB

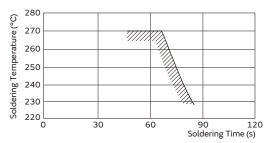
Make sure not to impose any abnormal mechanical shocks to the PCB.

## $[{\sf Example}\ of\ {\sf Temperature}\ {\sf Conditions}\ for\ {\sf Reflow}\ {\sf Soldering}]$



Temperature Incase of Lead Free Solder ( ): In case of Pb-Sn Solder

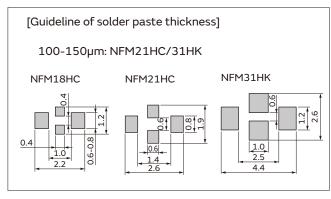
#### [Allowable Reflow Soldering Temperature and Time]



In the case of repeated soldering, the accumulated soldering time must be within the range shown above.

- 4-2. Too little solder paste results in a lack of adhesive strength on the termination, which may result in chips breaking loose from the PCB.
- 4-3. Please confirm that solder has been applied smoothly to the termination.

#### <Applicable to NFM Series>



## riangleCaution

Continued from the preceding page.

#### 4-2. Flow Soldering

1. Do not apply flow soldering to chips not listed in table 2.

#### Table 2

Series	Chip Dimension Code (L/W)	Temperature Differential	
GRT/GCM/GC3/GCD (Except for characteristics of X8L(L8), X8G(5G), CHA(0C), X8R(R9))			
GCJ (Rated Voltage 250VDC or more)	18/21/31	ΔΤ≦150°C	
NFM			

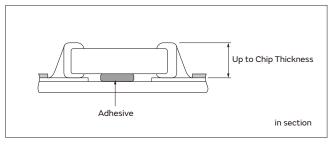
- 2. When sudden heat is applied to the components, the mechanical strength of the components will decrease because a sudden temperature change causes deformation inside the components. In order to prevent mechanical damage to the components, preheating is required for both of the components and the PCB. Preheating conditions are shown in table 2. It is required to keep the temperature differential between the solder and the components surface ( $\Delta T$ ) as low as possible.
- 3. Excessively long soldering time or high soldering temperature can result in leaching of the terminations, causing poor adhesion or a reduction in capacitance value due to loss of contact between the inner electrodes and terminations.
- 4. When components are immersed in solvent after mounting, be sure to maintain the temperature differential ( $\Delta T$ ) between the component and solvent within the range shown in the table 2.

#### **Recommended Conditions**

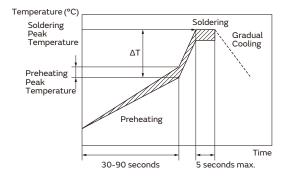
	Pb-Sn Solder	Lead Free Solder
Preheating Peak Temperature	90 to 110°C	100 to 120°C 140 to 160°C ( <b>NFM</b> )
Soldering Peak Temperature	240 to 250°C	250 to 260°C
Atmosphere	Air	Air or N2

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

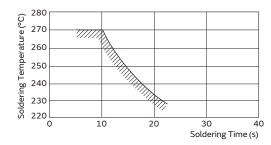
- 5. Optimum Solder Amount for Flow Soldering
  - 5-1. The top of the solder fillet should be lower than the thickness of the components. If the solder amount is excessive, the risk of cracking is higher during board bending or any other stressful condition.



## [Example of Temperature Conditions for Flow Soldering]



#### [Allowable Flow Soldering Temperature and Time]



In the case of repeated soldering, the accumulated soldering time must be within the range shown above.

Continued on the following page. 7

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#### 4-3. Correction of Soldered Portion

When sudden heat is applied to the capacitor, distortion caused by the large temperature difference occurs internally, and can be the cause of cracks. Capacitors also tend to be affected by mechanical and thermal stress depending on the board preheating temperature or the soldering fillet shape, and can be the cause of cracks. Please refer to "1. PCB Design" or "3. Optimum solder amount" for the solder amount and the fillet shapes.

- 1. Correction with a Soldering Iron
  - 1-1. In order to reduce damage to the capacitor, be sure to preheat the capacitor and the mounting board. Preheat to the temperature range shown in Table 3. A hot plate, hot air type preheater, etc. can be used for preheating.

- 1-2. After soldering, do not allow the component/PCB to cool down rapidly.
- 1-3. Perform the corrections with a soldering iron as quickly as possible. If the soldering iron is applied too long, there is a possibility of causing solder leaching on the terminal electrodes, which will cause deterioration of the adhesive strength and other problems.

Table 3

Series	Chip Dimension Code (L/W)	Temperature of Soldering Iron Tip	Preheating Temperature	Temperature Differential (ΔT)	Atmosphere
GRT/GCM/GC3/GCD/GCE/GCJ	03/15/18/21/31	350°C max.	150°C min.	ΔΤ≦190°C	Air
GRT/GCM/GCJ	32/43/55	280°C max.	150°C min.	ΔΤ≦130°C	Air
NFM	21/31	350°C max.	150°C min.	ΔΤ≦190°C	Air

<sup>\*</sup>Applicable for both Pb-Sn and Lead Free Solder.

Pb-Sn Solder: Sn-37Pb

Lead Free Solder: Sn-3.0Ag-0.5Cu

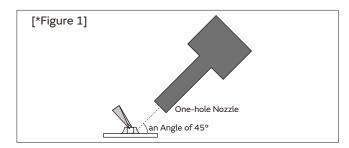
#### 2. Correction with Spot Heater

Compared to local heating with a soldering iron, hot air heating by a spot heater heats the overall component and board, therefore, it tends to lessen the thermal shock. In the case of a high density mounted board, a spot heater can also prevent concerns of the soldering iron making direct contact with the component.

- 2-1. If the distance from the hot air outlet of the spot heater to the component is too close, cracks may occur due to thermal shock. To prevent this problem, follow the conditions shown in Table 4.
- 2-2. In order to create an appropriate solder fillet shape, it is recommended that hot air be applied at the angle shown in Figure 1.

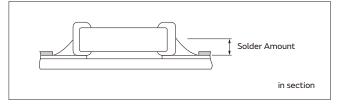
Table 4

Distance	5mm or more		
Hot Air Application Angle	45° *Figure 1		
Hot Air Temperature Nozzle Outlet	400°C max.		
A It At Time	Less than 10 seconds (1206 (3216M) size or smaller)		
Application Time	Less than 30 seconds (1210 (3225M) size or larger)		



- 3. Optimum solder amount when re-working with a soldering iron
  - 3-1. If the solder amount is excessive, the risk of cracking is higher during board bending or any other stressful condition.

Too little solder amount results in a lack of adhesive strength on the outer electrode termination, which may result in chips breaking loose from the PCB. Please confirm that solder has been applied smoothly is and rising to the end surface of the chip.



<sup>\*</sup>Please manage  $\Delta T$  in the temperature of soldering iron and the preheating temperature.

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- 3-2. 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.
- 3-3. Solder wire with Ø0.5mm or smaller is required for soldering.

#### <Applicable to KCM/KC3/KCA Series>

4. For the shape of the soldering iron tip, refer to the figure on the right.

Regarding the type of solder, use a wire diameter of ø0.5mm or less (rosin core wire solder).

4-1. How to Apply the Soldering Iron

Apply the tip of the soldering iron against the lower end of the metal terminal.

- 1) In order to prevent cracking caused by sudden heating of the ceramic device, do not touch the ceramic base directly.
- 2) In order to prevent deviations and dislocating of the chip, do not touch the junction of the chip and the metal terminal, and the metal portion on the outside directly.
- 4-2. Appropriate Amount of Solder

  The amount of solder for corrections by soldering iron, should be lower than the height of the lower side of the chip.

## 5. Washing

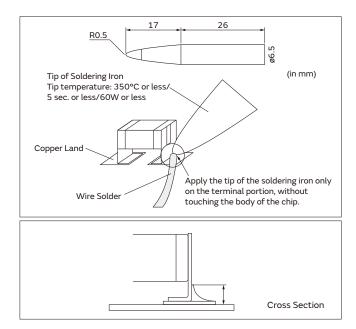
Excessive ultrasonic oscillation during cleaning can cause the PCBs to resonate, resulting in cracked chips or broken solder joints. Before starting your production process, test your cleaning equipment/process to insure it does not degrade the capacitors.

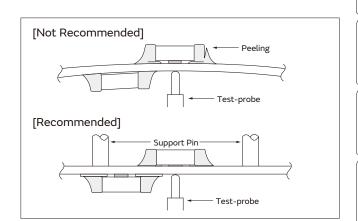
#### 6. Electrical Test on Printed Circuit Board

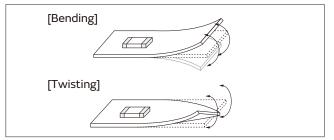
- Confirm position of the support pin or specific jig, when inspecting the electrical performance of a capacitor after mounting on the printed circuit board.
  - 1-1. Avoid bending the printed circuit board by the pressure of a test-probe, etc.
    The thrusting force of the test probe can flex the PCB, resulting in cracked chips or open solder joints. Provide support pins on the back side of the PCB to prevent warping or flexing. Install support pins as close to the test-probe as possible.
  - 1-2. Avoid vibration of the board by shock when a test-probe 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 causes bending or twisting the board.
  - 1-1. In cropping the board, the stress as shown at right may cause the capacitor to crack. Avoid this type of stress to a capacitor.







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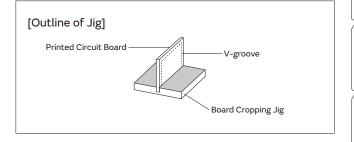
- 2. Check the cropping method for the printed circuit board in advance.
  - 2-1. Printed circuit board cropping shall be carried out by using a jig or an apparatus (Disc separator, router type separator, etc.) to prevent the mechanical stress that can occur to the board.

Daniel Sanavation Mathed	Hand Separation	(1) Board Sanavation lin	Board Separat	tion Apparatus
Board Separation Method	Nipper Separation	(1) Board Separation Jig	(2) Disc Separator	(3) Router Type Separator
Level of stress on board	High	Medium	Medium	Low
Recommended	×	∆*	∆*	0
			· Board handling	
	Hand and nipper	· Board handling	· Layout of slits	
Notes	separation apply a high level of stress.	· Board bending direction	· Design of V groove	Board handling
	Use another method.	· Layout of capacitors	· Arrangement of blades	
			· Controlling blade life	

①Note • Please read rating and ①CAUTION (for storage, operating, rating, soldering, mounting and handling) in this catalog to prevent smoking and/or burning, etc.
• This catalog has only typical specifications. Therefore, please approve our product specifications or transact the approval sheet for product specifications before ordering.

#### (1) Example of a suitable jig

[In the case of Single-side Mounting]
An outline of the board separation jig is shown as follows. Recommended example: Stress on the component mounting position can be minimized by holding the portion close to the jig, and bend in the direction towards the side where the capacitors are mounted. Not recommended example: The risk of cracks occurring in the capacitors increases due to large stress being applied to the component mounting position, if the portion away from the jig is held and bent in the direction opposite the side where the capacitors are mounted.



#### Hand Separation



[In the case of Double-sided Mounting]
Since components are mounted on both sides of the board, the risk of cracks occurring can not be avoided with the above method.

Therefore, implement the following measures to prevent stress from being applied to the components.

#### (Measures)

- (1) Consider introducing a router type separator. If it is difficult to introduce a router type separator, implement the following measures. (Refer to item 1. Mounting Position)
- (2) Mount the components parallel to the board separation surface.
- (3) When mounting components near the board separation point, add slits in the separation position near the component.
- (4) Keep the mounting position of the components away from the board separation point.

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<sup>\*</sup> When a board separation jig or disc separator is used, if the following precautions are not observed, a large board deflection stress will occur and the capacitors may crack. Use router type separator if at all possible.

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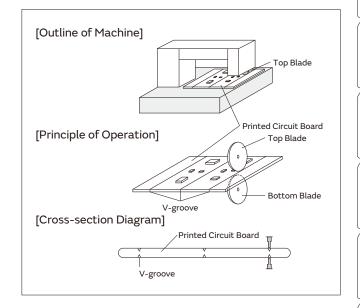
(2) Example of a Disc Separator

An outline of a disc separator is shown as follows. As shown in the Principle of Operation, the top blade and bottom blade are aligned with the V-grooves on the printed circuit board to separate the board.

In the following case, board deflection stress will be applied and cause cracks in the capacitors.

- (1) When the adjustment of the top and bottom blades are misaligned, such as deviating in the top-bottom, left-right or front-rear directions
- (2) The angle of the V groove is too low, depth of the V groove is too shallow, or the V groove is misaligned top-bottom

IF V groove is too deep, it is possible to brake when you handle and carry it. Carefully design depth of the V groove with consideration about strength of material of the printed circuit board.



Disc Separator

Recommended	Not Recommended				
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		

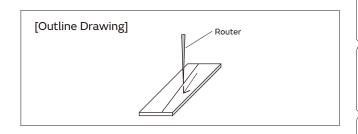
V-groove Design

Example of Recommended	Not Recommended					
V-groove Design	Left-right Misalignment	Low-Angle	Depth too Shallow	Depth too Deep		

(3) Example of Router Type Separator

The router type separator performs cutting by a router rotating at a high speed. Since the board does not bend in the cutting process, stress on the board can be suppressed during board separation.

When attaching or removing boards to/from the router type separator, carefully handle the boards to prevent bending.



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#### 8. Assembly

#### 1. Handling

If a board mounted with capacitors is held with one hand, the board may bend. Firmly hold the edges of the board with both hands when handling.

If a board mounted with capacitors is dropped, cracks may occur in the capacitors.

Do not use dropped boards, as there is a possibility that the quality of the capacitors may be impaired.

#### 2. Attachment of Other Components

#### 2-1. Mounting of Other Components

Pay attention to the following items, when mounting other components on the back side of the board after capacitors have been mounted on the opposite side. When the bottom dead point of the suction nozzle is set too low, board deflection stress may be applied to the capacitors on the back side (bottom side), and cracks may occur in the capacitors.

- $\cdot$  After the board is straightened, set the bottom dead point of the nozzle on the upper surface of the board.
- · Periodically check and adjust the bottom dead point.
- 2-2. Inserting Components with Leads into Boards When inserting components (transformers, IC, etc.) into boards, bending the board may cause cracks in the capacitors or cracks in the solder.

Pay attention to the following.

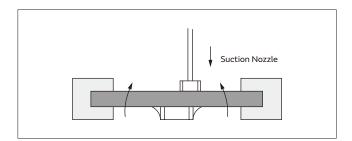
- $\cdot$  Increase the size of the holes to insert the leads, to reduce the stress on the board during insertion.
- $\cdot$  Fix the board with support pins or a dedicated jig before insertion.
- · Support below the board so that the board does not bend. When using support pins on the board, periodically confirm that there is no difference in the height of each support pin.
- 2-3. Attaching/Removing Sockets and/or Connectors Insertion and removal of sockets and connectors, etc., might cause the board to bend. Please insure that the board does not warp during insertion and removal of sockets and connectors, etc., or the bending may damage mounted components on the board.

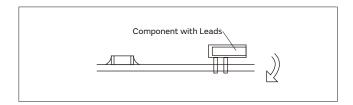
## 2-4. Tightening Screws

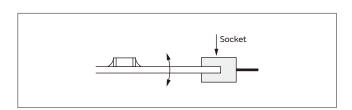
The board may be bent, when tightening screws, etc. during the attachment of the board to a shield or chassis.

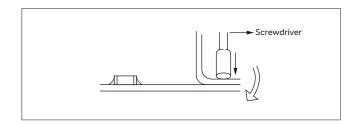
Pay attention to the following items before performing the work.

- · Plan the work to prevent the board from bending.
- · Use a torque screwdriver, to prevent over-tightening of the screws.
- · The board may bend after mounting by reflow soldering, etc. Please note, as stress may be applied to the chips by forcibly flattening the board when tightening the screws.









## $\mathop{igarphite}$ Caution

Continued from the preceding page.

#### <Applicable to GCG Series>

#### 9. Selection of Conductive Adhesive, Mounting Process, and Bonding Strength

The acquired bonding strength may change greatly depending on the conductive adhesive to be used. Be sure to confirm if the desired performance can be acquired in the assumed mounting process with the conductive adhesive to be used.

#### 10. Moisture Proof Process

In order to prevent the occurrence of migration, perform a moisture proof process, such as applying a resin coating or enclosing with a dry inert gas.

#### 11. Application

This product is limited to conductive glue mounting. When performing solder mounting, contact Murata in advance.

#### Other

#### 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. Other

- 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
  - (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 of, they must be burned or buried by an industrial waste vendor with the appropriate licenses.

#### 2-3. Circuit Design

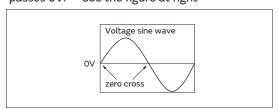
(1) Addition of Fail Safe Function Capacitors that are cracked by dropping or bending of the board may cause deterioration of the insulation resistance, and result in a short.

- If the circuit being used may cause an electrical shock, smoke or fire when a capacitor is shorted, be sure to install fail-safe functions, such as a fuse, to prevent secondary accidents.
- (2) Capacitors used to prevent electromagnetic interference in the primary AC side circuit, or as a connection/insulation, must be a safety standard certified product, or satisfy the contents stipulated in the Electrical Appliance and Material Safety Law. Install a fuse for each line in case of a short.
- (3) The GC3, GCD, GCE, GCG, GCJ, GCM, KC3, KCM, and NFM series are not safety standard certified products.
- 2-4. Test Condition for AC Withstanding Voltage
  - (1) Test Equipment
    - Test equipment for AC withstanding voltage should be made with equipment capable of creating a wave similar to a 50/60Hz sine wave.
  - (2) Voltage Applied Method

The capacitor's lead or terminal 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 capacitor's lead or terminals should be taken off the output of the withstanding voltage test equipment. If the test voltage applied directly to the capacitor without raising it from near zero, surge voltage may occur and cause a defect.

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



Continued on the following page. 7

Continued from the preceding page.

#### 2-5. Remarks

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

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 not exceed the maximum operating temperature including self-heating.

#### 2. Atmosphere Surroundings (gaseous and liquid)

- 1. Restriction on the operating environment of capacitors.
  - 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

1. 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.

#### Soldering and Mounting

#### 1. PCB Design

- 1. Notice for Pattern Forms
  - 1-1. Unlike leaded components, chip components are susceptible to flexing stresses since they are mounted directly on the substrate.
    - They are also more sensitive to mechanical and thermal stresses than leaded components. Excess solder fillet height can multiply these stresses and cause chip cracking. When designing substrates, take land patterns and dimensions into consideration to eliminate the possibility of excess solder fillet height.
  - 1-2. There is a possibility of chip cracking caused by PCB expansion/contraction with heat, because stress on a chip is different depending on PCB material and structure. When the thermal expansion coefficient greatly differs between the board used for mounting and the chip, it will cause cracking of the chip due to the thermal expansion and contraction. When capacitors are mounted on a fluorine resin printed circuit board or on a single-layered glass epoxy board, it may also cause cracking of the chip for the same reason.
- 1-3. If you are replacing by smaller capacitors, you should not only consider the Land size change but also consider changing the Wiring Width, Wiring direction, and copper foil thickness because the risk of chip cracking is increased with just a Land size change.

#### <Applicable to NFM Series>

- 1-4. Because noise is suppressed by shunting unwanted high-frequency components to the ground, when designing a land for the NFM series, design the ground pattern to be as large as possible in order to better bring out this characteristic.
  - As shown in the figure below, noise countermeasures can be made more effective by using a via to connect the ground pattern on the chip mounting surface to a larger ground pattern on the inner layer.

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#### Pattern Forms

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

#### 2. Land Dimensions

2-1. Please refer to the land dimensions in table 1 for flow soldering, table 2 for reflow soldering. Please confirm the suitable land dimension by evaluating of the actual SET / PCB.

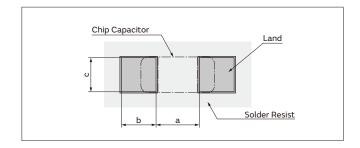


Table 1 Flow Soldering Method

Series	Chip Dimension Code (L/W)	Chip (L×W)	a	b	С
GRT/GCM/GC3/GCD/GCJ	18	1.6×0.8	0.6 to 1.0	0.8 to 0.9	0.6 to 0.8
(Rated Voltage: above	21	2.0×1.25	1.0 to 1.2	0.9 to 1.0	0.8 to 1.1
250VDC (for <b>GCJ</b> alone))	31	3.2×1.6	2.2 to 2.6	1.0 to 1.1	1.0 to 1.4

Flow soldering can only be used for products with a chip size from 1.6  $\!\times\! 0.8 mm$  to 3.2  $\!\times\! 1.6 mm$ .

(in mm)

Table 2 Reflow Soldering Method

Series	Chip Dimension Code (L/W)	Chip (L×W)	a	b	с
	03	0.6×0.3	0.2 to 0.3	0.2 to 0.35	0.2 to 0.4
	45	1.0×0.5 (within ±0.10)	0.3 to 0.5	0.35 to 0.45	0.4 to 0.6
	15	1.0×0.5 (±0.15/±0.20)	0.4 to 0.6	0.4 to 0.5	0.5 to 0.7
	10	1.6×0.8 (within ±0.10)	0.6 to 0.8	0.6 to 0.7	0.6 to 0.8
	18	1.6×0.8 (±0.15/±0.20)	0.7 to 0.9	0.7 to 0.8	0.8 to 1.0
	21	2.0×1.25 (within ±0.10)	1.2	0.6	1.25
GRT/GCM/GC3/ GCD/GCE/GCJ		2.0×1.25 (±0.15)	1.2	0.6 to 0.8	1.2 to 1.4
acb/act/acs		2.0×1.25 (±0.20)	1.0 to 1.4	0.6 to 0.8	1.2 to 1.4
	31	3.2×1.6 (within ±0.20)	1.8 to 2.0	0.9 to 1.2	1.5 to 1.7
		3.2×1.6 (±0.30)	1.9 to 2.1	1.0 to 1.3	1.7 to 1.9
	32	3.2×2.5	2.0 to 2.4	1.0 to 1.2	1.8 to 2.3
	43	4.5×3.2	3.0 to 3.5	1.2 to 1.4	2.3 to 3.0
	55	5.7×5.0	4.0 to 4.6	1.4 to 1.6	3.5 to 4.8

(in mm)

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#### <Applicable to Part Number KCM/KC3/KCA>

Series	Chip Dimension Code (L/W)	Body Size (L×W)	a	b	С
KCM/KC3 (Except 5C)	55	6.1×5.3	2.6 to 3.2	2.4 to 2.7	5.5 to 5.6
KCM (5C only)	55	6.1×5.1	3.2 to 4.0	2.0 to 2.4	5.5 to 5.7
KCA	55	6.1×5.1	3.2 to 4.0	2.0 to 2.4	5.5 to 5.7

(in mm)

#### <Applicable to beyond Rated Voltage of 200VDC>

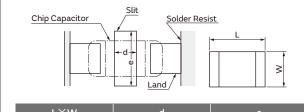
#### 2-2. Dimensions of Slit (Example)

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 Table.



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

(in mm)

#### <Applicable to NFM Series>

Land Pattern Land Pattern Solder Resist (in mm) + Solder Resist Series **Land Dimensions**  Reflow Soldering NFM18HC NFM21HC Small diameter thru hole ø0.2-ø0.3 Small diameter thru hole ø0.4 NFM21HC 1.4 Chip mounting side Chip mounting side Reflow Soldering Flow Soldering NFM31HK\*1 NFM31HK\*1 \*1 For large current \*1 For large current design, width of design, width of Small diameter thru hole ø0.4 Small diameter thru hole ø0.4 signal land pattern signal land pattern should be wider not should be wider not 10mm or 10mm or less than 1mm per less than 1mm per more more NFM31HK (in case of 1A (1mm/A). (in case of 1A (1mm/A). 10A) 10A) For example, For example,

in case of 10A, signal

land pattern width

should be 10mm or

(1mm/A\*10A=10mm)

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in case of 10A, signal

land pattern width

should be 10mm or

(1mm/A\*10A=10mm)

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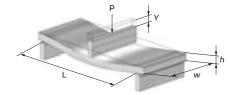
3. Board Design

When designing the board, keep in mind that the amount of strain which occurs will increase depending on the size and material of the board.

[Relationship with amount of strain to the board thickness, length, width, etc.]

$$\mathcal{E} = \frac{3PL}{2Ewh^2}$$
 Relationship between load and strain

- ε: Strain on center of board (μst)
- L: Distance between supporting points (mm)
- w: Board width (mm)
- h: Board thickness (mm)
- E: Elastic modulus of board (N/m²=Pa)
- Y: Deflection (mm)
- P: Load (N)



When the load is constant, the following relationship can be established.  $\label{eq:constant}$ 

- · As the distance between the supporting points (L) increases, the amount of strain also increases.
- →Reduce the distance between the supporting points.
- As the elastic modulus (E) decreases, the amount of strain increases.
   →Increase the elastic modulus.
- $\cdot$  As the board width (w) decreases, the amount of strain increases.
- →Increase the width of the board.
- · As the board thickness (h) decreases, the amount of strain increases. →Increase the thickness of the board.
- Since the board thickness is squared, the effect on the amount of strain becomes even greater.

#### 2. Item to be confirmed for Flow soldering

If you want to temporarily attach the capacitor to the board using an adhesive agent before soldering the capacitor, first be sure that the conditions are appropriate for affixing the capacitor. If the dimensions of the land, the type of adhesive, the amount of coating, the contact surface area, the curing temperature, or other conditions are inappropriate, the characteristics of the capacitor may deteriorate.

- 1. Selection of Adhesive
  - 1-1. Depending on the type of adhesive, there may be a decrease in insulation resistance. In addition, there is a chance that the capacitor might crack from contractile stress due to the difference in the contraction rate of the capacitor and the adhesive.
  - 1-2. If there is not enough adhesive, the contact surface area is too small, or the curing temperature or curing time are inadequate, the adhesive strength will be insufficient and the capacitor may loosen or become disconnected during transportation or soldering. If there is too much adhesive, for example if it overflows onto the land, the result could be soldering defects, loss of electrical connection, insufficient curing, or slippage after the capacitor is mounted.

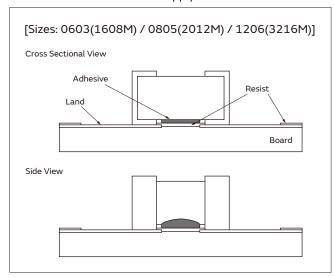
Furthermore, if the curing temperature is too high or the curing time is too long, not only will the adhesive

strength be reduced, but solderability may also suffer due to the effects of oxidation on the terminations (outer electrodes) of the capacitor and the land surface on the board.

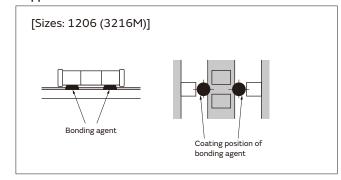
- Selection of Adhesive
   Epoxy resins are a typical class of adhesive.
   To select the proper adhesive, consider the following points.
  - There must be enough adhesive strength to prevent the component from loosening or slipping during the mounting process.
  - 2) The adhesive strength must not decrease when exposed to moisture during soldering.
  - The adhesive must have good coatability and shape retention properties.
  - 4) The adhesive must have a long pot life.
  - 5) The curing time must be short.
  - 6) The adhesive must not be corrosive to the exterior of the capacitor or the board.
  - 7) The adhesive must have good insulation properties.
  - 8) The adhesive must not emit toxic gases or otherwise be harmful to health.
  - 9) The adhesive must be free of halogenated compounds.

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(2) Use the following illustration as a guide to the amount of adhesive to apply.

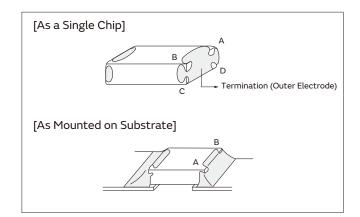


#### <Applicable to NFM Series>



#### 2. Flux

- 2-1. 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 solderring.)
- 2-2. Flux containing too high a percentage of halide may cause corrosion of the terminations unless there is sufficient cleaning. Use flux with a halide content of 0.1% max.
- 2-3. Strong acidic flux can corrode the capacitor and degrade its performance.
  - Please check the quality of capacitor after mounting.
- 3. Leaching of the terminations
- Set temperature and time to ensure that leaching of the termination 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.



#### 3. Reflow Soldering

The flux in the solder paste contains halogen-based substances and organic acids as activators.

Strong acidic flux can corrode the capacitor and degrade its performance.

Please check the quality of capacitor after mounting.

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#### 4. Washing

- Please evaluate the capacitor using actual cleaning equipment and conditions to confirm the quality, and select the solvent for cleaning.
- Unsuitable cleaning may leave residual flux or other foreign substances, causing deterioration of electrical characteristics and the reliability of the capacitors.

#### 5. Coating

- A crack may be caused in the capacitor due to the stress of the thermal contraction of the resin during curing process.
  - 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.
- 3. The halogen system substance and organic acid are included in coating material, and a chip corrodes by the kind of Coating material.
  Do not use strong acid type.

#### Other

#### 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.
    - 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, or 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.

#### 2. Characteristics Evaluation in the Actual System

- 1. Evaluate the capacitor in the actual system, to confirm that there is no problem with the performance and specification values in a finished product before using.
- 2. Since a voltage dependency and temperature dependency exists in the capacitance of high dielectric type ceramic capacitors, the capacitance may change depending on the operating conditions in the actual system. Therefore, be sure to evaluate the various characteristics, such as the leakage current and noise absorptivity, which will affect the capacitance value of the capacitor.
- 3. In addition, voltages exceeding the predetermined surge may be applied to the capacitor by the inductance in the actual system. Evaluate the surge resistance in the actual system as required.

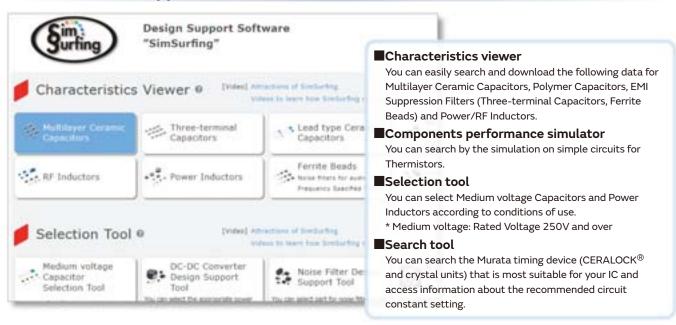
#### <Applicable to NFM Series>

4. The effects of noise suppression can vary depending on the usage conditions, including differences in the circuit or IC to be used, the type of noise, the shape of the pattern to be mounted, and the mounting location. Be sure to verify the effect on the actual device in advance.

# Design Support Tool "SimSurfing"

https://ds.murata.co.jp/simsurfing/index.html

This is the latest tool to get the electrical characteristics for Capacitors, Inductors, and EMI Suppression Filters, and to simulate Thermistors' behavior!



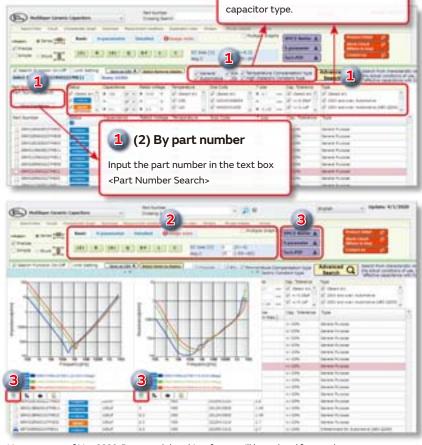
# ■ Usage example of "Multilayer Ceramic Capacitors" 1 Select the products (1) By performance/type

2 Show graph

(2) By part number

Click each button on each tab of [Basic], [S-parameter] and [Detailed].

- 3 Data download
- Click each purple button in this area.
- Click "CSV output" button.



1 (1) By performance/type

Select characteristics parameter or

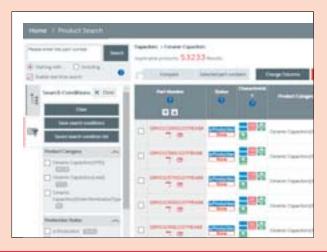
https://ds.murata.co.jp/simsurfing/index.html

<sup>\*</sup> Images are as of May 2020. Be assured that this software will be updated frequently.

# 

## Search by Part Number

https://www.murata.com/search/productsearch?cate=cgsubCeramicCapacitors



You can search for capacitors by specifying the alphanumeric characters in the part number. The packing codes shown contain the substitute character "#". If you enter the official packing code, part numbers that contain that packing code will be matched.

## Search by **Specifications**

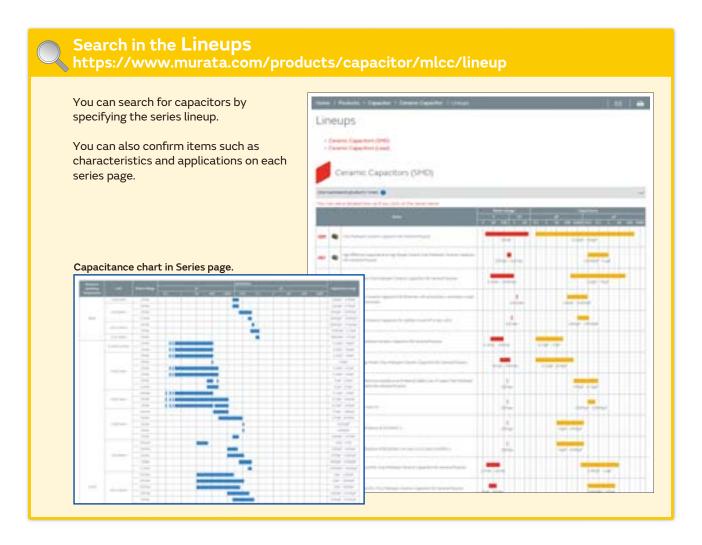
https://www.murata.com/search/productsearch?cate=luCeramicCapacitorsSMD#spec



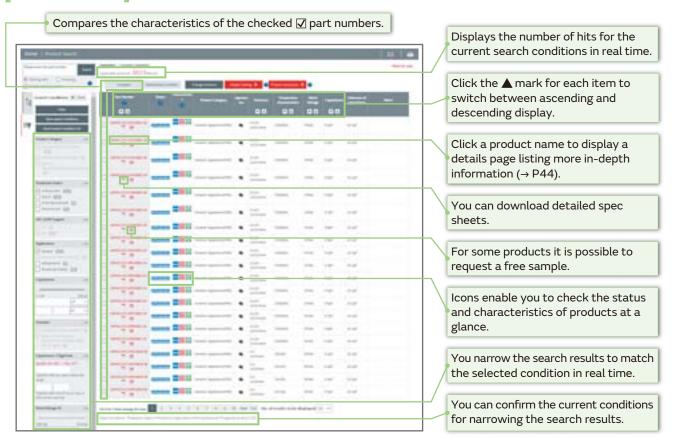
You can search for SMD, lead type, or screw termination type capacitors by indicating specifications such as application, capacitance, rated voltage, or temperature characteristics.

You can narrow your search by entering values of ranges, and by specifying product characteristics.

The items for narrowing searches are linked, so specifying one condition causes selectable options for the other items to allow input only of conditions that match the relevant part numbers.



## [Search result]



## Global Locations

For details please visit www.murata.com



#### **Note**

## 1 Export Control

#### For customers outside Japan:

No Murata products should be used or sold, through any channels, for use in the design, development, production, utilization, maintenance or operation of, or otherwise contribution to (1) any weapons (Weapons of Mass Destruction [nuclear, chemical or biological weapons or missiles] or conventional weapons) or (2) goods or systems specially designed or intended for military end-use or utilization by military end-users.

#### For customers in Japan:

For products which are controlled items subject to the "Foreign Exchange and Foreign Trade Law" of Japan, the export license specified by the law is required for export.

- 2 Please contact our sales representatives or product engineers before using the products in this catalog for the applications listed below, which require especially high reliability for the prevention of defects which might directly damage a third party's life, body or property, or when one of our products is intended for use in applications other than those specified in this catalog.
  - Aircraft equipment
  - Aerospace equipment
  - 3 Undersea equipment
  - Power plant equipment
  - Medical equipment
  - Transportation equipment (vehicles, trains, ships, etc.)
  - 7 Traffic signal equipment
  - 8 Disaster prevention / crime prevention equipment
  - Data-processing equipment
  - Application of similar complexity and/or reliability requirements to the applications listed above

- Product specifications in this catalog are as of May 2020. They are subject to change or our products in it may be discontinued without advance notice. Please check with our sales representatives or product engineers before ordering. If there are any questions, please contact our sales representatives or product engineers.
- 4 Please read rating and \(\Delta\)CAUTION (for storage, operating, rating, soldering, mounting and handling) in this catalog to prevent smoking and/or burning, etc.
- 5 This catalog has only typical specifications.
  Therefore, please approve our product
  specifications or transact the approval sheet
  for product specifications before ordering.
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- 7 No ozone depleting substances (ODS) under the Montreal Protocol are used in our manufacturing process.

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NMC0402NPO220J50TRPF NMC0402X5R105K6.3TRPF NMC0402X5R224K6.3TRPF NMC0402X7R103J25TRPF

NMC0402X7R153K16TRPF NMC0603NPO101F50TRPF NMC0603NPO1R8C50TRPF NMC0603NPO201J50TRPF

NMC0603X5R475M6.3TRPF NMC0805NPO270J50TRPF NMC0805NPO681F50TRPF NMC0805NPO820J50TRPF

NMC0805X7R224K16TRPLPF NMC0805X7R224K25TRPF NMC1206X7R102K50TRPF NMC1206X7R475K10TRPLPF NMC-Q0402NPO8R2D200TRPF C1206C101J1GAC C1608C0G2A221J C1608X7R1E334K C2012C0G2A472J 2220J2K00562KXT

1812J2K00332KXT CDR04BX104AKSR CDR31BX103AKWR CDR33BX104AKUR CDR33BX683AKUS CGA2B2C0G1H010C CGA2B2C0G1H040C CGA2B2C0G1H050C CGA2B2C0G1H060D CGA2B2C0G1H070D CGA2B2C0G1H120J CGA2B2C0G1H151J CGA2B2C0G1H1R5C CGA2B2C0G1H2R2C CGA2B2C0G1H390J CGA2B2C0G1H391J CGA2B2C0G1H3R3C CGA2B2C0G1H680J CGA2B2C0G1H6R8D CGA2B2C0G1H820J CGA2B2X8R1H152K CGA2B2X8R1H221K