





CGJ Series High Reliability Grade General (Up to 50V)

Type: CGJ2 [EIA CC0402]

CGJ3 [EIA CC0603] CGJ4 [EIA CC0805] CGJ5 [EIA CC1206] CGJ6 [EIA CC1210]

REMINDERS

Please read before using this product

SAFETY REMINDERS

REMINDERS

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Notice: Effective January 2013, TDK will use a new catalog number which adds product thickness and packaging specification detail. This new catalog number should be referenced on all catalog orders going forward, and is not applicable for OEM part number orders. Please be aware the last five digits of the catalog number will differ from the item description (internal control number) on the product label. Contact your local TDK Sales representative for more information.

(Example)

Catalog Issued date	Catalog Number	Item Description (On Delivery Label)
Prior to January 2013	C1608C0G1E103J(080AA)	C1608C0G1E103JT000N
January 2013 and Later	C1608C0G1E103J080AA	C1608C0G1E103JT000N

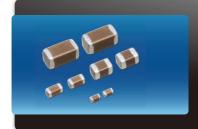












CGJ Series General (Up to 50V)

Type: CGJ2 [EIA CC0402], CGJ3 [EIA CC0603], CGJ4 [EIA CC0805], CGJ5 [EIA CC1206], CGJ6 [EIA CC1210]

Features

- · Highly reliable products with long lifespans.
- · Reliability tests based on AEC-Q200 requirements.
- · Guaranteed TC Bias.
- UHF (Ultra High Frequency) RFID tag to allow integration with customer RFID programs such as inventory management is available by option.
- Tamper proof seal to assist in the identification of authentic TDK CGJ
- CGJ customer priority backed by TDK factory support.

Applications

- · Smart Meter, Smart Grid, LED Lighting
- Industrial Application, Telecom Base Station
- Solar Micro-inverters, Charging station
- · Military Communication Equipment
- Class 1 & 2 Medical Equipment
- · Applications that require extended life performance





L	Body Length
W	Body Width
Т	Body Height
В	Terminal Width
G	Terminal Spacing

GJ•5•L•2•X7R•1A•106•K•160•A•A **Catalog Number** Construction Series Name • Dimensions L x W (mm) Code Width Length 1.00 ± 0.05 0.50 ± 0.05 1.60 ± 0.10 0.80 ± 0.10 0.20 min 2.00 ± 0.20 1.25 ± 0.20 0.20 min. 3.20 ± 0.20 1.60 ± 0.20 0.20 min. 3.20 ± 0.40 2.50 ± 0.30 * Standard dimensions Thickness T Code (mm) Voltage Condition **Thickness** Code 0.50 mm for Life Test 0.60 mm Symbol Condition 0.80 mm 1 × R.V. 0.85 mm 1.15 mm 1.2<u>5 mm</u> 1.5 × R.V 1.2 × R.V. 1.60 mm 2.00 mm .30 mm 2.50 mm Temperature Characteristics Temperature Temperature Coefficient or Temperature Capacitance Change Range 0±30 ppm/°C -55 to +125°C X7R Rated Voltage (DC) Nominal Capacitance (pF) Code Voltage (DC) The capacitance is expressed in three digit codes and in units of pico OJ 6.3V Farads (pF). The first and second digits identify the first and second significant figures of the capacitance. The third digit identifies the 10V multiplier. R designates a decimal point. 1E 25V Ex. 0R2 = 0.2pF; 103 = 10,000pF; 105 = 1,000,000pF = 1,000nF = 1µF1H 50V Capacitance Tolerance **Nominal Thickness** Code Tolerance Code Thickness **Packaging Style** ± 0.25 pF 0.50 mm D ± 0.5 pF Code Style 0.60 mm 060 178 mm Reel. 4 mm Pitch 0.80 mm 0.85 mm ± 10% 178 mm Reel, 2 mm Pitch 1.15 mm 1.25 mm 1.60 mm Special Reserved Code Code Description 160 2.00 mm 2.30 mm 2.50 mm A to C TDK Internal Code

🗥 Please 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.

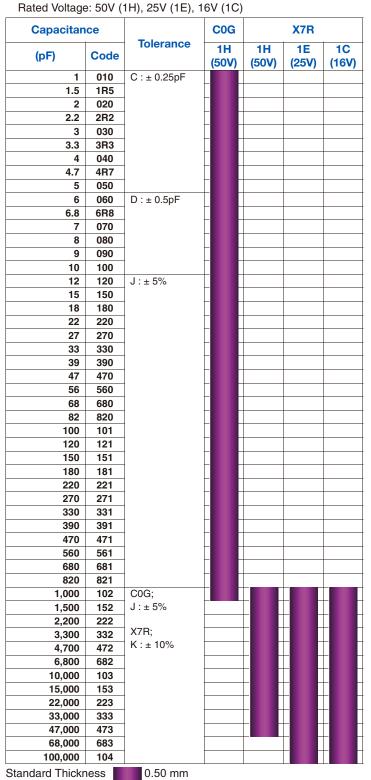


Capacitance Range Chart

CGJ2(1005) [EIA CC0402]

Capacitance Range Chart

Temperature Characteristics: COG (0 \pm 30ppm/°C), X7R (\pm 15%)



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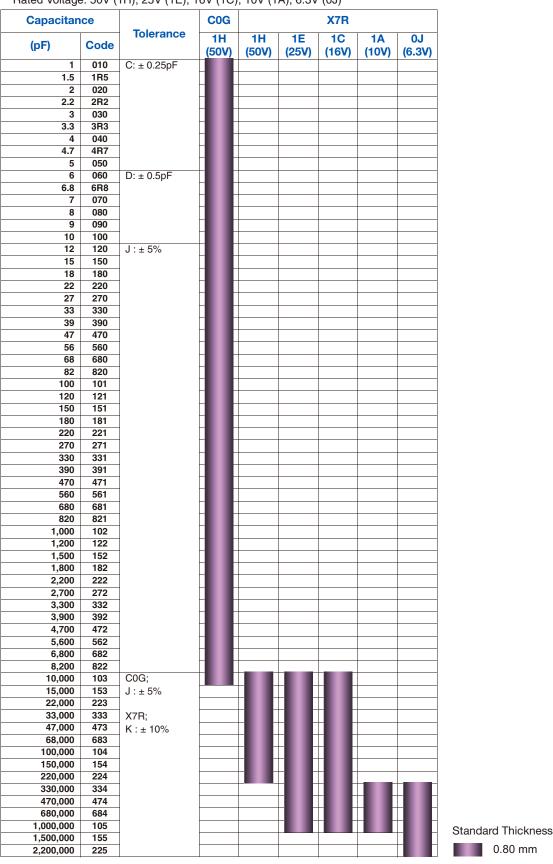


Capacitance Range Chart

CGJ3(1608) [EIA CC0603]

Capacitance Range Chart

Temperature Characteristics: C0G (0 \pm 30ppm/°C), X7R (\pm 15%) Rated Voltage: 50V (1H), 25V (1E), 16V (1C), 10V (1A), 6.3V (0J)



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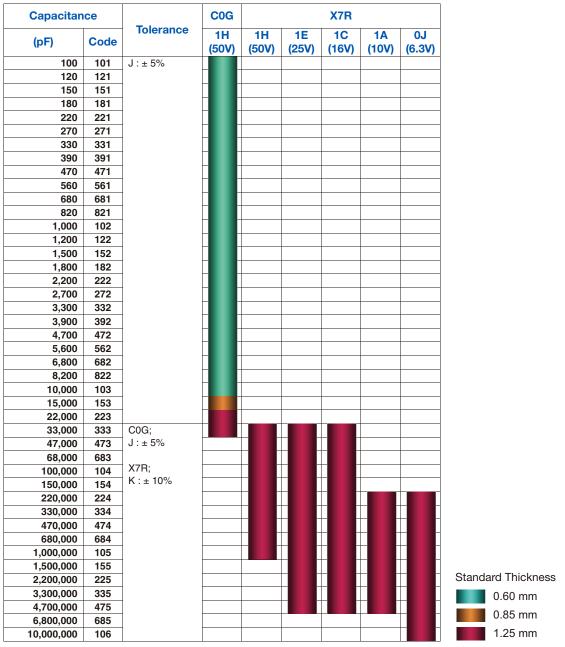


Capacitance Range Chart

CGJ4(2012) [EIA CC0805]

Capacitance Range Chart

Temperature Characteristics: C0G (0 \pm 30ppm/°C), X7R (\pm 15%) Rated Voltage: 50V (1H), 25V (1E), 16V (1C), 10V (1A), 6.3V (0J)



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Capacitance Range Chart

CGJ5(3216) [EIA CC1206]

Capacitance Range Chart

Temperature Characteristics: C0G (0 \pm 30ppm/°C), X7R (\pm 15%) Rated Voltage: 50V (1H), 25V (1E), 16V (1C), 10V (1A), 6.3V (0J)

Capacitan	ice		COG			X7R			
(pF)	Code	Tolerance	1H (50V)	1H (50V)	1E (25V)	1C (16V)	1A (10V)	0J (6.3V)	
3,900	392	J: ± 5%							
4,700	472								
5,600	562								
6,800	682								
8,200	822								
10,000	103								
15,000	153								
22,000	223								
33,000	333								
47,000	473								
68,000	683		-						
100,000	104								
470,000	474	K: ± 10%		-					
680,000	684								
1,000,000	105				-				Standard Thickness
1,500,000	155			-		-	-	-	
2,200,000	225				-	-		-	0.60 mm
3,300,000	335								0.85 mm
4,700,000	475								1.15 mm
6,800,000	685							_	
10,000,000	106								1.60 mm

Capacitance Range Chart

CGJ6(3225) [EIA CC1210]

Capacitance Range Chart

Temperature Characteristics: X7R (±15%), X7S (±22%)

Rated Voltage: 50V (1H), 25V (1E), 16V (1C)

Capacitan	Capacitance		X7R			X7S	
(pF)	Code	Tolerance	1H (50V)	1E (25V)	1C (16V)	1H (50V)	Standard Thickness
1,000,000	105	K: ± 10%					1.60 mm
1,500,000	155						2.00 mm
4,700,000	475						2.30 mm
6,800,000	685						2.30 11111
10,000,000	106						2.50 mm



Capacitance Range Table

Class 1 (Temperature Compensating)

Temperature Characteristics: C0G(-55 to +125 $^{\circ}$ C, 0 ± 30 ppm/ $^{\circ}$ C)

		This large	•	Catalog Number
Capacitance	Size	Thickness (mm)	Capacitance _ Tolerance	Rated Voltage Edc: 50V
	1005	0.50 ± 0.05	± 0.25pF	CGJ2B2C0G1H010C050BA
1 pF -	1608	0.80 ± 0.03	± 0.25pF ± 0.25pF	CGJ3E2C0G1H010C080AA
	1005	0.50 ± 0.05	± 0.25pF	CGJ2B2C0G1H1R5C050BA
1.5 pF -	1608	0.80 ± 0.10	± 0.25pF	CGJ3E2C0G1H1R5C080AA
	1005	0.50 ± 0.10	± 0.25pF	CGJ2B2C0G1H020C050BA
2 pF -	1608	0.80 ± 0.00	± 0.25pF	CGJ3E2C0G1H020C080AA
	1005	0.50 ± 0.10	± 0.25pF	CGJ2B2C0G1H2R2C050BA
2.2 pF -	1608	0.80 ± 0.10	± 0.25pF ± 0.25pF	CGJ3E2C0G1H2R2C080AA
	1005	0.50 ± 0.10	± 0.25pF	CGJ2B2C0G1H030C050BA
3 pF -	1608	0.80 ± 0.10	± 0.25pF	CGJ3E2C0G1H030C080AA
	1005	0.50 ± 0.10	± 0.25pf	CGJ2B2C0G1H3R3C050BA
3.3 pF -	1608	0.80 ± 0.10	± 0.25pF ± 0.25pF	CGJ3E2C0G1H3R3C080AA
	1005	0.50 ± 0.10	± 0.25pF	CGJ2B2C0G1H040C050BA
4 pF -				CGJ3E2C0G1H040C080AA
	1608	0.80 ± 0.10 0.50 ± 0.05	± 0.25pF	
4.7 pF -	1005		± 0.25pF	CGJ2B2C0G1H4R7C050BA
	1608	0.80 ± 0.10	± 0.25pF	CGJ3E2C0G1H4R7C080AA
5 pF -	1005	0.50 ± 0.05	± 0.25pF	CGJ2B2C0G1H050C050BA
	1608	0.80 ± 0.10	± 0.25pF	CGJ3E2C0G1H050C080AA
6 pF -	1005	0.50 ± 0.05	± 0.5pF	CGJ2B2C0G1H060D050BA
	1608	0.80 ± 0.10	± 0.5pF	CGJ3E2C0G1H060D080AA
6.8 pF -	1005	0.50 ± 0.05	± 0.5pF	CGJ2B2C0G1H6R8D050BA
	1608	0.80 ± 0.10	± 0.5pF	CGJ3E2C0G1H6R8D080AA
7 pF -	1005	0.50 ± 0.05	± 0.5pF	CGJ2B2C0G1H070D050BA
	1608	0.80 ± 0.10	± 0.5pF	CGJ3E2C0G1H070D080AA
8 pF -	1005	0.50 ± 0.05	± 0.5pF	CGJ2B2C0G1H080D050BA
	1608	0.80 ± 0.10	± 0.5pF	CGJ3E2C0G1H080D080AA
9 pF -	1005	0.50 ± 0.05	± 0.5pF	CGJ2B2C0G1H090D050BA
	1608	0.80 ± 0.10	± 0.5pF	CGJ3E2C0G1H090D080AA
10 pF -	1005	0.50 ± 0.05	± 0.5pF	CGJ2B2C0G1H100D050BA
	1608	0.80 ± 0.10	± 0.5pF	CGJ3E2C0G1H100D080AA
12 pF -	1005	0.50 ± 0.05	± 5pF	CGJ2B2C0G1H120J050BA
	1608	0.80 ± 0.10	± 5pF	CGJ3E2C0G1H120J080AA
15 pF -	1005	0.50 ± 0.05	± 5pF	CGJ2B2C0G1H150J050BA
	1608	0.80 ± 0.10	± 5pF	CGJ3E2C0G1H150J080AA CGJ2B2C0G1H180J050BA
18 pF -	1005	0.50 ± 0.05 0.80 ± 0.10	± 5pF ± 5pF	CGJ3E2C0G1H180J080AA
	1608			CGJ2B2C0G1H180J080AA
22 pF -	1005 1608	0.50 ± 0.05 0.80 ± 0.10	± 5pF	CGJ3E2C0G1H220J080AA
	1005		± 5pF	
27 pF -	1608	0.50 ± 0.05 0.80 ± 0.10	± 5pF ± 5pF	CGJ2B2C0G1H270J050BA CGJ3E2C0G1H270J080AA
	1005			CGJ2B2C0G1H270J080AA CGJ2B2C0G1H330J050BA
33 pF -	1608	0.50 ± 0.05 0.80 ± 0.10	± 5pF ± 5pF	CGJ3E2C0G1H330J080AA
-	1005	0.50 ± 0.10	± 5pF ± 5pF	CGJ2B2C0G1H390J050BA
39 pF -				CGJ3E2C0G1H390J080AA
-	1608	0.80 ± 0.10	± 5pF	
47 pF -	1005	0.50 ± 0.05	± 5pF	CGJ2B2C0G1H470J050BA CGJ3E2C0G1H470J080AA
-		0.80 ± 0.10	± 5pF	
56 pF -	1005	0.50 ± 0.05	± 5pF	CGJ2B2C0G1H560J050BA CGJ3E2C0G1H560J080AA
	1608	0.80 ± 0.10	± 5pF ± 5pF	
68 pF -	1005	0.50 ± 0.05		CGJ2B2C0G1H680J050BA
	1608	0.80 ± 0.10	± 5pF	CGJ3E2C0G1H680J080AA
82 pF -	1005	0.50 ± 0.05	± 5pF	CGJ2B2C0G1H820J050BA
	1608	0.80 ± 0.10	± 5pF	CGJ3E2C0G1H820J080AA
100 55	1005	0.50 ± 0.05	± 5%	CGJ2B2C0G1H101J050BA
100 pF	1608	0.80 ± 0.10	± 5%	CGJ3E2C0G1H101J080AA
	2012	0.60 ± 0.15	± 5%	CGJ4C2C0G1H101J060AA
120 55	1005	0.50 ± 0.05	± 5%	CGJ2B2C0G1H121J050BA
120 pF	1608	0.80 ± 0.10	± 5%	CGJ3E2C0G1H121J080AA
	2012	0.60 ± 0.15	± 5%	CGJ4C2C0G1H121J060AA
150 pF	1005	0.50 ± 0.05	± 5%	CGJ2B2C0G1H151J050BA
190 ht	1608	0.80 ± 0.10	± 5%	CGJ3E2C0G1H151J080AA
	2012	0.60 ± 0.15	± 5%	CGJ4C2C0G1H151J060AA

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Capacitance Range Table

Class 1 (Temperature Compensating)

Temperature Characteristics: C0G(-55 to +125°C, 0 ± 30 ppm/°C)

rempera	luie Gilai			25 C, U ± 30 ppin/ C)
Capacitance	Size	Thickness	Capacitance _	Catalog Number
		(mm)	Tolerance	Rated Voltage Edc: 50V
180 pF	1005	0.50 ± 0.05	± 5%	CGJ2B2C0G1H181J050BA
	1608	0.80 ± 0.10	± 5%	CGJ3E2C0G1H181J080AA
	2012	0.60 ± 0.15	± 5%	CGJ4C2C0G1H181J060AA
	1005	0.50 ± 0.05	± 5%	CGJ2B2C0G1H221J050BA
220 pF	1608	0.80 ± 0.10	± 5%	CGJ3E2C0G1H221J080AA
	2012	0.60 ± 0.15	± 5%	CGJ4C2C0G1H221J060AA
	1005	0.50 ± 0.05	± 5%	CGJ2B2C0G1H271J050BA
270 pF	1608	0.80 ± 0.10	± 5%	CGJ3E2C0G1H271J080AA
	2012	0.60 ± 0.15	± 5%	CGJ4C2C0G1H271J060AA
	1005	0.50 ± 0.05	± 5%	CGJ2B2C0G1H331J050BA
330 pF	1608	0.80 ± 0.10	± 5%	CGJ3E2C0G1H331J080AA
	2012	0.60 ± 0.15	± 5%	CGJ4C2C0G1H331J060AA
	1005	0.50 ± 0.05	± 5%	CGJ2B2C0G1H391J050BA
390 pF	1608	0.80 ± 0.10	± 5%	CGJ3E2C0G1H391J080AA
	2012	0.60 ± 0.15	± 5%	CGJ4C2C0G1H391J060AA
	1005	0.50 ± 0.05	± 5%	CGJ2B2C0G1H471J050BA
470 pF	1608	0.80 ± 0.10	± 5%	CGJ3E2C0G1H471J080AA
	2012	0.60 ± 0.15	± 5%	CGJ4C2C0G1H471J060AA
_	1005	0.50 ± 0.05	± 5%	CGJ2B2C0G1H561J050BA
560 pF	1608	0.80 ± 0.10	± 5%	CGJ3E2C0G1H561J080AA
	2012	0.60 ± 0.15	± 5%	CGJ4C2C0G1H561J060AA
	1005	0.50 ± 0.05	± 5%	CGJ2B2C0G1H681J050BA
680 pF	1608	0.80 ± 0.10	± 5%	CGJ3E2C0G1H681J080AA
	2012	0.60 ± 0.15	± 5%	CGJ4C2C0G1H681J060AA
_	1005	0.50 ± 0.05	± 5%	CGJ2B2C0G1H821J050BA
820 pF	1608	0.80 ± 0.10	± 5%	CGJ3E2C0G1H821J080AA
	2012	0.60 ± 0.15	± 5%	CGJ4C2C0G1H821J060AA
_	1005	0.50 ± 0.05	± 5%	CGJ2B2C0G1H102J050BA
1 nF	1608	0.80 ± 0.10	± 5%	CGJ3E2C0G1H102J080AA
	2012	0.60 ± 0.15	± 5%	CGJ4C2C0G1H102J060AA
1.2 nF -	1608	0.80 ± 0.10	± 5%	CGJ3E2C0G1H122J080AA
	2012	0.60 ± 0.15	± 5%	CGJ4C2C0G1H122J060AA
1.5 nF -	1608	0.80 ± 0.10	± 5%	CGJ3E2C0G1H152J080AA
1.0111	2012	0.60 ± 0.15	± 5%	CGJ4C2C0G1H152J060AA
1.8 nF -	1608	0.80 ± 0.10	± 5%	CGJ3E2C0G1H182J080AA
	2012	0.60 ± 0.15	± 5%	CGJ4C2C0G1H182J060AA
2.2 nF -	1608	0.80 ± 0.10	± 5%	CGJ3E2C0G1H222J080AA
	2012	0.60 ± 0.15	± 5%	CGJ4C2C0G1H222J060AA
2.7 nF -	1608	0.80 ± 0.10	± 5%	CGJ3E2C0G1H272J080AA
	2012	0.60 ± 0.15	± 5%	CGJ4C2C0G1H272J060AA
3.3 nF -	1608	0.80 ± 0.10	± 5%	CGJ3E2C0G1H332J080AA
0.0111	2012	0.60 ± 0.15	± 5%	CGJ4C2C0G1H332J060AA
_	1608	0.80 ± 0.10	± 5%	CGJ3E2C0G1H392J080AA
3.9 nF	2012	0.60 ± 0.15	± 5%	CGJ4C2C0G1H392J060AA
	3216	0.60 ± 0.15	± 5%	CGJ5C2C0G1H392J060AA
_	1608	0.80 ± 0.10	± 5%	CGJ3E2C0G1H472J080AA
4.7 nF	2012	0.60 ± 0.15	± 5%	CGJ4C2C0G1H472J060AA
	3216	0.60 ± 0.15	± 5%	CGJ5C2C0G1H472J060AA
	1608	0.80 ± 0.10	± 5%	CGJ3E2C0G1H562J080AA
5.6 nF	2012	0.60 ± 0.15	± 5%	CGJ4C2C0G1H562J060AA
	3216	0.60 ± 0.15	± 5%	CGJ5C2C0G1H562J060AA
	1608	0.80 ± 0.10	± 5%	CGJ3E2C0G1H682J080AA
6.8 nF	2012	0.60 ± 0.15	± 5%	CGJ4C2C0G1H682J060AA
_	3216	0.60 ± 0.15	± 5%	CGJ5C2C0G1H682J060AA
	1608	0.80 ± 0.10	± 5%	CGJ3E2C0G1H822J080AA
8.2 nF	2012	0.60 ± 0.15	± 5%	CGJ4C2C0G1H822J060AA
_	3216	0.60 ± 0.15	± 5%	CGJ5C2C0G1H822J060AA
-	1608	0.80 ± 0.10	± 5%	CGJ3E2C0G1H103J080AA
10 nF	2012	0.60 ± 0.15	± 5%	CGJ4C2C0G1H103J060AA
_	3216	0.60 ± 0.15	± 5%	CGJ5C2C0G1H103J060AA
-				

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Capacitance Range Table

Class 1 (Temperature Compensating)

Temperature Characteristics: C0G(-55 to +125 $^{\circ}$ C, 0 ± 30 ppm/ $^{\circ}$ C)

Consoitones	Size	Thickness	Capacitance	Catalog Number
Capacitance	Size	(mm)	Tolerance	Rated Voltage Edc: 50V
15 nF -	2012	0.85 ± 0.15	± 5%	CGJ4F2C0G1H153J085AA
15111	3216	0.60 ± 0.15	± 5%	CGJ5C2C0G1H153J060AA
22 nF -	2012	1.25 ± 0.20	± 5%	CGJ4J2C0G1H223J125AA
22 IIF -	3216	0.60 ± 0.15	± 5%	CGJ5C2C0G1H223J060AA
33 nF -	2012	1.25 ± 0.20	± 5%	CGJ4J2C0G1H333J125AA
33 HF -	3216	0.85 ± 0.15	± 5%	CGJ5F2C0G1H333J085AA
47 nF	3216	1.15 ± 0.15	± 5%	CGJ5H2C0G1H473J115AA
68 nF	3216	1.60 ± 0.20	± 5%	CGJ5L2C0G1H683J160AA
100 nF	3216	1.60 ± 0.20	± 5%	CGJ5L2C0G1H104J160AA

Class 2 (Temperature Stable)

Temperature Characteristics: X7R(-55 to +125°C, ±15%)

Capacitance	Size	Thickness	Capacitance	Catalog Number			
Сараспансе	Size	(mm)	Tolerance	Rated Voltage Edc: 50V	Rated Voltage Edc: 25V	Rated Voltage Edc: 16V	Rated Voltage Edc: 10V
1 nF	1005	0.50 ± 0.05	± 10%	CGJ2B2X7R1H102K050BA	CGJ2B2X7R1E102K050BA	CGJ2B2X7R1C102K050BA	
1.5 nF	1005	0.50 ± 0.05	± 10%	CGJ2B2X7R1H152K050BA	CGJ2B2X7R1E152K050BA	CGJ2B2X7R1C152K050BA	
2.2 nF	1005	0.50 ± 0.05	± 10%	CGJ2B2X7R1H222K050BA	CGJ2B2X7R1E222K050BA	CGJ2B2X7R1C222K050BA	
3.3 nF	1005	0.50 ± 0.05	± 10%	CGJ2B2X7R1H332K050BA	CGJ2B2X7R1E332K050BA	CGJ2B2X7R1C332K050BA	
4.7 nF	1005	0.50 ± 0.05	± 10%	CGJ2B2X7R1H472K050BA	CGJ2B2X7R1E472K050BA	CGJ2B2X7R1C472K050BA	
6.8 nF	1005	0.50 ± 0.05	± 10%	CGJ2B2X7R1H682K050BA	CGJ2B2X7R1E682K050BA	CGJ2B2X7R1C682K050BA	
10 nF -	1005	0.50 ± 0.05	± 10%	CGJ2B3X7R1H103K050BB	CGJ2B2X7R1E103K050BA	CGJ2B2X7R1C103K050BA	
10 11	1608	0.80 ± 0.10	± 10%	CGJ3E2X7R1H103K080AA	CGJ3E2X7R1E103K080AA	CGJ3E2X7R1C103K080AA	
15 nF -	1005	0.50 ± 0.05	± 10%	CGJ2B3X7R1H153K050BB	CGJ2B2X7R1E153K050BA	CGJ2B2X7R1C153K050BA	
15111	1608	0.80 ± 0.10	± 10%	CGJ3E2X7R1H153K080AA	CGJ3E2X7R1E153K080AA	CGJ3E2X7R1C153K080AA	
22 nF =	1005	0.50 ± 0.05	± 10%	CGJ2B3X7R1H223K050BB	CGJ2B2X7R1E223K050BA	CGJ2B2X7R1C223K050BA	
22 115	1608	0.80 ± 0.10	± 10%	CGJ3E2X7R1H223K080AA	CGJ3E2X7R1E223K080AA	CGJ3E2X7R1C223K080AA	
_	1005	0.50 ± 0.05	± 10%	CGJ2B3X7R1H333K050BB	CGJ2B2X7R1E333K050BA	CGJ2B2X7R1C333K050BA	
33 nF	1608	0.80 ± 0.10	± 10%	CGJ3E2X7R1H333K080AA	CGJ3E2X7R1E333K080AA	CGJ3E2X7R1C333K080AA	
	2012	1.25 ± 0.20	± 10%	CGJ4J2X7R1H333K125AA	CGJ4J2X7R1E333K125AA	CGJ4J2X7R1C333K125AA	
_	1005	0.50 ± 0.05	± 10%	CGJ2B3X7R1H473K050BB	CGJ2B2X7R1E473K050BA	CGJ2B2X7R1C473K050BA	
47 nF	1608	0.80 ± 0.10	± 10%	CGJ3E2X7R1H473K080AA	CGJ3E2X7R1E473K080AA	CGJ3E2X7R1C473K080AA	
	2012	1.25 ± 0.20	± 10%	CGJ4J2X7R1H473K125AA	CGJ4J2X7R1E473K125AA	CGJ4J2X7R1C473K125AA	
_	1005	0.50 ± 0.05	± 10%		CGJ2B3X7R1E683K050BB	CGJ2B2X7R1C683K050BA	
68 nF	1608	0.80 ± 0.10	± 10%	CGJ3E2X7R1H683K080AA	CGJ3E2X7R1E683K080AA	CGJ3E2X7R1C683K080AA	
_	2012	1.25 ± 0.20	± 10%	CGJ4J2X7R1H683K125AA	CGJ4J2X7R1E683K125AA	CGJ4J2X7R1C683K125AA	
	1005	0.50 ± 0.05	± 10%		CGJ2B3X7R1E104K050BB	CGJ2B2X7R1C104K050BA	
100 nF	1608	0.80 ± 0.10	± 10%	CGJ3E2X7R1H104K080AA	CGJ3E2X7R1E104K080AA	CGJ3E2X7R1C104K080AA	
_	2012	1.25 ± 0.20	± 10%	CGJ4J2X7R1H104K125AA	CGJ4J2X7R1E104K125AA	CGJ4J2X7R1C104K125AA	
150 nF -	1608	0.80 ± 0.10	± 10%	CGJ3E3X7R1H154K080AB	CGJ3E2X7R1E154K080AA	CGJ3E2X7R1C154K080AA	
150 11F -	2012	1.25 ± 0.20	± 10%	CGJ4J2X7R1H154K125AA	CGJ4J2X7R1E154K125AA	CGJ4J2X7R1C154K125AA	
220 nF -	1608	0.80 ± 0.10	± 10%	CGJ3E3X7R1H224K080AB	CGJ3E2X7R1E224K080AA	CGJ3E2X7R1C224K080AA	
220 HF -	2012	1.25 ± 0.20	± 10%	CGJ4J2X7R1H224K125AA	CGJ4J2X7R1E224K125AA	CGJ4J2X7R1C224K125AA	CGJ4J2X7R1A224K125AA
330 nF -	1608	0.80 ± 0.10	± 10%		CGJ3E3X7R1E334K080AB	CGJ3E2X7R1C334K080AA	CGJ3E2X7R1A334K080AA
330 11	2012	1.25 ± 0.20	± 10%	CGJ4J2X7R1H334K125AA	CGJ4J2X7R1E334K125AA	CGJ4J2X7R1C334K125AA	CGJ4J2X7R1A334K125AA
	1608	0.80 ± 0.10	± 10%		CGJ3E3X7R1E474K080AB	CGJ3E2X7R1C474K080AA	CGJ3E2X7R1A474K080AA
470 nF	2012	1.25 ± 0.20	± 10%	CGJ4J3X7R1H474K125AB	CGJ4J2X7R1E474K125AA	CGJ4J2X7R1C474K125AA	CGJ4J2X7R1A474K125AA
	3216	1.60 +0.30/-0.10	± 10%	CGJ5L2X7R1H474K160AA			
_	1608	0.80 ± 0.10	± 10%		CGJ3E1X7R1E684K080AC	CGJ3E3X7R1C684K080AB	CGJ3E2X7R1A684K080AA
680 nF	2012	1.25 ± 0.20	± 10%	CGJ4J3X7R1H684K125AB	CGJ4J2X7R1E684K125AA	CGJ4J2X7R1C684K125AA	CGJ4J2X7R1A684K125AA
	3216	1.60 +0.30/-0.10	± 10%	CGJ5L2X7R1H684K160AA			
	1608	0.80 ± 0.10	± 10%		CGJ3E1X7R1E105K080AC	CGJ3E3X7R1C105K080AB	CGJ3E2X7R1A105K080AA
1 μF -	2012	1.25 ± 0.20	± 10%	CGJ4J3X7R1H105K125AB	CGJ4J2X7R1E105K125AA	CGJ4J2X7R1C105K125AA	CGJ4J2X7R1A105K125AA
ι μτ =	3216	1.60 +0.30/-0.10	± 10%		CGJ5L2X7R1E105K160AA		
_	3225	1.60 ± 0.20	± 10%	CGJ6L2X7R1H105K160AA	CGJ6L2X7R1E105K160AA	CGJ6L2X7R1C105K160AA	
	2012	1.25 ± 0.20	± 10%		CGJ4J3X7R1E155K125AB	CGJ4J2X7R1C155K125AA	CGJ4J2X7R1A155K125AA
15	3216	1.60 +0.30/-0.10	± 10%	CGJ5L3X7R1H155K160AB	CGJ5L2X7R1E155K160AA	CGJ5L2X7R1C155K160AA	CGJ5L2X7R1A155K160AA
1.5 μF -	2005	1.60 ± 0.20	± 10%		CGJ6L2X7R1E155K160AA	CGJ6L2X7R1C155K160AA	
	3225	2.00 ± 0.20	± 10%	CGJ6M2X7R1H155K200AA			
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Capacitance Range Table

Class 2 (Temperature Stable)

Temperature Characteristics: X7R(-55 to +125°C, ±15%)

Capacitance	Size	Thickness	Capacitance	Catalog Number			
Capacitance Size (r	(mm)	Tolerance	Rated Voltage Edc: 50V	Rated Voltage Edc: 25V	Rated Voltage Edc: 16V	Rated Voltage Edc: 10V	
2.2 µF —	2012	1.25 ± 0.20	± 10%		CGJ4J3X7R1E225K125AB	CGJ4J2X7R1C225K125AA	CGJ4J2X7R1A225K125AA
2.2 μΓ	3216	1.60 +0.30/-0.10	± 10%	CGJ5L3X7R1H225K160AB	CGJ5L2X7R1E225K160AA	CGJ5L2X7R1C225K160AA	CGJ5L2X7R1A225K160AA
22	2012	1.25 ± 0.20	± 10%		CGJ4J1X7R1E335K125AC	CGJ4J3X7R1C335K125AB	CGJ4J2X7R1A335K125AA
3.3 μF —	3216	1.60 +0.30/-0.10	± 10%		CGJ5L3X7R1E335K160AB	CGJ5L2X7R1C335K160AA	CGJ5L2X7R1A335K160AA
4.7 µF —	2012	1.25 ± 0.20	± 10%		CGJ4J1X7R1E475K125AC	CGJ4J3X7R1C475K125AB	CGJ4J2X7R1A475K125AA
4.7 μr —	3216	1.60 +0.30/-0.10	± 10%		CGJ5L3X7R1E475K160AB	CGJ5L2X7R1C475K160AA	CGJ5L2X7R1A475K160AA
6.8 µF	3216	1.60 +0.30/-0.10	± 10%				CGJ5L2X7R1A685K160AA
10 μF	3216	1.60 +0.30/-0.10	± 10%				CGJ5L2X7R1A106K160AA

Class 2 (Temperature Stable)

Temperature Characteristics: X7R(-55 to +125 $^{\circ}$ C, ±15%)

Capacitance	Size	Thickness	Capacitance	Catalog Number
Capacitance	Size	(mm)	Tolerance	Rated Voltage Edc: 6.3V
220 nF	2012	1.25 ± 0.20	± 10%	CGJ4J2X7R0J224K125AA
330 nF -	1608	0.80 ± 0.10	± 10%	CGJ3E2X7R0J334K080AA
330 HF -	2012	1.25 ± 0.20	± 10%	CGJ4J2X7R0J334K125AA
470 nF -	1608	0.80 ± 0.10	± 10%	CGJ3E2X7R0J474K080AA
470111	2012	1.25 ± 0.20	± 10%	CGJ4J2X7R0J474K125AA
680 nF -	1608	0.80 ± 0.10	± 10%	CGJ3E2X7R0J684K080AA
000 11	2012	1.25 ± 0.20	± 10%	CGJ4J2X7R0J684K125AA
1 μF -	1608	0.80 ± 0.10	± 10%	CGJ3E2X7R0J105K080AA
ıμr	2012	1.25 ± 0.20	± 10%	CGJ4J2X7R0J105K125AA
	1608	0.80 ± 0.10	± 10%	CGJ3E1X7R0J155K080AC
1.5 µF	2012	1.25 ± 0.20	± 10%	CGJ4J2X7R0J155K125AA
_	3216	1.60 +0.30/-0.10	± 10%	CGJ5L2X7R0J155K160AA
	1608	0.80 ± 0.10	± 10%	CGJ3E1X7R0J225K080AC
2.2 µF	2012	1.25 ± 0.20	± 10%	CGJ4J2X7R0J225K125AA
	3216	1.60 +0.30/-0.10	± 10%	CGJ5L2X7R0J225K160AA
3.3 µF -	2012	1.25 ± 0.20	± 10%	CGJ4J2X7R0J335K125AA
3.3 μΓ	3216	1.60 +0.30/-0.10	± 10%	CGJ5L2X7R0J335K160AA
4.7 µF -	2012	1.25 ± 0.20	± 10%	CGJ4J2X7R0J475K125AA
4.7 μΓ	3216	1.60 +0.30/-0.10	± 10%	CGJ5L2X7R0J475K160AA
60.IE _	2012	1.25 ± 0.20	± 10%	CGJ4J1X7R0J685K125AC
6.8 μF -	3216	1.60 +0.30/-0.10	± 10%	CGJ5L2X7R0J685K160AA
10 uE	2012	1.25 ± 0.20	± 10%	CGJ4J1X7R0J106K125AC
10 μF –	3216	1.60 +0.30/-0.10	± 10%	CGJ5L2X7R0J106K160AA

Class 2 (Temperature Stable)

Temperature Characteristics: X7S(-55 to +125 $^{\circ}\text{C}\,,\,\pm22\%)$

Capacitance	Size	Thickness	Capacitance	Catalog Number
Capacitance		(mm)	Tolerance	Rated Voltage Edc: 50V
4.7 µF	3225	2.30 ± 0.20	± 10%	CGJ6N3X7S1H475K230AB
6.8 µF	3225	2.50 ± 0.30	± 10%	CGJ6P3X7S1H685K250AB
10 μF	3225	2.50 ± 0.30	± 10%	CGJ6P3X7S1H106K250AB