



MLCC with dipped radial lead

(Halogen-free, commercial grade)

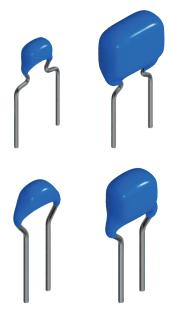
FG series

Type: Lead pitch 5.0 mm

FG28 [4.0x5.5mm] FG24 [4.5x5.5mm] FG26 [5.5x6.0mm] FG20 [5.5x7.0mm] FG22 [7.5x8.5mm] FG23 [8.5x11.0mm]

Lead pitch 2.5 mm

FG18 [4.0x5.5mm] FG14 [4.5x5.5mm] FG16 [5.5x6.0mm] FG11 [5.5x7.0mm]





REMINDERS FOR USING THESE PRODUCTS

Before using these products, be sure to request the delivery specifications.

SAFETY REMINDERS

Please pay sufficient attention to the warnings for safe designing when using this products.



REMINDERS

1. The products listed on this catalog are intended for use in general electronic equipment (AV equipment, telecommunications equipment, home appliances, amusement equipment, computer equipment, personal equipment, office equipment, measurement equipment, industrial robots) under a normal operation and use condition.

The products are not designed or warranted to meet the requirements of the applications listed below, whose performance and/or quality require a more stringent level of safety or reliability, or whose failure, malfunction or trouble could cause serious damage to society, person or property.

If you intend to use the products in the applications listed below or if you have special requirements exceeding the range or conditions set forth in the each catalog, please contact us.

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- (2) Transportation equipment (cars, electric trains, ships, etc.)
- (3) Medical equipment
- (4) Power-generation control equipment
- (5) Atomic energy-related equipment
- (6) Seabed equipment
- (7) Transportation control equipment

- (8) Public information-processing equipment
- (9) Military equipment
- (10) Electric heating apparatus, burning equipment
- (11) Disaster prevention/crime prevention equipment
- (12) Safety equipment
- (13) Other applications that are not considered general-purpose applications

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MLCC with dipped radial lead Halogen-free, commercial grade

Product compatible with RoHS directive Halogen-free

Overview of the FG series

FEATURES

- A complete lineup with a rated voltage of 6.3V to 630V.
- \bigcirc Compatible with a wide capacitance range of 1pF to 100 μ F.

APPLICATION

- O Noise reduction measures for various motors
- O Bypass capacitors such as for switching power sources, smoothing capacitors, etc.
- O Snubber circuits
- OPFC input filters

PART NUMBER CONSTRUCTION

FG		2		8	(C0G	1	Н	0	10		С			
					•										
Series name	ı	_ead pitch (mm)		LxWxT dimensions (mm)	Capacitance temperature characteristics		vo	ated Itage (V)	Nominal capacitance (pF)			pacitance lerance*	Internal code		ckaging style**
	1	2.5	8	4.0x5.5x2.5	C0G	0±30ppm/°C	0J	6.3	010	1	С	±0.25pF		0	Bulk
	2	5.0	4	4.5x5.5x3.0	X5R	±15%	1A	10	100	10	D	±0.5pF		6	Taping
		_	6	5.5x6.0x3.5	X7R	±15%	1C	16	101	100	٦	±5%			
			0	5.5x7.0x4.0	X7S	±22%	1E	25	102	1,000	K	±10%			
			1	5.5x7.0x4.0	X7T	+22, -33%	1H	50		<u> </u>	М	±20%			
			2	7.5x8.5x4.5			2A	100							
			3	8.5x11.0x5.5			2E	250							
							2W	450							
							2J	630							

 $^{^{\}ast}$ Applicable capacitance range: Max. 10 pF for C and D, over 10 pF for J, K, and M.

OPERATING TEMPERATURE RANGE

	Temperature range*			
Capacitance temperature characteristics	Operating temperature (°C)	Storage temperature** (°C)		
C0G, X7R, X7S, X7T	-55 to +125	-55 to +125		
X5R	-55 to +85	-55 to +85		

^{*}The maximum operating temperature includes capacitor self-generated heat of up to 20°C.

^{**} Applied to the TDK's standard specification products.

^{**} The storage temperature range is for after the circuit board is mounted.

RoHS Directive Compliant Product: See the following for more details.https://product.tdk.com/info/en/environment/rohs/index.html

O Halogen-free: Indicates that CI content is less than 900ppm, Br content is less than 900ppm, and that the total CI and Br content is less than 1500ppm.



Overview of the FG series

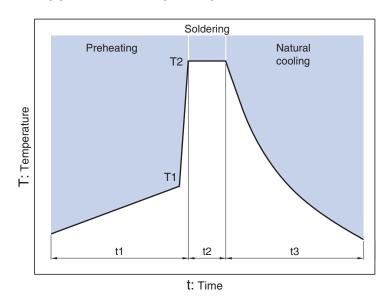
■PACKAGE QUANTITY

Tymo	Package quantity					
Туре	Taping (pieces / box)	Bulk (pieces / bag)				
FG28	2000	500				
FG24	2000	500				
FG26	2000	500				
FG20	1500	500				
FG22	1000	500				
FG23	1000	200				
FG18	2000	500				
FG14	2000	500				
FG16	2000	500				
FG11	1500	500				



Overview of the FG series

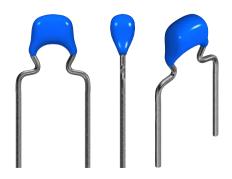
■ RECOMMENDED FLOW PROFILE



Preheating		Peak		Natural cooling
Temp.	Time	Temp.	Time	Time
T1	t1	T2	t2	t3
110°C min.	Over 60s.	260°C	Within 5s.	Over 60s.









■ ELECTRICAL CHARACTERISTICS

CHARACTERISTICS SPECIFICATION TABLE

Code	Temperature	Capacitance	Tolerance	Rated voltage	Part No.*
COG 1.5pF ±0.25pF 50 FG28COG1HR3CXTTO□ COG 2.0pF ±0.25pF 50 FG28COG1H02CXTTO□ COG 3.0pF ±0.25pF 50 FG28COG1H02CXTTO□ COG 3.0pF ±0.25pF 50 FG28COG1H83CXTTO□ COG 4.0pF ±0.25pF 50 FG28COG1H87CXTTO□ COG 4.0pF ±0.25pF 50 FG28COG1H87CXTTO□ COG 4.0pF ±0.25pF 50 FG28COG1H87CXTTO□ COG 5.0pF ±0.25pF 50 FG28COG1H87CXTTO□ COG 6.0pF ±0.5pF 50 FG28COG1H87CXTTO□ COG 6.0pF ±0.5pF 50 FG28COG1H87CXTTO□ COG 7.0pF ±0.5pF 50 FG28COG1H80DXTO□ COG 7.0pF ±0.5pF 50 FG28COG1H80DXTO□ COG 9.0pF ±0.5pF 50 FG28COG1H00DXTO□ COG 10pF ±5.9pF 50 FG28COG1H10DXTTO□ COG 10pF	characteristics	Сараспапсе	Tolerance	Edc (V)	Part No.
COG 2.0PF ±0.25pF 50 FG28C0G11402CNTO□ COG 2.2pF ±0.25pF 50 FG28C0G1142R2CNTO□ COG 3.3pF ±0.25pF 50 FG28C0G11430SCNTO□ COG 4.0pF ±0.25pF 50 FG28C0G11430SCNTO□ COG 4.7pF ±0.25pF 50 FG28C0G11440CNTO□ COG 5.0pF ±0.25pF 50 FG28C0G11490CNTO□ COG 5.0pF ±0.5pF 50 FG28C0G11490CNTO□ COG 6.0pF ±0.5pF 50 FG28C0G11490CNTO□ COG 6.8pF ±0.5pF 50 FG28C0G11490CNTO□ COG 6.8pF ±0.5pF 50 FG28C0G11490CNTO□ COG 7.0pF ±0.5pF 50 FG28C0G11490CNTO□ COG 9.0pF ±0.5pF 50 FG28C0G11490CNTO□ COG 10pF ±0.5pF 50 FG28C0G11420CNTO□ COG 12pF ±5% 50 FG28C0G11420CNTO□ COG 12pF	COG	1.0pF	±0.25pF	50	FG28C0G1H010CNT0□**
COG 2.2pF ±0.25pF 50 FG28COG1H292CNTO□ COG 3.0pF ±0.25pF 50 FG28COG1H39CNTO□ COG 3.3pF ±0.25pF 50 FG28COG1H39R3CNTO□ COG 4.0pF ±0.25pF 50 FG28COG1H49RCNTO□ COG 4.0pF ±0.25pF 50 FG28COG1H49CONTO□ COG 5.0pF ±0.25pF 50 FG28COG1H49CONTO□ COG 6.0pF ±0.5pF 50 FG28COG1H49CONTO□ COG 6.8pF ±0.5pF 50 FG28COG1H69CONTO□ COG 6.8pF ±0.5pF 50 FG28COG1H9CONTO□ COG 6.8pF ±0.5pF 50 FG28COG1H9CONTO□ COG 10pF ±0.5pF 50 FG28COG1H9CONTO□ COG 10pF ±0.5pF 50 FG28COG1H9CONTO□ COG 10pF ±5% 50 FG28COG1H9CONTO□ COG 12pF ±5% 50 FG28COG1H2CUNTO□ COG 15pF ±	C0G	1.5pF	±0.25pF	50	FG28C0G1H1R5CNT0□
COG	C0G	2.0pF	±0.25pF	50	FG28C0G1H020CNT0□
COG 3.9pF ±0.2spF 50 FG28COG1H9R3CNTO□ COG 4.0pF ±0.2spF 50 FG28COG1H4B7CNTO□ COG 4.7pF ±0.2spF 50 FG28COG1H4B7CNTO□ COG 6.0pF ±0.5pF 50 FG28COG1H6B0DNTO□ COG 6.8pF ±0.5pF 50 FG28COG1H6B0DNTO□ COG 7.0pF ±0.5pF 50 FG28COG1H0B0DNTO□ COG 7.0pF ±0.5pF 50 FG28COG1H0B0DNTO□ COG 8.0pF ±0.5pF 50 FG28COG1H0B0DNTO□ COG 9.0pF ±0.5pF 50 FG28COG1H0B0DNTO□ COG 10pF ±0.5pF 50 FG28COG1H0B0DNTO□ COG 12pF ±5% 50 FG28COG1H1B0DNTO□ COG 18pF ±5% </td <td>C0G</td> <td>2.2pF</td> <td>±0.25pF</td> <td>50</td> <td>FG28C0G1H2R2CNT0□</td>	C0G	2.2pF	±0.25pF	50	FG28C0G1H2R2CNT0□
COG 4.0pF ±0.25pF 50 FG28COG1HAGCNTO□ COG 4.7pF ±0.25pF 50 FG28COG1HAGCNTTO□ COG 5.0pF ±0.5pF 50 FG28COG1HAGSOCNTO□ COG 6.8pF ±0.5pF 50 FG28COG1HAGSONTO□ COG 6.8pF ±0.5pF 50 FG28COG1HAGGONTO□ COG 7.0pF ±0.5pF 50 FG28COG1HOGDONTO□ COG 8.0pF ±0.5pF 50 FG28COG1HOGDONTO□ COG 9.0pF ±0.5pF 50 FG28COG1HOGDONTO□ COG 10pF ±0.5pF 50 FG28COG1HOGDONTO□ COG 10pF ±0.5pF 50 FG28COG1HBOONTO□ COG 10pF ±0.5pF 50 FG28COG1HBOONTO□ COG 12pF ±5% 50 FG28COG1HBOONTO□ COG 12pF ±5% 50 FG28COG1HBOONTO□ COG 22pF ±5% 50 FG28COG1HBOONTO□ COG 23pF ±5%	COG	3.0pF	±0.25pF	50	FG28C0G1H030CNT0□
COG 4.7pF ±0.25pF 50 FG28COG1H4R7CNTO□ COG 5.0pF ±0.25pF 50 FG28COG1H6RDNTO□ COG 6.0pF ±0.5pF 50 FG28COG1H6RBNTO□ COG 6.8pF ±0.5pF 50 FG28COG1H0RDNTO□ COG 7.0pF ±0.5pF 50 FG28COG1H0RDNTO□ COG 8.0pF ±0.5pF 50 FG28COG1H0RDNTO□ COG 10pF ±0.5pF 50 FG28COG1H10RDNTO□ COG 10pF ±0.5pF 50 FG28COG1H10RDNTO□ COG 10pF ±0.5pF 50 FG28COG1H10RDNTO□ COG 12pF ±5% 50 FG28COG1H12CNNTO□ COG 15pF ±5% 50 FG28COG1H18CNNTO□ COG 22pF ±5% 50 FG28COG1H3CNNTO□ COG 22pF ±5% 50 FG28COG1H3CNNTO□ COG 33pF ±5% 50 FG28COG1H3SQNNTO□ COG 35pF ±5% <t< td=""><td>C0G</td><td>3.3pF</td><td>±0.25pF</td><td>50</td><td>FG28C0G1H3R3CNT0□</td></t<>	C0G	3.3pF	±0.25pF	50	FG28C0G1H3R3CNT0□
COG 5.0pF ±0.5pF 50 FG28COG1H05DCNTO□ COG 6.0pF ±0.5pF 50 FG28COG1H08DDNTO□ COG 6.8pF ±0.5pF 50 FG28COG1H08DDNTO□ COG 7.0pF ±0.5pF 50 FG28COG1H09DDNTO□ COG 8.0pF ±0.5pF 50 FG28COG1H09DDNTO□ COG 9.0pF ±0.5pF 50 FG28COG1H09DDNTO□ COG 10pF ±0.5pF 50 FG28COG1H09DDNTO□ COG 12pF ±5% 50 FG28COG1H12DDNTO□ COG 15pF ±5% 50 FG28COG1H12DDNTO□ COG 15pF ±5% 50 FG28COG1H18DDNTO□ COG 13pF ±5% 50 FG28COG1H2QDNTO□ COG 22pF ±5% 50 FG28COG1H3DNTO□ COG 33pF ±5% 50 FG28COG1H3DNTO□ COG 33pF ±5% 50 FG28COG1H3DNTO□ COG 33pF ±5% 50 <td>C0G</td> <td>4.0pF</td> <td>±0.25pF</td> <td>50</td> <td>FG28C0G1H040CNT0□</td>	C0G	4.0pF	±0.25pF	50	FG28C0G1H040CNT0□
COG 6.0pF ±0.5pF 50 FG28COG1H060DNTO□ COG 6.8pF ±0.5pF 50 FG28COG1H970DNTO□ COG 7.0pF ±0.5pF 50 FG28COG1H080DNTO□ COG 8.0pF ±0.5pF 50 FG28COG1H080DNTO□ COG 9.0pF ±0.5pF 50 FG28COG1H080DNTO□ COG 10pF ±0.5pF 50 FG28COG1H100DNTO□ COG 12pF ±5% 50 FG28COG1H120JNTO□ COG 15pF ±5% 50 FG28COG1H120JNTO□ COG 18pF ±5% 50 FG28COG1H220JNTO□ COG 22pF ±5% 50 FG28COG1H220JNTO□ COG 33pF ±5% 50 FG28COG1H320JNTO□ COG 47pF ±5% 50<	C0G	4.7pF	±0.25pF	50	FG28C0G1H4R7CNT0□
COG 6.8pF ±0.5pF 50 FG28COG1H6RBDNTO□ COG 7.0pF ±0.5pF 50 FG28COG1H6RDDNTO□ COG 8.0pF ±0.5pF 50 FG28COG1H09DDNTO□ COG 9.0pF ±0.5pF 50 FG28COG1H19DDNTO□ COG 10pF ±0.5pF 50 FG28COG1H10DNTO□ COG 12pF ±5% 50 FG28COG1H15DNTO□ COG 15pF ±5% 50 FG28COG1H15DNTO□ COG 15pF ±5% 50 FG28COG1H15DNTO□ COG 15pF ±5% 50 FG28COG1H12DNTO□ COG 22pF ±5% 50 FG28COG1H2ZONTO□ COG 33pF ±5% 50 FG28COG1H2ZONTO□ COG 33pF ±5% 50 FG28COG1H3DNTO□ COG 33pF ±5% 50 FG28COG1H3DNTO□ COG 47pF ±5% 50 FG28COG1H3DNTO□ COG 58pF ±5% 50	C0G	5.0pF	±0.25pF	50	FG28C0G1H050CNT0
COG 6.8pF ±0.5pF 50 FG28COG1H6RBDNTO□ COG 7.0pF ±0.5pF 50 FG28COG1H6RBDNTO□ COG 8.0pF ±0.5pF 50 FG28COG1H090DNTO□ COG 9.0pF ±0.5pF 50 FG28COG1H190DNTO□ COG 10pF ±0.5pF 50 FG28COG1H190DNTO□ COG 12pF ±5% 50 FG28COG1H190NTO□ COG 15pF ±5% 50 FG28COG1H150NTO□ COG 15pF ±5% 50 FG28COG1H150NTO□ COG 15pF ±5% 50 FG28COG1H150NTO□ COG 22pF ±5% 50 FG28COG1H220NTO□ COG 23pF ±5% 50 FG28COG1H220NTO□ COG 33pF ±5% 50 FG28COG1H220NTO□ COG 33pF ±5% 50 FG28COG1H220NTO□ COG 33pF ±5% 50 FG28COG1H20NTO□ COG 58pF ±5% 50 <	C0G	6.0pF	±0.5pF	50	FG28C0G1H060DNT0
COG 7.0pF ±0.5pF 50 FG28COG1H070DNT0□ COG 8.0pF ±0.5pF 50 FG28COG1H080DNT0□ COG 9.0pF ±0.5pF 50 FG28COG1H090DNT0□ COG 10pF ±0.5pF 50 FG28COG1H100DNT0□ COG 12pF ±5% 50 FG28COG1H150NT0□ COG 15pF ±5% 50 FG28COG1H20NT0□ COG 18pF ±5% 50 FG28COG1H30NT0□ COG 22pF ±5% 50 FG28COG1H30NT0□ COG 32pF ±5% 50 FG28COG1H330NT0□ COG 39pF ±5% 50 FG28COG1H330NT0□ COG 39pF ±5% 50 FG28COG1H330NT0□ COG 47pF ±5% 50 FG28COG1H330NT0□ COG 45pF ±5% 50 FG28COG1H470NT0□ COG 45pF ±5% 50 FG28COG1H470NT0□ COG 45pF ±5% 50 FG28	COG	6.8pF	±0.5pF	50	
COG 9.0pF ±0.5pF 50 FG28COG1H100DNTO□ COG 10pF ±0.5pF 50 FG28COG1H100DNTO□ COG 12pF ±5% 50 FG28COG1H120JNTO□ COG 15pF ±5% 50 FG28COG1H120JNTO□ COG 18pF ±5% 50 FG28COG1H22JNTO□ COG 22pF ±5% 50 FG28COG1H22JNTO□ COG 33pF ±5% 50 FG28COG1H330JNTO□ COG 33pF ±5% 50 FG28COG1H330JNTO□ COG 33pF ±5% 50 FG28COG1H330JNTO□ COG 33pF ±5% 50 FG28COG1H30JNTO□ COG 47pF ±5% 50 FG28COG1H80JNTO□ COG 56pF ±5% 50 FG28COG1H80JNTO□ COG 68pF ±5% 50 FG28COG1H80JNTO□ COG 10pF ±5% 50 FG28COG1H80JNTO□ COG 12opF ±5% 50 FG28C	C0G	7.0pF	±0.5pF	50	FG28C0G1H070DNT0
COG 10pF ±0.5pF 50 FG28COG1H100DNTO□ COG 12pF ±5% 50 FG28COG1H120JNTO□ COG 15pF ±5% 50 FG28COG1H150JNTO□ COG 13pF ±5% 50 FG28COG1H2C0JNTO□ COG 22pF ±5% 50 FG28COG1H2C0JNTO□ COG 27pF ±5% 50 FG28COG1H30JNTO□ COG 33pF ±5% 50 FG28COG1H30JNTO□ COG 33pF ±5% 50 FG28COG1H30JNTO□ COG 47pF ±5% 50 FG28COG1H470JNTO□ COG 47pF ±5% 50 FG28COG1H560JNTO□ COG 56pF ±5% 50 FG28COG1H860JNTO□ COG 68pF ±5% 50 FG28COG1H860JNTO□ COG 68pF ±5% 50 FG28COG1H820JNTO□ COG 10pF ±5% 50 FG28COG1H820JNTO□ COG 12ppF ±5% 50 FG28C	COG	8.0pF	±0.5pF	50	FG28C0G1H080DNT0
COG 12pF ±5% 50 FG28C0G1H120JNT0□ COG 15pF ±5% 50 FG28C0G1H150JNT0□ COG 18pF ±5% 50 FG28C0G1H80JNT0□ COG 22pF ±5% 50 FG28C0G1H220JNT0□ COG 27pF ±5% 50 FG28C0G1H270JNT0□ COG 33pF ±5% 50 FG28C0G1H39JJNT0□ COG 33pF ±5% 50 FG28C0G1H39JJNT0□ COG 47pF ±5% 50 FG28C0G1H39JNT0□ COG 47pF ±5% 50 FG28C0G1H80JNT0□ COG 45pF ±5% 50 FG28C0G1H80JNT0□ COG 68pF ±5% 50 FG28C0G1H80JNT0□ COG 82pF ±5% 50 FG28C0G1H80JNT0□ COG 150pF ±5% 50 FG28C0G1H80JNT0□ COG 150pF ±5% 50 FG28C0G1H10JNT0□ COG 150pF ±5% 50 FG28C0G1H10	C0G	9.0pF	±0.5pF	50	FG28C0G1H090DNT0
COG 12pF ±5% 50 FG28COG1H120JNTO□ COG 15pF ±5% 50 FG28COG1H150JNTO□ COG 18pF ±5% 50 FG28COG1H180JNTO□ COG 22pF ±5% 50 FG28COG1H220JNTO□ COG 27pF ±5% 50 FG28COG1H320JNTO□ COG 33pF ±5% 50 FG28COG1H39JJNTO□ COG 33pF ±5% 50 FG28COG1H39JJNTO□ COG 47pF ±5% 50 FG28COG1H39JJNTO□ COG 45pF ±5% 50 FG28COG1H86JJNTO□ COG 56pF ±5% 50 FG28COG1H86JJNTO□ COG 68pF ±5% 50 FG28COG1H86JJNTO□ COG 82pF ±5% 50 FG28COG1H80JNTO□ COG 15opF ±5% 50 FG28COG1H10JNTO□ COG 15opF ±5% 50 FG28COG1H10JNTO□ COG 15opF ±5% 50 FG28CO	COG	10pF	±0.5pF	50	FG28C0G1H100DNT0
COG 15pF ±5% 50 FG28COG1H150JNTO□ COG 18pF ±5% 50 FG28COG1H180JNTO□ COG 22pF ±5% 50 FG28COG1H22DJNTO□ COG 27pF ±5% 50 FG28COG1H27DJNTO□ COG 33pF ±5% 50 FG28COG1H330JNTO□ COG 33pF ±5% 50 FG28COG1H47DJNTO□ COG 47pF ±5% 50 FG28COG1H830JNTO□ COG 56pF ±5% 50 FG28COG1H80JNTO□ COG 56pF ±5% 50 FG28COG1H80JNTO□ COG 68pF ±5% 50 FG28COG1H80JNTO□ COG 68pF ±5% 50 FG28COG1H80JNTO□ COG 10pF ±5% 50 FG28COG1H80JNTO□ COG 120pF ±5% 50 FG28COG1H181JNTO□ COG 120pF ±5% 50 FG28COG1H181JNTO□ COG 120pF ±5% 50 FG28COG1	C0G	12pF	±5%	50	
COG 18pF ±5% 50 FG28COG1H180JNTO□ COG 22pF ±5% 50 FG28COG1H220JNTO□ COG 27pF ±5% 50 FG28COG1H270JNTO□ COG 33pF ±5% 50 FG28COG1H330JNTO□ COG 39pF ±5% 50 FG28COG1H390JNTO□ COG 47pF ±5% 50 FG28COG1H480JNTO□ COG 56pF ±5% 50 FG28COG1H680JNTO□ COG 68pF ±5% 50 FG28COG1H80JNTO□ COG 68pF ±5% 50 FG28COG1H80JNTO□ COG 68pF ±5% 50 FG28COG1H80JNTO□ COG 10pF ±5% 50 FG28COG1H10JNTO□ COG 12pF ±5% 50 FG28COG1H12JNTO□ COG 12pF ±5% 50 FG28COG1H12JNTO□ COG 12opF ±5% 50 FG28COG1H2JNTO□ COG 22opF ±5% 50 FG28COG1H2JN	COG	15pF	±5%	50	
COG 22pF ±5% 50 FG28COG1H220JNT0□ COG 27pF ±5% 50 FG28COG1H270JNT0□ COG 33pF ±5% 50 FG28COG1H330JNT0□ COG 39pF ±5% 50 FG28COG1H390JNT0□ COG 47pF ±5% 50 FG28COG1H470JNT0□ COG 56pF ±5% 50 FG28COG1H560JNT0□ COG 68pF ±5% 50 FG28COG1H680JNT0□ COG 68pF ±5% 50 FG28COG1H680JNT0□ COG 82pF ±5% 50 FG28COG1H820JNT0□ COG 10pF ±5% 50 FG28COG1H120JNT0□ COG 120pF ±5% 50 FG28COG1H121JNT0□ COG 150pF ±5% 50 FG28COG1H181JNT0□ COG 150pF ±5% 50 FG28COG1H81JNT0□ COG 220pF ±5% 50 FG28COG1H81JNT0□ COG 330pF ±5% 50 FG2	COG	18pF		50	
COG 27pF ±5% 50 FG28COG1H270JNT0□ COG 33pF ±5% 50 FG28COG1H330JNT0□ COG 39pF ±5% 50 FG28COG1H390JNT0□ COG 47pF ±5% 50 FG28COG1H660JNT0□ COG 56pF ±5% 50 FG28COG1H680JNT0□ COG 68pF ±5% 50 FG28COG1H80JNT0□ COG 68pF ±5% 50 FG28COG1H80JNT0□ COG 100pF ±5% 50 FG28COG1H80JNT0□ COG 120pF ±5% 50 FG28COG1H10JNT0□ COG 120pF ±5% 50 FG28COG1H12JNT0□ COG 120pF ±5% 50 FG28COG1H12JNT0□ COG 150pF ±5% 50 FG28COG1H181JNT0□ COG 150pF ±5% 50 FG28COG1H22JNT0□ COG 220pF ±5% 50 FG28COG1H22JNT0□ COG 270pF ±5% 50 FG28CO	COG	22pF		50	
COG 33pF ±5% 50 FG28COG1H330JNTO□ COG 33pF ±5% 50 FG28COG1H390JNTO□ COG 47pF ±5% 50 FG28COG1H480JNTO□ COG 56pF ±5% 50 FG28COG1H680JNTO□ COG 68pF ±5% 50 FG28COG1H680JNTO□ COG 82pF ±5% 50 FG28COG1H182JNTO□ COG 100pF ±5% 50 FG28COG1H12JNTO□ COG 120pF ±5% 50 FG28COG1H12JNTO□ COG 150pF ±5% 50 FG28COG1H12JNTO□ COG 150pF ±5% 50 FG28COG1H121JNTO□ COG 150pF ±5% 50 FG28COG1H121JNTO□ COG 220pF ±5% 50 FG28COG1H121JNTO□ COG 270pF ±5% 50 FG28COG1H227JNTO□ COG 270pF ±5% 50 FG28COG1H331JNTO□ COG 390pF ±5% 50	C0G	27pF		50	
COG 39pF ±5% 50 FG28COG1H390NTO□ COG 47pF ±5% 50 FG28COG1H470JNTO□ COG 56pF ±5% 50 FG28COG1H860JNTO□ COG 68pF ±5% 50 FG28COG1H860JNTO□ COG 82pF ±5% 50 FG28COG1H820JNTO□ COG 100pF ±5% 50 FG28COG1H101JNTO□ COG 120pF ±5% 50 FG28COG1H1121JNTO□ COG 150pF ±5% 50 FG28COG1H121JNTO□ COG 150pF ±5% 50 FG28COG1H221JNTO□ COG 220pF ±5% 50 FG28COG1H221JNTO□ COG 220pF ±5% 50 FG28COG1H221JNTO□ COG 230pF ±5% 50 FG28COG1H221JNTO□ COG 330pF ±5% 50 FG28COG1H227JNTO□ COG 330pF ±5% 50 FG28COG1H391JNTO□ COG 470pF ±5% 50					
COG 47pF ±5% 50 FG28COG1H470,NTO□ COG 56pF ±5% 50 FG28COG1H860,NTO□ COG 68pF ±5% 50 FG28COG1H880,NTO□ COG 82pF ±5% 50 FG28COG1H80,NTO□ COG 10pF ±5% 50 FG28COG1H101,NTO□ COG 120pF ±5% 50 FG28COG1H121,NTO□ COG 150pF ±5% 50 FG28COG1H151,NTO□ COG 180pF ±5% 50 FG28COG1H221,NTO□ COG 220pF ±5% 50 FG28COG1H221,NTO□ COG 270pF ±5% 50 FG28COG1H221,NTO□ COG 330pF ±5% 50 FG28COG1H331,NTO□ COG 390pF ±5% 50 FG28COG1H471,NTO□ COG 470pF ±5% 50 FG28COG1H471,NTO□ COG 560pF ±5% 50 FG28COG1H861,NTO□ COG 680pF ±5% 50 <	C0G	•		50	
COG 56pF ±5% 50 FG28COG1H660JNTO□ COG 68pF ±5% 50 FG28COG1H860JNTO□ COG 82pF ±5% 50 FG28COG1H10JNTO□ COG 100pF ±5% 50 FG28COG1H10JNTO□ COG 120pF ±5% 50 FG28COG1H15JNTO□ COG 150pF ±5% 50 FG28COG1H18JNTO□ COG 180pF ±5% 50 FG28COG1H22JNTO□ COG 220pF ±5% 50 FG28COG1H27JNTO□ COG 270pF ±5% 50 FG28COG1H27JNTO□ COG 330pF ±5% 50 FG28COG1H33JNTO□ COG 390pF ±5% 50 FG28COG1H39JNTO□ COG 470pF ±5% 50 FG28COG1H47JNTO□ COG 560pF ±5% 50 FG28COG1H86JNTO□ COG 560pF ±5% 50 FG28COG1H86JNTO□ COG 680pF ±5% 50 FG28CO		• • • • • • • • • • • • • • • • • • •			
COG 68pF ±5% 50 FG28COG1H680JNTO□ COG 82pF ±5% 50 FG28COG1H82UNTO□ COG 100pF ±5% 50 FG28COG1H101JNTO□ COG 120pF ±5% 50 FG28COG1H121JNTO□ COG 150pF ±5% 50 FG28COG1H181JNTO□ COG 180pF ±5% 50 FG28COG1H21JNTO□ COG 220pF ±5% 50 FG28COG1H221JNTO□ COG 270pF ±5% 50 FG28COG1H271JNTO□ COG 330pF ±5% 50 FG28COG1H271JNTO□ COG 330pF ±5% 50 FG28COG1H331JNTO□ COG 390pF ±5% 50 FG28COG1H391JNTO□ COG 470pF ±5% 50 FG28COG1H451JNTO□ COG 560pF ±5% 50 FG28COG1H861JNTO□ COG 680pF ±5% 50 FG28COG1H821JNTO□ COG 1nF ±5% 50 <					
COG 82pF ±5% 50 FG28COG1H820JNTO□ COG 100pF ±5% 50 FG28COG1H101JNTO□ COG 120pF ±5% 50 FG28COG1H12JNTO□ COG 150pF ±5% 50 FG28COG1H15JNTO□ COG 180pF ±5% 50 FG28COG1H22JNTO□ COG 220pF ±5% 50 FG28COG1H22JNTO□ COG 270pF ±5% 50 FG28COG1H22JNTO□ COG 330pF ±5% 50 FG28COG1H33JNTO□ COG 390pF ±5% 50 FG28COG1H39JNTO□ COG 390pF ±5% 50 FG28COG1H47JNTO□ COG 470pF ±5% 50 FG28COG1H56JNTO□ COG 560pF ±5% 50 FG28COG1H56JNTO□ COG 680pF ±5% 50 FG28COG1H56JNTO□ COG 1nF ±5% 50 FG28COG1H82JNTO□ COG 1.5nF ±5% 50 FG28CO	COG	68pF		50	
COG 100pF ±5% 50 FG28COG1H101JNT0□ COG 120pF ±5% 50 FG28COG1H121JNT0□ COG 150pF ±5% 50 FG28COG1H121JNT0□ COG 180pF ±5% 50 FG28COG1H181JNT0□ COG 220pF ±5% 50 FG28COG1H221JNT0□ COG 270pF ±5% 50 FG28COG1H271JNT0□ COG 330pF ±5% 50 FG28COG1H271JNT0□ COG 390pF ±5% 50 FG28COG1H331JNT0□ COG 390pF ±5% 50 FG28COG1H391JNT0□ COG 470pF ±5% 50 FG28COG1H471JNT0□ COG 560pF ±5% 50 FG28COG1H681JNT0□ COG 680pF ±5% 50 FG28COG1H881JNT0□ COG 680pF ±5% 50 FG28COG1H82JNT0□ COG 1.5nF ±5% 50 FG28COG1H32JNT0□ COG 1.2nF ±5% 50	COG	82pF		50	
COG 120pF ±5% 50 FG28COG1H121JNTO□ COG 150pF ±5% 50 FG28COG1H151JNTO□ COG 180pF ±5% 50 FG28COG1H181JNTO□ COG 220pF ±5% 50 FG28COG1H221JNTO□ COG 270pF ±5% 50 FG28COG1H221JNTO□ COG 330pF ±5% 50 FG28COG1H331JNTO□ COG 390pF ±5% 50 FG28COG1H391JNTO□ COG 390pF ±5% 50 FG28COG1H391JNTO□ COG 470pF ±5% 50 FG28COG1H471JNTO□ COG 560pF ±5% 50 FG28COG1H681JNTO□ COG 680pF ±5% 50 FG28COG1H881JNTO□ COG 820pF ±5% 50 FG28COG1H881JNTO□ COG 820pF ±5% 50 FG28COG1H102JNTO□ COG 1.2nF ±5% 50 FG28COG1H102JNTO□ COG 1.5nF ±5% 50	COG	100pF		50	
COG 150pF ±5% 50 FG28COG1H151JNTO□ COG 180pF ±5% 50 FG28COG1H181JNTO□ COG 220pF ±5% 50 FG28COG1H221JNTO□ COG 270pF ±5% 50 FG28COG1H271JNTO□ COG 330pF ±5% 50 FG28COG1H331JNTO□ COG 390pF ±5% 50 FG28COG1H391JNTO□ COG 470pF ±5% 50 FG28COG1H471JNTO□ COG 560pF ±5% 50 FG28COG1H561JNTO□ COG 680pF ±5% 50 FG28COG1H851JNTO□ COG 820pF ±5% 50 FG28COG1H821JNTO□ COG 820pF ±5% 50 FG28COG1H821JNTO□ COG 1.2nF ±5% 50 FG28COG1H102JNTO□ COG 1.2nF ±5% 50 FG28COG1H152JNTO□ COG 1.5nF ±5% 50 FG28COG1H182JNTO□ COG 2.2nF ±5% 50				50	
COG 180pF ±5% 50 FG28COG1H181JNTO□ COG 220pF ±5% 50 FG28COG1H221JNTO□ COG 270pF ±5% 50 FG28COG1H271JNTO□ COG 330pF ±5% 50 FG28COG1H331JNTO□ COG 390pF ±5% 50 FG28COG1H391JNTO□ COG 470pF ±5% 50 FG28COG1H471JNTO□ COG 470pF ±5% 50 FG28COG1H561JNTO□ COG 560pF ±5% 50 FG28COG1H681JNTO□ COG 680pF ±5% 50 FG28COG1H681JNTO□ COG 820pF ±5% 50 FG28COG1H821JNTO□ COG 1nF ±5% 50 FG28COG1H102JNTO□ COG 1.2nF ±5% 50 FG28COG1H152JNTO□ COG 1.5nF ±5% 50 FG28COG1H182JNTO□ COG 1.8nF ±5% 50 FG28COG1H22JNTO□ COG 2.2nF ±5% 50		150pF		50	
COG 220pF ±5% 50 FG28COG1H221JNTO□ COG 270pF ±5% 50 FG28COG1H271JNTO□ COG 330pF ±5% 50 FG28COG1H331JNTO□ COG 390pF ±5% 50 FG28COG1H391JNTO□ COG 470pF ±5% 50 FG28COG1H471JNTO□ COG 560pF ±5% 50 FG28COG1H561JNTO□ COG 680pF ±5% 50 FG28COG1H81JNTO□ COG 820pF ±5% 50 FG28COG1H821JNTO□ COG 1nF ±5% 50 FG28COG1H102JNTO□ COG 1.2nF ±5% 50 FG28COG1H12JNTO□ COG 1.5nF ±5% 50 FG28COG1H152JNTO□ COG 1.8nF ±5% 50 FG28COG1H182JNTO□ COG 2.2nF ±5% 50 FG28COG1H22JNTO□ COG 3.3nF ±5% 50 FG28COG1H332JNTO□ COG 3.9nF ±5% 50	COG	180pF		50	
COG 270pF ±5% 50 FG28COG1H271JNTO□ COG 330pF ±5% 50 FG28COG1H331JNTO□ COG 390pF ±5% 50 FG28COG1H391JNTO□ COG 470pF ±5% 50 FG28COG1H471JNTO□ COG 560pF ±5% 50 FG28COG1H561JNTO□ COG 680pF ±5% 50 FG28COG1H681JNTO□ COG 820pF ±5% 50 FG28COG1H821JNTO□ COG 1nF ±5% 50 FG28COG1H821JNTO□ COG 1.2nF ±5% 50 FG28COG1H102JNTO□ COG 1.5nF ±5% 50 FG28COG1H122JNTO□ COG 1.8nF ±5% 50 FG28COG1H182JNTO□ COG 2.2nF ±5% 50 FG28COG1H222JNTO□ COG 2.7nF ±5% 50 FG28COG1H332JNTO□ COG 3.3nF ±5% 50 FG28COG1H392JNTO□ COG 4.7nF ±5% 50		<u> </u>			
COG 330pF ±5% 50 FG28COG1H331JNT0□ COG 390pF ±5% 50 FG28COG1H391JNT0□ COG 470pF ±5% 50 FG28COG1H471JNT0□ COG 560pF ±5% 50 FG28COG1H561JNT0□ COG 680pF ±5% 50 FG28COG1H681JNT0□ COG 820pF ±5% 50 FG28COG1H821JNT0□ COG 1nF ±5% 50 FG28COG1H102JNT0□ COG 1.2nF ±5% 50 FG28COG1H122JNT0□ COG 1.5nF ±5% 50 FG28COG1H182JNT0□ COG 1.8nF ±5% 50 FG28COG1H182JNT0□ COG 2.2nF ±5% 50 FG28COG1H22JNT0□ COG 2.7nF ±5% 50 FG28COG1H332JNT0□ COG 3.3nF ±5% 50 FG28COG1H472JNT0□ COG 4.7nF ±5% 50 FG28COG1H462JNT0□ COG 5.6nF ±5% 50	COG	270pF		50	
COG 390pF ±5% 50 FG28COG1H391JNTO□ COG 470pF ±5% 50 FG28COG1H471JNTO□ COG 560pF ±5% 50 FG28COG1H561JNTO□ COG 680pF ±5% 50 FG28COG1H681JNTO□ COG 820pF ±5% 50 FG28COG1H821JNTO□ COG 1nF ±5% 50 FG28COG1H102JNTO□ COG 1.2nF ±5% 50 FG28COG1H122JNTO□ COG 1.5nF ±5% 50 FG28COG1H152JNTO□ COG 1.8nF ±5% 50 FG28COG1H82JNTO□ COG 2.2nF ±5% 50 FG28COG1H22JNTO□ COG 2.7nF ±5% 50 FG28COG1H332JNTO□ COG 3.3nF ±5% 50 FG28COG1H392JNTO□ COG 4.7nF ±5% 50 FG28COG1H562JNTO□ COG 5.6nF ±5% 50 FG28COG1H682JNTO□		•		50	
COG 470pF ±5% 50 FG28COG1H47JNTO□ COG 560pF ±5% 50 FG28COG1H561JNTO□ COG 680pF ±5% 50 FG28COG1H681JNTO□ COG 820pF ±5% 50 FG28COG1H821JNTO□ COG 1nF ±5% 50 FG28COG1H102JNTO□ COG 1.2nF ±5% 50 FG28COG1H122JNTO□ COG 1.5nF ±5% 50 FG28COG1H152JNTO□ COG 1.8nF ±5% 50 FG28COG1H22JNTO□ COG 2.2nF ±5% 50 FG28COG1H222JNTO□ COG 2.7nF ±5% 50 FG28COG1H332JNTO□ COG 3.3nF ±5% 50 FG28COG1H332JNTO□ COG 4.7nF ±5% 50 FG28COG1H472JNTO□ COG 5.6nF ±5% 50 FG28COG1H682JNTO□ COG 6.8nF ±5% 50 FG28COG1H682JNTO□		<u> </u>			
COG 560pF ±5% 50 FG28COG1H561JNT0□ COG 680pF ±5% 50 FG28COG1H681JNT0□ COG 820pF ±5% 50 FG28COG1H821JNT0□ COG 1nF ±5% 50 FG28COG1H102JNT0□ COG 1.2nF ±5% 50 FG28COG1H122JNT0□ COG 1.5nF ±5% 50 FG28COG1H152JNT0□ COG 1.8nF ±5% 50 FG28COG1H182JNT0□ COG 2.2nF ±5% 50 FG28COG1H222JNT0□ COG 2.7nF ±5% 50 FG28COG1H322JNT0□ COG 3.3nF ±5% 50 FG28COG1H332JNT0□ COG 3.9nF ±5% 50 FG28COG1H472JNT0□ COG 4.7nF ±5% 50 FG28COG1H562JNT0□ COG 5.6nF ±5% 50 FG28COG1H682JNT0□		<u> </u>			
COG 680pF ±5% 50 FG28COG1H681JNT0□ COG 820pF ±5% 50 FG28COG1H821JNT0□ COG 1nF ±5% 50 FG28COG1H102JNT0□ COG 1.2nF ±5% 50 FG28COG1H122JNT0□ COG 1.5nF ±5% 50 FG28COG1H152JNT0□ COG 1.8nF ±5% 50 FG28COG1H182JNT0□ COG 2.2nF ±5% 50 FG28COG1H222JNT0□ COG 2.7nF ±5% 50 FG28COG1H272JNT0□ COG 3.3nF ±5% 50 FG28COG1H332JNT0□ COG 3.9nF ±5% 50 FG28COG1H472JNT0□ COG 4.7nF ±5% 50 FG28COG1H472JNT0□ COG 5.6nF ±5% 50 FG28COG1H562JNT0□ COG 6.8nF ±5% 50 FG28COG1H682JNT0□	COG	560pF		50	
COG 820pF ±5% 50 FG28COG1H82JJNT0□ COG 1nF ±5% 50 FG28COG1H102JNT0□ COG 1.2nF ±5% 50 FG28COG1H122JNT0□ COG 1.5nF ±5% 50 FG28COG1H152JNT0□ COG 1.8nF ±5% 50 FG28COG1H182JNT0□ COG 2.2nF ±5% 50 FG28COG1H222JNT0□ COG 2.7nF ±5% 50 FG28COG1H272JNT0□ COG 3.3nF ±5% 50 FG28COG1H332JNT0□ COG 3.9nF ±5% 50 FG28COG1H392JNT0□ COG 4.7nF ±5% 50 FG28COG1H472JNT0□ COG 5.6nF ±5% 50 FG28COG1H562JNT0□ COG 6.8nF ±5% 50 FG28COG1H682JNT0□	COG	680pF		50	
COG 1nF ±5% 50 FG28COG1H102JNT0□ COG 1.2nF ±5% 50 FG28COG1H122JNT0□ COG 1.5nF ±5% 50 FG28COG1H152JNT0□ COG 1.8nF ±5% 50 FG28COG1H182JNT0□ COG 2.2nF ±5% 50 FG28COG1H222JNT0□ COG 2.7nF ±5% 50 FG28COG1H272JNT0□ COG 3.3nF ±5% 50 FG28COG1H332JNT0□ COG 3.9nF ±5% 50 FG28COG1H392JNT0□ COG 4.7nF ±5% 50 FG28COG1H472JNT0□ COG 5.6nF ±5% 50 FG28COG1H562JNT0□ COG 6.8nF ±5% 50 FG28COG1H682JNT0□					_
COG 1.2nF ±5% 50 FG28COG1H122JNT0□ COG 1.5nF ±5% 50 FG28COG1H152JNT0□ COG 1.8nF ±5% 50 FG28COG1H182JNT0□ COG 2.2nF ±5% 50 FG28COG1H222JNT0□ COG 2.7nF ±5% 50 FG28COG1H272JNT0□ COG 3.3nF ±5% 50 FG28COG1H332JNT0□ COG 3.9nF ±5% 50 FG28COG1H392JNT0□ COG 4.7nF ±5% 50 FG28COG1H472JNT0□ COG 5.6nF ±5% 50 FG28COG1H562JNT0□ COG 6.8nF ±5% 50 FG28COG1H682JNT0□		•		50	
COG 1.5nF ±5% 50 FG28COG1H152JNT0□ COG 1.8nF ±5% 50 FG28COG1H182JNT0□ COG 2.2nF ±5% 50 FG28COG1H222JNT0□ COG 2.7nF ±5% 50 FG28COG1H272JNT0□ COG 3.3nF ±5% 50 FG28COG1H332JNT0□ COG 3.9nF ±5% 50 FG28COG1H392JNT0□ COG 4.7nF ±5% 50 FG28COG1H472JNT0□ COG 5.6nF ±5% 50 FG28COG1H562JNT0□ COG 6.8nF ±5% 50 FG28COG1H682JNT0□		1.2nF			
COG 1.8nF ±5% 50 FG28COG1H182JNT0 COG 2.2nF ±5% 50 FG28COG1H222JNT0 COG 2.7nF ±5% 50 FG28COG1H272JNT0 COG 3.3nF ±5% 50 FG28COG1H332JNT0 COG 3.9nF ±5% 50 FG28COG1H392JNT0 COG 4.7nF ±5% 50 FG28COG1H472JNT0 COG 5.6nF ±5% 50 FG28COG1H562JNT0 COG 6.8nF ±5% 50 FG28COG1H682JNT0					
COG 2.2nF ±5% 50 FG28COG1H222JNT0□ COG 2.7nF ±5% 50 FG28COG1H272JNT0□ COG 3.3nF ±5% 50 FG28COG1H332JNT0□ COG 3.9nF ±5% 50 FG28COG1H392JNT0□ COG 4.7nF ±5% 50 FG28COG1H472JNT0□ COG 5.6nF ±5% 50 FG28COG1H562JNT0□ COG 6.8nF ±5% 50 FG28COG1H682JNT0□	COG	1.8nF		50	
COG 2.7nF ±5% 50 FG28COG1H272JNT0□ COG 3.3nF ±5% 50 FG28COG1H332JNT0□ COG 3.9nF ±5% 50 FG28COG1H392JNT0□ COG 4.7nF ±5% 50 FG28COG1H472JNT0□ COG 5.6nF ±5% 50 FG28COG1H562JNT0□ COG 6.8nF ±5% 50 FG28COG1H682JNT0□	COG	2.2nF		50	
COG 3.3nF ±5% 50 FG28C0G1H332JNT0 COG 3.9nF ±5% 50 FG28C0G1H392JNT0 COG 4.7nF ±5% 50 FG28C0G1H472JNT0 COG 5.6nF ±5% 50 FG28C0G1H562JNT0 COG 6.8nF ±5% 50 FG28C0G1H682JNT0					
COG 3.9nF ±5% 50 FG28C0G1H392JNT0 COG 4.7nF ±5% 50 FG28C0G1H472JNT0 COG 5.6nF ±5% 50 FG28C0G1H562JNT0 COG 6.8nF ±5% 50 FG28C0G1H682JNT0					
C0G 4.7nF ±5% 50 FG28C0G1H472JNT0□ C0G 5.6nF ±5% 50 FG28C0G1H562JNT0□ C0G 6.8nF ±5% 50 FG28C0G1H682JNT0□					
C0G 5.6nF ±5% 50 FG28C0G1H562JNT0□ C0G 6.8nF ±5% 50 FG28C0G1H682JNT0□					_
C0G 6.8nF ±5% 50 FG28C0G1H682JNT0					

^{*} The part numbers are TDK's standard specification products.

^{**} The " \square " of the Part Number contains the packaging symbol, 0 (Bulk packaging) or 6 (Taping packaging).



■ ELECTRICAL CHARACTERISTICS

CHARACTERISTICS SPECIFICATION TABLE

Temperature characteristics	Capacitance	Tolerance	Rated voltage Edc (V)	Part No.*
C0G	10nF	±5%	50	FG28C0G1H103JNT0□**
C0G	1.0pF	±0.25pF	100	FG28C0G2A010CNT0□
C0G	1.5pF	±0.25pF	100	FG28C0G2A1R5CNT0□
C0G	2.0pF	±0.25pF	100	FG28C0G2A020CNT0□
C0G	2.2pF	±0.25pF	100	FG28C0G2A2R2CNT0□
C0G	3.0pF	±0.25pF	100	FG28C0G2A030CNT0□
C0G	3.3pF	±0.25pF	100	FG28C0G2A3R3CNT0□
C0G	4.0pF	±0.25pF	100	FG28C0G2A040CNT0□
C0G	4.7pF	±0.25pF	100	FG28C0G2A4R7CNT0□
C0G	5.0pF	±0.25pF	100	FG28C0G2A050CNT0□
C0G	6.0pF	±0.5pF	100	FG28C0G2A060DNT0□
C0G	6.8pF	±0.5pF	100	FG28C0G2A6R8DNT0□
C0G	7.0pF	±0.5pF	100	FG28C0G2A070DNT0□
C0G	8.0pF	±0.5pF	100	FG28C0G2A080DNT0□
C0G	9.0pF	±0.5pF	100	FG28C0G2A090DNT0□
C0G	10pF	±0.5pF	100	FG28C0G2A100DNT0□
C0G	12pF	±5%	100	FG28C0G2A120JNT0
C0G	15pF	±5%	100	FG28C0G2A150JNT0
C0G	18pF	±5%	100	FG28C0G2A180JNT0
C0G	22pF	±5%	100	FG28C0G2A220JNT0
C0G	27pF	±5%	100	FG28C0G2A270JNT0
C0G	33pF	±5%	100	FG28C0G2A330JNT0
C0G	39pF	±5%	100	FG28C0G2A390JNT0
C0G	47pF	±5%	100	FG28C0G2A470JNT0
C0G	56pF	±5%	100	FG28C0G2A560JNT0
C0G	68pF	±5%	100	FG28C0G2A680JNT0
C0G	82pF	±5%	100	FG28C0G2A820JNT0
C0G	100pF	±5%	100	FG28C0G2A101JNT0
C0G	120pF	±5%	100	FG28C0G2A121JNT0
C0G	150pF	±5%	100	FG28C0G2A151JNT0
C0G	180pF	±5%	100	FG28C0G2A181JNT0
C0G	220pF	±5%	100	FG28C0G2A221JNT0
COG	270pF	±5%	100	FG28C0G2A271JNT0
C0G	330pF	±5%	100	FG28C0G2A331JNT0
C0G	390pF	±5%	100	FG28C0G2A391JNT0
C0G	470pF	±5%	100	FG28C0G2A471JNT0
C0G	560pF	±5%	100	FG28C0G2A561JNT0
C0G	680pF	±5%	100	FG28C0G2A681JNT0
C0G	820pF	±5%	100	FG28C0G2A821JNT0
C0G	1nF	±5%	100	FG28C0G2A102JNT0
C0G	1.2nF	±5%	100	FG28C0G2A122JNT0
COG	1.5nF	±5%	100	FG28C0G2A152JNT0
COG	1.8nF	±5%	100	FG28C0G2A182JNT0
COG	2.2nF	±5%	100	FG28C0G2A222JNT0
C0G	2.7nF	±5%	100	FG28C0G2A272JNT0
C0G	3.3nF	±5%	100	FG28C0G2A332JNT0
COG	3.9nF	±5%	100	FG28C0G2A392JRT0
C0G	4.7nF	±5%	100	FG28C0G2A472JRT0
COG	5.6nF	±5%	100	FG28C0G2A562JRT0
COG	6.8nF	±5%	100	FG28C0G2A682JRT0
COG	8.2nF	±5%	100	FG28C0G2A822JRT0
COG	10nF	±5%	100	FG28C0G2A103JRT0
		± 0 /0		. 0.200001110

^{*} The part numbers are TDK's standard specification products.

^{**} The " - " of the Part Number contains the packaging symbol, 0 (Bulk packaging) or 6 (Taping packaging).



■ ELECTRICAL CHARACTERISTICS

CHARACTERISTICS SPECIFICATION TABLE

(/		
Temperature characteristics	Capacitance	Tolerance	Rated voltage Edc (V)	Part No.*
C0G	100pF	±5%	250	FG28C0G2E101JNT0 = **
C0G	120pF	±5%	250	FG28C0G2E121JNT0
C0G	150pF	±5%	250	FG28C0G2E151JNT0
C0G	180pF	±5%	250	FG28C0G2E181JNT0□
C0G	220pF	±5%	250	FG28C0G2E221JNT0□
C0G	270pF	±5%	250	FG28C0G2E271JNT0
C0G	330pF	±5%	250	FG28C0G2E331JNT0
C0G	390pF	±5%	250	FG28C0G2E391JNT0□
COG	470pF	±5%	250	FG28C0G2E471JNT0
C0G	560pF	±5%	250	FG28C0G2E561JNT0
C0G	680pF	±5%	250	FG28C0G2E681JNT0
C0G	820pF	±5%	250	FG28C0G2E821JNT0□
COG	1nF	±5%	250	FG28C0G2E102JNT0
C0G	1.2nF	±5%	250	FG28C0G2E122JNT0□
C0G	1.5nF	±5%	250	FG28C0G2E152JNT0
C0G	1.8nF	±5%	250	FG28C0G2E182JNT0
C0G	2.2nF	±5%	250	FG28C0G2E222JNT0

 $^{^{\}star}$ The part numbers are TDK's standard specification products.

^{**} The " \square " of the Part Number contains the packaging symbol, 0 (Bulk packaging) or 6 (Taping packaging).



■ ELECTRICAL CHARACTERISTICS

CHARACTERISTICS SPECIFICATION TABLE

Temperature characteristics	Capacitance	Tolerance	Rated voltage Edc (V)	Part No.*
X5R	1.5uF	±10%	25	FG28X5R1E155KRT0 = **
X5R	2.2uF	±10%	25	FG28X5R1E225KRT0□
X5R	3.3uF	±10%	25	FG28X5R1E335KRT0□
X5R	4.7uF	±10%	25	FG28X5R1E475KRT0□
X5R	6.8uF	±10%	25	FG28X5R1E685KRT0
X5R	10uF	±20%	25	FG28X5R1E106MRT0
X5R	680nF	±10%	50	FG28X5R1H684KRT0□
X5R	1uF	±10%	50	FG28X5R1H105KRT0□
X7R	1.5uF	±10%	10	FG28X7R1A155KRT0
X7R	2.2uF	±10%	10	FG28X7R1A225KRT0□
X7R	150nF	±10%	25	FG28X7R1E154KNT0
X7R	680nF	±10%	25	FG28X7R1E684KRT0□
X7R	1uF	±10%	25	FG28X7R1E105KRT0□
X7R	1nF	±10%	50	FG28X7R1H102KNT0
X7R	1.5nF	±10%	50	FG28X7R1H152KNT0□
X7R	2.2nF	±10%	50	FG28X7R1H222KNT0
X7R	3.3nF	±10%	50	FG28X7R1H332KNT0
X7R	4.7nF	±10%	50	FG28X7R1H472KNT0
X7R	6.8nF	±10%	50	FG28X7R1H682KNT0
X7R	10nF	±10%	50	FG28X7R1H103KNT0□
X7R	15nF	±10%	50	FG28X7R1H153KNT0
X7R	22nF	±10%	50	FG28X7R1H223KNT0
X7R	33nF	±10%	50	FG28X7R1H333KNT0□
X7R	47nF	±10%	50	FG28X7R1H473KNT0□
X7R	68nF	±10%	50	FG28X7R1H683KNT0
X7R	100nF	±10%	50	FG28X7R1H104KNT0
X7R	150nF	±10%	50	FG28X7R1H154KRT0
X7R	220nF	±10%	50	FG28X7R1H224KRT0□
X7R	330nF	±10%	50	FG28X7R1H334KRT0□
X7R	470nF	±10%	50	FG28X7R1H474KRT0
X7R	1nF	±10%	100	FG28X7R2A102KNT0
X7R	1.5nF	±10%	100	FG28X7R2A152KNT0□
X7R	2.2nF	±10%	100	FG28X7R2A222KNT0
X7R	3.3nF	±10%	100	FG28X7R2A332KNT0□
X7R	4.7nF	±10%	100	FG28X7R2A472KNT0
X7R	6.8nF	±10%	100	FG28X7R2A682KNT0□
X7R	10nF	±10%	100	FG28X7R2A103KNT0
X7R	15nF	±10%	100	FG28X7R2A153KNT0□
X7R	22nF	±10%	100	FG28X7R2A223KNT0□
X7S	33nF	±10%	100	FG28X7S2A333KRT0□
X7S	47nF	±10%	100	FG28X7S2A473KRT0□
X7S	68nF	±10%	100	FG28X7S2A683KRT0□
X7S	100nF	±10%	100	FG28X7S2A104KRT0□

^{*} The part numbers are TDK's standard specification products.

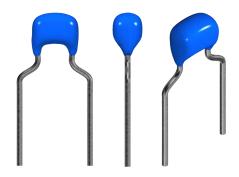
^{**} The " \square " of the Part Number contains the packaging symbol, 0 (Bulk packaging) or 6 (Taping packaging).



FG24 type









FG24 type

■ ELECTRICAL CHARACTERISTICS

CHARACTERISTICS SPECIFICATION TABLE

Temperature characteristics	Capacitance	Tolerance	Rated voltage Edc (V)	Part No.*
C0G	15nF	±5%	50	FG24C0G1H153JNT0 = **
C0G	22nF	±5%	50	FG24C0G1H223JNT0□
C0G	33nF	±5%	50	FG24C0G1H333JNT0
C0G	3.9nF	±5%	100	FG24C0G2A392JNT0
COG	4.7nF	±5%	100	FG24C0G2A472JNT0
C0G	5.6nF	±5%	100	FG24C0G2A562JNT0
C0G	6.8nF	±5%	100	FG24C0G2A682JNT0
C0G	8.2nF	±5%	100	FG24C0G2A822JNT0
C0G	10nF	±5%	100	FG24C0G2A103JNT0
C0G	15nF	±5%	100	FG24C0G2A153JRT0□
COG	22nF	±5%	100	FG24C0G2A223JRT0□
C0G	33nF	±5%	100	FG24C0G2A333JRT0□
COG	2.7nF	±5%	250	FG24C0G2E272JNT0
C0G	3.3nF	±5%	250	FG24C0G2E332JNT0
C0G	3.9nF	±5%	250	FG24C0G2E392JNT0
C0G	4.7nF	±5%	250	FG24C0G2E472JNT0
C0G	5.6nF	±5%	250	FG24C0G2E562JNT0
COG	6.8nF	±5%	250	FG24C0G2E682JNT0
COG	8.2nF	±5%	250	FG24C0G2E822JNT0
C0G	10nF	±5%	250	FG24C0G2E103JNT0
C0G	100pF	±5%	450	FG24C0G2W101JNT0
C0G	120pF	±5%	450	FG24C0G2W121JNT0
C0G	150pF	±5%	450	FG24C0G2W151JNT0
C0G	180pF	±5%	450	FG24C0G2W181JNT0
C0G	220pF	±5%	450	FG24C0G2W221JNT0
C0G	270pF	±5%	450	FG24C0G2W271JNT0
C0G	330pF	±5%	450	FG24C0G2W331JNT0
C0G	390pF	±5%	450	FG24C0G2W391JNT0
C0G	470pF	±5%	450	FG24C0G2W471JNT0
C0G	560pF	±5%	450	FG24C0G2W561JNT0
C0G	680pF	±5%	450	FG24C0G2W681JNT0
C0G	820pF	±5%	450	FG24C0G2W821JNT0
C0G	1nF	±5%	450	FG24C0G2W102JNT0
C0G	1.2nF	±5%	450	FG24C0G2W122JNT0
C0G	1.5nF	±5%	450	FG24C0G2W152JNT0
C0G	1.8nF	±5%	450	FG24C0G2W182JNT0
C0G	2.2nF	±5%	450	FG24C0G2W222JNT0
C0G	2.7nF	±5%	450	FG24C0G2W272JNT0
C0G	3.3nF	±5%	450	FG24C0G2W332JNT0
C0G	3.9nF	±5%	450	FG24C0G2W392JNT0□
COG	4.7nF	±5%	450	FG24C0G2W472JNT0
C0G	5.6nF	±5%	450	FG24C0G2W562JNT0□

 $^{^{\}star}$ The part numbers are TDK's standard specification products.

^{**} The " \square " of the Part Number contains the packaging symbol, 0 (Bulk packaging) or 6 (Taping packaging).



FG24 type

■ ELECTRICAL CHARACTERISTICS

CHARACTERISTICS SPECIFICATION TABLE

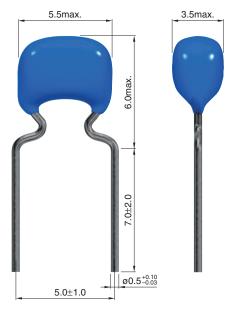
Temperature characteristics	Capacitance	Tolerance	Rated voltage Edc (V)	Part No.*
X5R	15uF	±20%	25	FG24X5R1E156MRT0 = **
X5R	3.3uF	±10%	50	FG24X5R1H335KRT0□
X5R	4.7uF	±10%	50	FG24X5R1H475KRT0□
X7R	6.8uF	±10%	10	FG24X7R1A685KRT0□
X7R	10uF	±10%	10	FG24X7R1A106KRT0□
X7R	680nF	±10%	16	FG24X7R1C684KNT0□
X7R	470nF	±10%	25	FG24X7R1E474KNT0
X7R	3.3uF	±10%	25	FG24X7R1E335KRT0□
X7R	4.7uF	±10%	25	FG24X7R1E475KRT0□
X7R	150nF	±10%	50	FG24X7R1H154KNT0□
X7R	220nF	±10%	50	FG24X7R1H224KNT0□
X7R	330nF	±10%	50	FG24X7R1H334KNT0□
X7R	680nF	±10%	50	FG24X7R1H684KRT0□
X7R	1uF	±10%	50	FG24X7R1H105KRT0□
X7R	1.5uF	±10%	50	FG24X7R1H155KRT0□
X7R	2.2uF	±10%	50	FG24X7R1H225KRT0□
X7R	33nF	±10%	100	FG24X7R2A333KNT0□
X7R	47nF	±10%	100	FG24X7R2A473KNT0□
X7R	68nF	±10%	100	FG24X7R2A683KNT0□
X7R	100nF	±10%	100	FG24X7R2A104KNT0□
X7R	1nF	±10%	250	FG24X7R2E102KNT0□
X7R	1.5nF	±10%	250	FG24X7R2E152KNT0□
X7R	2.2nF	±10%	250	FG24X7R2E222KNT0□
X7R	3.3nF	±10%	250	FG24X7R2E332KNT0□
X7R	4.7nF	±10%	250	FG24X7R2E472KNT0□
X7R	6.8nF	±10%	250	FG24X7R2E682KNT0□
X7R	10nF	±10%	250	FG24X7R2E103KNT0
X7R	15nF	±10%	250	FG24X7R2E153KNT0□
X7R	22nF	±10%	250	FG24X7R2E223KNT0□
X7S	150nF	±10%	100	FG24X7S2A154KRT0□
X7S	220nF	±10%	100	FG24X7S2A224KRT0□
X7S	330nF	±10%	100	FG24X7S2A334KRT0□
X7S	470nF	±10%	100	FG24X7S2A474KRT0□
X7S	680nF	±10%	100	FG24X7S2A684KRT0□
X7S	1uF	±10%	100	FG24X7S2A105KRT0□
X7T	33nF	±10%	250	FG24X7T2E333KNT0□
X7T	47nF	±10%	250	FG24X7T2E473KNT0□
X7T	68nF	±10%	250	FG24X7T2E683KNT0□
X7T	100nF	±10%	250	FG24X7T2E104KNT0□

^{*} The part numbers are TDK's standard specification products.

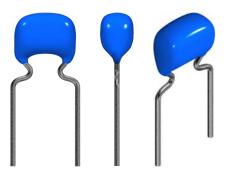
^{**} The " \square " of the Part Number contains the packaging symbol, 0 (Bulk packaging) or 6 (Taping packaging).



FG26 type









FG26 type

■ ELECTRICAL CHARACTERISTICS

CHARACTERISTICS SPECIFICATION TABLE

Temperature characteristics	Capacitance	Tolerance	Rated voltage Edc (V)	Part No.*
C0G	47nF	±5%	50	FG26C0G1H473JNT0 = **
C0G	68nF	±5%	50	FG26C0G1H683JNT0□
C0G	100nF	±5%	50	FG26C0G1H104JNT0
C0G	15nF	±5%	100	FG26C0G2A153JNT0□
C0G	22nF	±5%	100	FG26C0G2A223JNT0□
C0G	33nF	±5%	100	FG26C0G2A333JNT0□
C0G	47nF	±5%	100	FG26C0G2A473JRT0□
C0G	68nF	±5%	100	FG26C0G2A683JRT0□
C0G	100nF	±5%	100	FG26C0G2A104JRT0□
C0G	15nF	±5%	250	FG26C0G2E153JNT0□
C0G	22nF	±5%	250	FG26C0G2E223JNT0
C0G	6.8nF	±5%	450	FG26C0G2W682JNT0
C0G	8.2nF	±5%	450	FG26C0G2W822JNT0□
C0G	10nF	±5%	450	FG26C0G2W103JNT0□
C0G	15nF	±5%	450	FG26C0G2W153JNT0
C0G	100pF	±5%	630	FG26C0G2J101JNT0
C0G	120pF	±5%	630	FG26C0G2J121JNT0
C0G	150pF	±5%	630	FG26C0G2J151JNT0□
C0G	180pF	±5%	630	FG26C0G2J181JNT0□
C0G	220pF	±5%	630	FG26C0G2J221JNT0□
C0G	270pF	±5%	630	FG26C0G2J271JNT0□
C0G	330pF	±5%	630	FG26C0G2J331JNT0□
C0G	390pF	±5%	630	FG26C0G2J391JNT0□
C0G	470pF	±5%	630	FG26C0G2J471JNT0□
C0G	560pF	±5%	630	FG26C0G2J561JNT0□
C0G	680pF	±5%	630	FG26C0G2J681JNT0□
C0G	820pF	±5%	630	FG26C0G2J821JNT0□
C0G	1nF	±5%	630	FG26C0G2J102JNT0□
C0G	1.2nF	±5%	630	FG26C0G2J122JNT0□
C0G	1.5nF	±5%	630	FG26C0G2J152JNT0□
C0G	1.8nF	±5%	630	FG26C0G2J182JNT0□
C0G	2.2nF	±5%	630	FG26C0G2J222JNT0□
C0G	2.7nF	±5%	630	FG26C0G2J272JNT0□
C0G	3.3nF	±5%	630	FG26C0G2J332JNT0□
C0G	3.9nF	±5%	630	FG26C0G2J392JNT0□
C0G	4.7nF	±5%	630	FG26C0G2J472JNT0□
C0G	5.6nF	±5%	630	FG26C0G2J562JNT0□
C0G	6.8nF	±5%	630	FG26C0G2J682JNT0□
C0G	8.2nF	±5%	630	FG26C0G2J822JNT0□
C0G	10nF	±5%	630	FG26C0G2J103JNT0□

 $^{^{\}star}$ The part numbers are TDK's standard specification products.

^{**} The " \square " of the Part Number contains the packaging symbol, 0 (Bulk packaging) or 6 (Taping packaging).



FG26 type

■ ELECTRICAL CHARACTERISTICS

CHARACTERISTICS SPECIFICATION TABLE

Temperature characteristics	Capacitance	Tolerance	Rated voltage Edc (V)	Part No.*
X5R	33uF	±20%	25	FG26X5R1E336MRT0 = **
X5R	6.8uF	±10%	50	FG26X5R1H685KRT0□
X5R	10uF	±10%	50	FG26X5R1H106KRT0
X7R	1uF	±10%	25	FG26X7R1E105KNT0□
X7R	1.5uF	±10%	25	FG26X7R1E155KNT0□
X7R	2.2uF	±10%	25	FG26X7R1E225KNT0□
X7R	6.8uF	±10%	25	FG26X7R1E685KRT0□
X7R	10uF	±10%	25	FG26X7R1E106KRT0□
X7R	470nF	±10%	50	FG26X7R1H474KNT0□
X7R	680nF	±10%	50	FG26X7R1H684KNT0□
X7R	3.3uF	±10%	50	FG26X7R1H335KRT0□
X7R	4.7uF	±10%	50	FG26X7R1H475KRT0□
X7R	150nF	±10%	100	FG26X7R2A154KNT0□
X7R	220nF	±10%	100	FG26X7R2A224KNT0□
X7R	330nF	±10%	100	FG26X7R2A334KNT0□
X7R	470nF	±10%	100	FG26X7R2A474KNT0□
X7R	680nF	±10%	100	FG26X7R2A684KNT0□
X7R	1uF	±10%	100	FG26X7R2A105KNT0□
X7R	33nF	±10%	250	FG26X7R2E333KNT0□
X7R	47nF	±10%	250	FG26X7R2E473KNT0□
X7R	68nF	±10%	250	FG26X7R2E683KNT0□
X7R	100nF	±10%	250	FG26X7R2E104KNT0□
X7R	1nF	±10%	630	FG26X7R2J102KNT0□
X7R	1.5nF	±10%	630	FG26X7R2J152KNT0□
X7R	2.2nF	±10%	630	FG26X7R2J222KNT0□
X7R	3.3nF	±10%	630	FG26X7R2J332KNT0□
X7R	4.7nF	±10%	630	FG26X7R2J472KNT0□
X7R	6.8nF	±10%	630	FG26X7R2J682KNT0□
X7R	10nF	±10%	630	FG26X7R2J103KNT0□
X7R	15nF	±10%	630	FG26X7R2J153KNT0□
X7R	22nF	±10%	630	FG26X7R2J223KNT0□
X7R	33nF	±10%	630	FG26X7R2J333KNT0□
X7S	1.5uF	±10%	100	FG26X7S2A155KRT0□
X7S	2.2uF	±10%	100	FG26X7S2A225KRT0□
X7S	3.3uF	±10%	100	FG26X7S2A335KRT0□
X7T	150nF	±10%	250	FG26X7T2E154KNT0□
X7T	220nF	±10%	250	FG26X7T2E224KNT0

 $^{^{\}star}$ The part numbers are TDK's standard specification products.

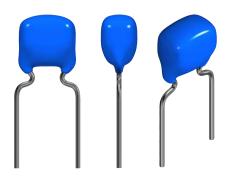
^{**} The " \square " of the Part Number contains the packaging symbol, 0 (Bulk packaging) or 6 (Taping packaging).



FG20 type









FG20 type

■ ELECTRICAL CHARACTERISTICS

CHARACTERISTICS SPECIFICATION TABLE

CLASS 1 (TEMPERATURE COMPENSATION)

Temperature characteristics	Capacitance	Tolerance	Rated voltage Edc (V)	Part No.*
C0G	47nF	±5%	100	FG20C0G2A473JNT0 = **
C0G	68nF	±5%	100	FG20C0G2A683JNT0□
C0G	33nF	±5%	250	FG20C0G2E333JNT0□
C0G	47nF	±5%	250	FG20C0G2E473JNT0□
C0G	22nF	±5%	450	FG20C0G2W223JNT0□
C0G	33nF	±5%	450	FG20C0G2W333JNT0□
C0G	15nF	±5%	630	FG20C0G2J153JNT0□
C0G	22nF	±5%	630	FG20C0G2J223JNT0□
C0G	33nF	±5%	630	FG20C0G2J333JNT0□

^{*} The part numbers are TDK's standard specification products.

Temperature characteristics	Capacitance	Tolerance	Rated voltage Edc (V)	Part No.*
X5R	68uF	±20%	6.3	FG20X5R0J686MRT0 = **
X5R	100uF	±20%	6.3	FG20X5R0J107MRT0□
X7R	15uF	±20%	16	FG20X7R1C156MRT0□
X7R	22uF	±20%	16	FG20X7R1C226MRT0□
X7R	3.3uF	±10%	25	FG20X7R1E335KNT0□
X7R	4.7uF	±10%	25	FG20X7R1E475KNT0□
X7R	1uF	±10%	50	FG20X7R1H105KNT0□
X7R	1.5uF	±10%	50	FG20X7R1H155KNT0□
X7R	10uF	±10%	50	FG20X7R1H106KRT0□
X7R	1.5uF	±10%	100	FG20X7R2A155KRT0□
X7R	2.2uF	±10%	100	FG20X7R2A225KRT0□
X7R	150nF	±10%	250	FG20X7R2E154KNT0□
X7R	220nF	±10%	250	FG20X7R2E224KNT0□
X7R	47nF	±10%	630	FG20X7R2J473KNT0□
X7R	68nF	±10%	630	FG20X7R2J683KNT0□
X7S	6.8uF	±10%	50	FG20X7S1H685KRT0□
X7S	10uF	±10%	50	FG20X7S1H106KRT0□
X7S	4.7uF	±10%	100	FG20X7S2A475KRT0□
X7T	330nF	±10%	250	FG20X7T2E334KNT0□

^{*} The part numbers are TDK's standard specification products.

^{**} The " \square " of the Part Number contains the packaging symbol, 0 (Bulk packaging) or 6 (Taping packaging).

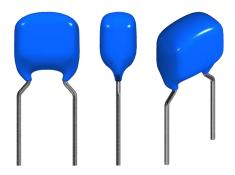
^{**} The " \square " of the Part Number contains the packaging symbol, 0 (Bulk packaging) or 6 (Taping packaging).



FG22 type









FG22 type

■ ELECTRICAL CHARACTERISTICS

CHARACTERISTICS SPECIFICATION TABLE

CLASS 1 (TEMPERATURE COMPENSATION)

Temperature characteristics	Capacitance	Tolerance	Rated voltage Edc (V)	Part No.*
C0G	150nF	±5%	50	FG22C0G1H154JNT0 = **
C0G	220nF	±5%	50	FG22C0G1H224JNT0□
C0G	100nF	±5%	100	FG22C0G2A104JNT0
C0G	68nF	±5%	250	FG22C0G2E683JRT0□
C0G	100nF	±5%	250	FG22C0G2E104JRT0□
C0G	47nF	±5%	450	FG22C0G2W473JNT0□
C0G	68nF	±5%	450	FG22C0G2W683JNT0□
C0G	47nF	±5%	630	FG22C0G2J473JNT0□

^{*} The part numbers are TDK's standard specification products.

Temperature characteristics	Capacitance	Tolerance	Rated voltage Edc (V)	Part No.*
X5R	47uF	±20%	10	FG22X5R1A476MNT0□**
X5R	33uF	±20%	16	FG22X5R1C336MNT0□
X7R	33uF	±20%	16	FG22X7R1C336MRT0□
X7R	10uF	±10%	25	FG22X7R1E106KNT0□
X7R	15uF	±20%	25	FG22X7R1E156MRT0□
X7R	22uF	±20%	25	FG22X7R1E226MRT0□
X7R	2.2uF	±10%	50	FG22X7R1H225KNT0□
X7R	3.3uF	±10%	50	FG22X7R1H335KNT0□
X7R	6.8uF	±10%	50	FG22X7R1H685KRT0□
X7R	1.5uF	±10%	100	FG22X7R2A155KNT0□
X7R	2.2uF	±10%	100	FG22X7R2A225KNT0□
X7R	330nF	±10%	250	FG22X7R2E334KNT0□
X7R	470nF	±10%	250	FG22X7R2E474KNT0□
X7R	100nF	±10%	630	FG22X7R2J104KNT0
X7T	680nF	±10%	250	FG22X7T2E684KNT0□
X7T	1uF	±10%	250	FG22X7T2E105KNT0□

^{*} The part numbers are TDK's standard specification products.

^{**} The " \square " of the Part Number contains the packaging symbol, 0 (Bulk packaging) or 6 (Taping packaging).

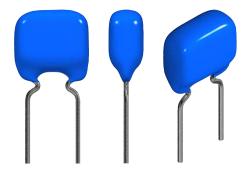
^{**} The " \square " of the Part Number contains the packaging symbol, 0 (Bulk packaging) or 6 (Taping packaging).



FG23 type









FG23 type

■ ELECTRICAL CHARACTERISTICS

CHARACTERISTICS SPECIFICATION TABLE

CLASS 1 (TEMPERATURE COMPENSATION)

Temperature characteristics	Capacitance	Tolerance	Rated voltage Edc (V)	Part No.*
COG	150nF	±5%	100	FG23C0G2A154JNT0 = **
C0G	150nF	±5%	250	FG23C0G2E154JRT0□
COG	100nF	±5%	450	FG23C0G2W104JNT0□
C0G	68nF	±5%	630	FG23C0G2J683JRT0□
COG	100nF	±5%	630	FG23C0G2J104JRT0

^{*} The part numbers are TDK's standard specification products.

Temperature characteristics	Capacitance	Tolerance	Rated voltage Edc (V)	Part No.*
X7R	47µF	±20%	16	FG23X7R1C476MRT0□**
X7R	22µF	±20%	25	FG23X7R1E226MNT0□
X7R	10μF	±10%	50	FG23X7R1H106KRT0□
X7R	3.3µF	±10%	100	FG23X7R2A335KNT0□
X7R	4.7µF	±10%	100	FG23X7R2A475KNT0□
X7R	680nF	±10%	250	FG23X7R2E684KNT0□
X7R	1µF	±10%	250	FG23X7R2E105KNT0□
X7R	150nF	±10%	630	FG23X7R2J154KNT0□
X7R	220nF	±10%	630	FG23X7R2J224KNT0□
X7S	6.8µF	±10%	100	FG23X7S2A685KRT0□
X7S	10μF	±10%	100	FG23X7S2A106KRT0□
X7S	15µF	±20%	100	FG23X7S2A156MRT0□
X7T	1.5µF	±10%	250	FG23X7T2E155KNT0
X7T	2.2µF	±10%	250	FG23X7T2E225KNT0

^{*} The part numbers are TDK's standard specification products.

^{**} The " \square " of the Part Number contains the packaging symbol, 0 (Bulk packaging) or 6 (Taping packaging).

^{**} The " \square " of the Part Number contains the packaging symbol, 0 (Bulk packaging) or 6 (Taping packaging).





Dimensions in mm





■ ELECTRICAL CHARACTERISTICS

CHARACTERISTICS SPECIFICATION TABLE

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Temperature characteristics	Capacitance	Tolerance	Rated voltage Edc (V)	Part No.*
COG	1.0pF	±0.25pF	50	FG18C0G1H010CNT0 = **
C0G	1.5pF	±0.25pF	50	FG18C0G1H1R5CNT0□
C0G	2.0pF	±0.25pF	50	FG18C0G1H020CNT0□
C0G	2.2pF	±0.25pF	50	FG18C0G1H2R2CNT0□
C0G	3.0pF	±0.25pF	50	FG18C0G1H030CNT0□
C0G	3.3pF	±0.25pF	50	FG18C0G1H3R3CNT0□
C0G	4.0pF	±0.25pF	50	FG18C0G1H040CNT0□
C0G	4.7pF	±0.25pF	50	FG18C0G1H4R7CNT0□
C0G	5.0pF	±0.25pF	50	FG18C0G1H050CNT0□
C0G	6.0pF	±0.5pF	50	FG18C0G1H060DNT0□
C0G	6.8pF	±0.5pF	50	FG18C0G1H6R8DNT0□
C0G	7.0pF	±0.5pF	50	FG18C0G1H070DNT0□
C0G	8.0pF	±0.5pF	50	FG18C0G1H080DNT0
C0G	9.0pF	±0.5pF	50	FG18C0G1H090DNT0□
COG	10pF	±0.5pF	50	FG18C0G1H100DNT0
C0G	12pF	±5%	50	FG18C0G1H120JNT0□
C0G	15pF	±5%	50	FG18C0G1H150JNT0
C0G	18pF	±5%	50	FG18C0G1H180JNT0□
C0G	22pF	±5%	50	FG18C0G1H220JNT0□
C0G	27pF	±5%	50	FG18C0G1H270JNT0□
C0G	33pF	±5%	50	FG18C0G1H330JNT0□
C0G	39pF	±5%	50	FG18C0G1H390JNT0□
C0G	47pF	±5%	50	FG18C0G1H470JNT0□
C0G	56pF	±5%	50	FG18C0G1H560JNT0□
C0G	68pF	±5%	50	FG18C0G1H680JNT0□
C0G	82pF	±5%	50	FG18C0G1H820JNT0□
C0G	100pF	±5%	50	FG18C0G1H101JNT0
C0G	120pF	±5%	50	FG18C0G1H121JNT0
C0G	150pF	±5%	50	FG18C0G1H151JNT0
C0G	180pF	±5%	50	FG18C0G1H181JNT0□
C0G	220pF	±5%	50	FG18C0G1H221JNT0
C0G	270pF	±5%	50	FG18C0G1H271JNT0□
C0G	330pF	±5%	50	FG18C0G1H331JNT0
C0G	390pF	±5%	50	FG18C0G1H391JNT0□
C0G	470pF	±5%	50	FG18C0G1H471JNT0
C0G	560pF	±5%	50	FG18C0G1H561JNT0□
C0G	680pF	±5%	50	FG18C0G1H681JNT0
C0G	820pF	±5%	50	FG18C0G1H821JNT0□
C0G	1nF	±5%	50	FG18C0G1H102JNT0
C0G	1.2nF	±5%	50	FG18C0G1H122JNT0□
C0G	1.5nF	±5%	50	FG18C0G1H152JNT0
C0G	1.8nF	±5%	50	FG18C0G1H182JNT0□
C0G	2.2nF	±5%	50	FG18C0G1H222JNT0□
C0G	2.7nF	±5%	50	FG18C0G1H272JNT0□
C0G	3.3nF	±5%	50	FG18C0G1H332JNT0□
C0G	3.9nF	±5%	50	FG18C0G1H392JNT0□
C0G	4.7nF	±5%	50	FG18C0G1H472JNT0□
C0G	5.6nF	±5%	50	FG18C0G1H562JNT0□
C0G	6.8nF	±5%	50	FG18C0G1H682JNT0□
C0G	8.2nF	±5%	50	FG18C0G1H822JNT0□

^{*} The part numbers are TDK's standard specification products.

^{**} The " \square " of the Part Number contains the packaging symbol, 0 (Bulk packaging) or 6 (Taping packaging).



■ ELECTRICAL CHARACTERISTICS

CHARACTERISTICS SPECIFICATION TABLE

Temperature characteristics	Capacitance	Tolerance	Rated voltage Edc (V)	Part No.*
COG	10nF	±5%	50	FG18C0G1H103JNT0 =**
C0G	1.0pF	±0.25pF	100	FG18C0G2A010CNT0
C0G	1.5pF	±0.25pF	100	FG18C0G2A1R5CNT0□
C0G	2.0pF	±0.25pF	100	FG18C0G2A020CNT0
C0G	2.2pF	±0.25pF	100	FG18C0G2A2R2CNT0□
COG	3.0pF	±0.25pF	100	FG18C0G2A030CNT0
C0G	3.3pF	±0.25pF	100	FG18C0G2A3R3CNT0□
C0G	4.0pF	±0.25pF	100	FG18C0G2A040CNT0
COG	4.7pF	±0.25pF	100	FG18C0G2A4R7CNT0□
C0G	5.0pF	±0.25pF	100	FG18C0G2A050CNT0
C0G	6.0pF	±0.5pF	100	FG18C0G2A060DNT0
C0G	6.8pF	±0.5pF	100	FG18C0G2A6R8DNT0
COG	7.0pF	±0.5pF	100	FG18C0G2A070DNT0
COG	8.0pF	±0.5pF	100	FG18C0G2A080DNT0
COG	9.0pF	±0.5pF	100	FG18C0G2A090DNT0
COG	10pF	±0.5pF	100	FG18C0G2A100DNT0
COG	12pF	±5%	100	FG18C0G2A120JNT0
COG	15pF	±5%	100	FG18C0G2A150JNT0
COG	18pF	±5%	100	FG18C0G2A180JNT0
COG	22pF	±5%	100	FG18C0G2A220JNT0
COG	27pF	±5%	100	FG18C0G2A270JNT0
COG	33pF	±5%	100	FG18C0G2A330JNT0
COG	39pF	±5%	100	FG18C0G2A390JNT0
COG	47pF	±5%	100	FG18C0G2A470JNT0
COG	56pF	±5% ±5%	100	FG18C0G2A560JNT0
COG	68pF	±5%	100	FG18C0G2A680JNT0
COG	82pF	±5%	100	FG18C0G2A820JNT0
COG	100pF	±5%	100	FG18C0G2A101JNT0
COG	120pF	±5%	100	
COG	150pF	±5% ±5%	100	FG18C0G2A151 INTO
COG	180pF		100	FG18C0G2A151JNT0
COG	220pF	±5% ±5%	100	FG18C0G2A181JNT0
COG	270pF		100	FG18C0G2A221JNT0
COG	330pF	±5%	100	FG18C0G2A271JNT0
COG	390pF	±5%	100	FG18C0G2A331JNT0
COG	470pF	±5%	100	FG18C0G2A391JNT0
	•	±5%		FG18C0G2A471JNT0
C0G	560pF	±5%	100	FG18C0G2A561JNT0
C0G C0G	680pF	±5%	100	FG18C0G2A681JNT0
	820pF	±5%	100	FG18C0G2A821JNT0
C0G	1nF	±5%	100	FG18C0G2A102JNT0
COG	1.2nF	±5%	100	FG18C0G2A122JNT0
COG	1.5nF	±5%	100	FG18C0G2A152JNT0
C0G	1.8nF	±5%	100	FG18C0G2A182JNT0
COG	2.2nF	±5%	100	FG18C0G2A222JNT0
COG	2.7nF	±5%	100	FG18C0G2A272JNT0
COG	3.3nF	±5%	100	FG18C0G2A332JNT0
C0G	3.9nF	±5%	100	FG18C0G2A392JRT0
COG	4.7nF	±5%	100	FG18C0G2A472JRT0□
COG	5.6nF	±5%	100	FG18C0G2A562JRT0
COG	6.8nF	±5%	100	FG18C0G2A682JRT0
COG	8.2nF	±5%	100	FG18C0G2A822JRT0
C0G	10nF	±5%	100	FG18C0G2A103JRT0□

^{*} The part numbers are TDK's standard specification products.

^{**} The " - " of the Part Number contains the packaging symbol, 0 (Bulk packaging) or 6 (Taping packaging).



■ ELECTRICAL CHARACTERISTICS

CHARACTERISTICS SPECIFICATION TABLE

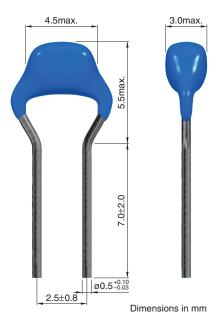
Temperature characteristics	Capacitance	Tolerance	Rated voltage Edc (V)	Part No.*
X5R	1.5uF	±10%	25	FG18X5R1E155KRT0 = **
X5R	2.2uF	±10%	25	FG18X5R1E225KRT0□
X5R	3.3uF	±10%	25	FG18X5R1E335KRT0□
X5R	4.7uF	±10%	25	FG18X5R1E475KRT0□
X5R	6.8uF	±10%	25	FG18X5R1E685KRT0□
X5R	10uF	±20%	25	FG18X5R1E106MRT0□
X5R	680nF	±10%	50	FG18X5R1H684KRT0□
X5R	1uF	±10%	50	FG18X5R1H105KRT0□
X7R	1.5uF	±10%	10	FG18X7R1A155KRT0□
X7R	2.2uF	±10%	10	FG18X7R1A225KRT0□
X7R	150nF	±10%	25	FG18X7R1E154KNT0□
X7R	680nF	±10%	25	FG18X7R1E684KRT0□
X7R	1uF	±10%	25	FG18X7R1E105KRT0□
X7R	1nF	±10%	50	FG18X7R1H102KNT0□
X7R	1.5nF	±10%	50	FG18X7R1H152KNT0□
X7R	2.2nF	±10%	50	FG18X7R1H222KNT0□
X7R	3.3nF	±10%	50	FG18X7R1H332KNT0□
X7R	4.7nF	±10%	50	FG18X7R1H472KNT0□
X7R	6.8nF	±10%	50	FG18X7R1H682KNT0□
X7R	10nF	±10%	50	FG18X7R1H103KNT0□
X7R	15nF	±10%	50	FG18X7R1H153KNT0□
X7R	22nF	±10%	50	FG18X7R1H223KNT0□
X7R	33nF	±10%	50	FG18X7R1H333KNT0□
X7R	47nF	±10%	50	FG18X7R1H473KNT0□
X7R	68nF	±10%	50	FG18X7R1H683KNT0□
X7R	100nF	±10%	50	FG18X7R1H104KNT0□
X7R	150nF	±10%	50	FG18X7R1H154KRT0□
X7R	220nF	±10%	50	FG18X7R1H224KRT0□
X7R	330nF	±10%	50	FG18X7R1H334KRT0□
X7R	470nF	±10%	50	FG18X7R1H474KRT0□
X7R	1nF	±10%	100	FG18X7R2A102KNT0□
X7R	1.5nF	±10%	100	FG18X7R2A152KNT0□
X7R	2.2nF	±10%	100	FG18X7R2A222KNT0□
X7R	3.3nF	±10%	100	FG18X7R2A332KNT0□
X7R	4.7nF	±10%	100	FG18X7R2A472KNT0□
X7R	6.8nF	±10%	100	FG18X7R2A682KNT0□
X7R	10nF	±10%	100	FG18X7R2A103KNT0□
X7R	15nF	±10%	100	FG18X7R2A153KNT0□
X7R	22nF	±10%	100	FG18X7R2A223KNT0□
X7S	33nF	±10%	100	FG18X7S2A333KRT0□
X7S	47nF	±10%	100	FG18X7S2A473KRT0□
X7S	68nF	±10%	100	FG18X7S2A683KRT0□
X7S	100nF	±10%	100	FG18X7S2A104KRT0□

^{*} The part numbers are TDK's standard specification products.

^{**} The " \square " of the Part Number contains the packaging symbol, 0 (Bulk packaging) or 6 (Taping packaging).



FG14 type







FG14 type

■ ELECTRICAL CHARACTERISTICS

CHARACTERISTICS SPECIFICATION TABLE

CLASS 1 (TEMPERATURE COMPENSATION)

Temperature characteristics	Capacitance	Tolerance	Rated voltage Edc (V)	Part No.*
C0G	15nF	±5%	50	FG14C0G1H153JNT0□**
C0G	22nF	±5%	50	FG14C0G1H223JNT0□
COG	33nF	±5%	50	FG14C0G1H333JNT0□
C0G	3.9nF	±5%	100	FG14C0G2A392JNT0□
C0G	4.7nF	±5%	100	FG14C0G2A472JNT0□
C0G	5.6nF	±5%	100	FG14C0G2A562JNT0□
COG	6.8nF	±5%	100	FG14C0G2A682JNT0□
C0G	8.2nF	±5%	100	FG14C0G2A822JNT0□
COG	10nF	±5%	100	FG14C0G2A103JNT0□
C0G	15nF	±5%	100	FG14C0G2A153JRT0□
C0G	22nF	±5%	100	FG14C0G2A223JRT0□
C0G	33nF	±5%	100	FG14C0G2A333JRT0□

^{*} The part numbers are TDK's standard specification products.

Temperature characteristics	Capacitance	Tolerance	Rated voltage Edc (V)	Part No.*
X5R	15uF	±20%	25	FG14X5R1E156MRT0□**
X5R	3.3uF	±10%	50	FG14X5R1H335KRT0□
X5R	4.7uF	±10%	50	FG14X5R1H475KRT0□
X7R	6.8uF	±10%	10	FG14X7R1A685KRT0□
X7R	10uF	±10%	10	FG14X7R1A106KRT0□
X7R	680nF	±10%	16	FG14X7R1C684KNT0□
X7R	470nF	±10%	25	FG14X7R1E474KNT0□
X7R	3.3uF	±10%	25	FG14X7R1E335KRT0□
X7R	4.7uF	±10%	25	FG14X7R1E475KRT0□
X7R	150nF	±10%	50	FG14X7R1H154KNT0□
X7R	220nF	±10%	50	FG14X7R1H224KNT0□
X7R	330nF	±10%	50	FG14X7R1H334KNT0□
X7R	680nF	±10%	50	FG14X7R1H684KRT0□
X7R	1uF	±10%	50	FG14X7R1H105KRT0□
X7R	1.5uF	±10%	50	FG14X7R1H155KRT0□
X7R	2.2uF	±10%	50	FG14X7R1H225KRT0□
X7R	33nF	±10%	100	FG14X7R2A333KNT0□
X7R	47nF	±10%	100	FG14X7R2A473KNT0□
X7R	68nF	±10%	100	FG14X7R2A683KNT0□
X7R	100nF	±10%	100	FG14X7R2A104KNT0□
X7S	150nF	±10%	100	FG14X7S2A154KRT0□
X7S	220nF	±10%	100	FG14X7S2A224KRT0□
X7S	330nF	±10%	100	FG14X7S2A334KRT0□
X7S	470nF	±10%	100	FG14X7S2A474KRT0□
X7S	680nF	±10%	100	FG14X7S2A684KRT0□
X7S	1uF	±10%	100	FG14X7S2A105KRT0□

^{*} The part numbers are TDK's standard specification products.

^{**} The " \square " of the Part Number contains the packaging symbol, 0 (Bulk packaging) or 6 (Taping packaging).

^{**} The " \square " of the Part Number contains the packaging symbol, 0 (Bulk packaging) or 6 (Taping packaging).



FG16 type







FG16 type

■ ELECTRICAL CHARACTERISTICS

CHARACTERISTICS SPECIFICATION TABLE

CLASS 1 (TEMPERATURE COMPENSATION)

Temperature characteristics	Capacitance	Tolerance	Rated voltage Edc (V)	Part No.*
COG	47nF	±5%	50	FG16C0G1H473JNT0□**
C0G	68nF	±5%	50	FG16C0G1H683JNT0
C0G	100nF	±5%	50	FG16C0G1H104JNT0
C0G	15nF	±5%	100	FG16C0G2A153JNT0□
C0G	22nF	±5%	100	FG16C0G2A223JNT0
C0G	33nF	±5%	100	FG16C0G2A333JNT0□
C0G	47nF	±5%	100	FG16C0G2A473JRT0□
C0G	68nF	±5%	100	FG16C0G2A683JRT0□
C0G	100nF	±5%	100	FG16C0G2A104JRT0□

^{*} The part numbers are TDK's standard specification products.

Temperature characteristics	Capacitance	Tolerance	Rated voltage Edc (V)	Part No.*
X5R	33uF	±20%	25	FG16X5R1E336MRT0 = **
X5R	6.8uF	±10%	50	FG16X5R1H685KRT0□
X5R	10uF	±10%	50	FG16X5R1H106KRT0□
X7R	1uF	±10%	25	FG16X7R1E105KNT0□
X7R	1.5uF	±10%	25	FG16X7R1E155KNT0□
X7R	2.2uF	±10%	25	FG16X7R1E225KNT0□
X7R	6.8uF	±10%	25	FG16X7R1E685KRT0□
X7R	10uF	±10%	25	FG16X7R1E106KRT0□
X7R	470nF	±10%	50	FG16X7R1H474KNT0□
X7R	680nF	±10%	50	FG16X7R1H684KNT0□
X7R	3.3uF	±10%	50	FG16X7R1H335KRT0□
X7R	4.7uF	±10%	50	FG16X7R1H475KRT0□
X7R	150nF	±10%	100	FG16X7R2A154KNT0□
X7R	220nF	±10%	100	FG16X7R2A224KNT0□
X7R	330nF	±10%	100	FG16X7R2A334KNT0□
X7R	470nF	±10%	100	FG16X7R2A474KNT0□
X7R	680nF	±10%	100	FG16X7R2A684KNT0□
X7R	1uF	±10%	100	FG16X7R2A105KNT0□
X7S	1.5uF	±10%	100	FG16X7S2A155KRT0□
X7S	2.2uF	±10%	100	FG16X7S2A225KRT0□
X7S	3.3uF	±10%	100	FG16X7S2A335KRT0□

^{*} The part numbers are TDK's standard specification products.

^{**} The " \square " of the Part Number contains the packaging symbol, 0 (Bulk packaging) or 6 (Taping packaging).

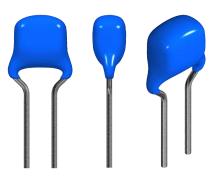
^{**} The " \square " of the Part Number contains the packaging symbol, 0 (Bulk packaging) or 6 (Taping packaging).



FG11 type









FG11 type

■ ELECTRICAL CHARACTERISTICS

CHARACTERISTICS SPECIFICATION TABLE

CLASS 1 (TEMPERATURE COMPENSATION)

Temperature characteristics	Capacitance	Tolerance	Rated voltage Edc (V)	Part No.*
C0G	47nF	±5%	100	FG11C0G2A473JNT0□**
C0G	68nF	±5%	100	FG11C0G2A683JNT0□

^{*} The part numbers are TDK's standard specification products.

Temperature characteristics	Capacitance	Tolerance	Rated voltage Edc (V)	Part No.*
X5R	68uF	±20%	6.3	FG11X5R0J686MRT0□**
X5R	100uF	±20%	6.3	FG11X5R0J107MRT0□
X7R	15uF	±20%	16	FG11X7R1C156MRT0□
X7R	22uF	±20%	16	FG11X7R1C226MRT0□
X7R	3.3uF	±10%	25	FG11X7R1E335KNT0□
X7R	4.7uF	±10%	25	FG11X7R1E475KNT0□
X7R	1uF	±10%	50	FG11X7R1H105KNT0□
X7R	1.5uF	±10%	50	FG11X7R1H155KNT0□
X7R	10uF	±10%	50	FG11X7R1H106KRT0□
X7R	1.5uF	±10%	100	FG11X7R2A155KRT0□
X7R	2.2uF	±10%	100	FG11X7R2A225KRT0□
X7S	6.8uF	±10%	50	FG11X7S1H685KRT0□
X7S	10uF	±10%	50	FG11X7S1H106KRT0□
X7S	4.7uF	±10%	100	FG11X7S2A475KRT0□

^{*} The part numbers are TDK's standard specification products.

^{**} The " \square " of the Part Number contains the packaging symbol, 0 (Bulk packaging) or 6 (Taping packaging).

^{**} The " \square " of the Part Number contains the packaging symbol, 0 (Bulk packaging) or 6 (Taping packaging).

Packaging style

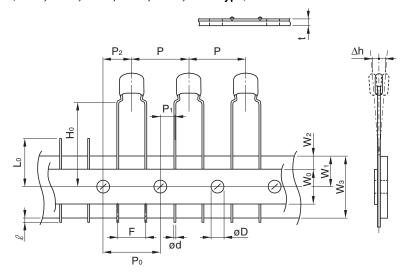
TAPING DIMENSIONS

□Lead pitch 5.0mm

Lead pitch 2.5mm

(FG18, FG14, FG16, FG11 type)

(FG28, FG24, FG26, FG20, FG22, FG23 type)



Symbol	Dimensions (mm)
P	12.7±1.0
Po*1	12.7±0.3
P ₁	3.85±0.7
P ₂	6.35±1.3
W ₀	12.0±1.0
W ₁	9.0±0.5
W2*2	3.0max.
Wз	18.0+1.0, -0.5
H ₀	16.0±0.5
l t	1.0max.
t	0.6±0.2
Lo*3	11.0max.
F	5.0+0.8, -0.2
ød	ø0.5+0.1, −0.03
øD	ø4.0±0.2
Δh	0±2
*1 Accumu	lated pitch tolorance shall be

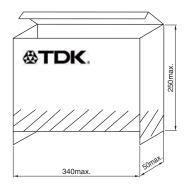
- $^{*1}\,\mbox{Accumulated}$ pitch tolerance shall be $\pm 2\mbox{mm}$ for 20 pitches.
- *2 Adhesive tape shall not stick out from carrier tape.
- *3 The number of consecutive gaps in the product shall be three or less.

5		+
P ₂ P	P	Δh
F ød	øD	

Symbol	Dimensions (mm)	
P	12.7±1.0	
P ₀ *1	12.7±0.3	
P ₁	5.1±0.7	
P ₂	6.35±1.3	
Wo	12.0±1.0	
W ₁	9.0±0.5	
W2*2	3.0max.	
Wз	18.0+1.0, -0.5	
H ₀	16.0±0.5	
l	1.0max.	
$\frac{\ell}{t}$	0.6±0.2	
Lo*3	11.0max.	
F	2.5+0.5, -0.2	
ød	ø0.5+0.1, -0.03	
øD	ø4.0±0.2	
Δh	0±2	

- *1 Accumulated pitch tolerance shall be ±2mm for 20 pitches.
- *2 Adhesive tape shall not stick out from carrier tape.
- *3 The number of consecutive gaps in the product shall be three or less.

■ AMMO PACK INNER BOX SIZE



Dimensions in mm

Mease be sure to request delivery specifications that provide further details on the features and specifications of the products for proper and safe use. Please note that the contents may change without any prior notice due to reasons such as upgrading.

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