



CGJ Series
High Reliability Grade
Mid Voltage (100 to 630V)

Type: 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 Mid Voltage (100 to 630V)

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

Features

1.15 mm

2.00 mm

- · 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 products
- 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

Shape & Dimensions



	Body Length
	, 0
W	Body Width
Т	Body Height
В	Terminal Width
G	Terminal Spacing

GJ • 6 • M • 3 • X7S • 2A • 475 • K • 200 • A • A **Catalog Number** Construction Series Name Dimensions L x W (mm) Width Length 1.60 ± 0.10 0.80 ± 0.10 0.20 min. 2.00 ± 0.20 1.25 ± 0.20 0.20 min. 1.60 ± 0.20 2.50 ± 0.30 3.20 ± 0.40 0.20 min. * Standard dimensions Thickness T Code (mm) Thickness **Voltage Condition** Code 0.60 mm for Life Test 0.80 mm Symbol Condition 0.85 mm 1 × R.V. 1.15 mm 2 × R.V. 1.25 mm 1.5 × R.V 1.30 mm 1.2 × R.V. 1.60 mm 2.00 mm Temperature Characteristics Rated Voltage (DC) • Temperature Temperature Coefficient or Temperature Characteristics Capacitance Change Range Voltage (DC) Code C0G 0±30 ppm/°C -55 to +125°C 2A 100V X7R -55 to +125°C -55 to +125°C 500V +22/-33% Nominal Capacitance (pF) Capacitance Tolerance The capacitance is expressed in three digit codes and in units of pico Farads (pF). The first and second digits identify the first and second Code Tolerance significant figures of the capacitance. The third digit identifies the multiplier. R designates a decimal point. Ex. 0R2 = 0.2pF; 103 = 10,000pF; 105 = 1,000,000pF = 100nF = 1µF ± 10% Nominal Thickness **Packaging Style** Thickness Code Thickness Code Special Reserved Code 060 0.60 mm 125 1.25 mm Code Style Code Description 080 178 mm Reel, 4 mm Pitch 0.80 mm 130 1.30 mm TDK Internal Code 0.85 mm



Capacitance Range Chart

CGJ3(1608) [EIA CC0603]

Capacitance Range Chart

Temperature Characteristics: C0G (0 \pm 30ppm/°C), X7R (\pm 15%), X7S (\pm 22%) Rated Voltage: 200V (2D), 100V (2A)

Capacitan	се		C)G	X7R	X7S	
(pF)	Code	Tolerance	2D (200V)	2A (100V)	2A (100V)	2A (100V)	
100	101	J: ± 5%					
120	121						
150	151						
180	181						
220	221						
270	271						
330	331						
390	391						
470	471						Ī
560	561						
680	681						Ī
820	821						Ī
1,000	102	C0G;					
1,200	122	J: ± 5%					Ī
1,500	152						
2,200	222	X7R, X7S;					I
3,300	332	K:±10%					Ī
4,700	472						1
6,800	682						Ī
10,000	103						Ī
33,000	333						Ī
47,000	473						Ī
68,000	683						Ī
100,000	104						Ī



Capacitance Range Chart

CGJ4(2012) [EIA CC0805]

Capacitance Range Chart

Temperature Characteristics: C0G (0 \pm 30ppm/°C), X7R (\pm 15%), X7S (\pm 22%), X7T (\pm 22%/-33%) Rated Voltage: 200V (2D), 100V (2A)

Capacitan	се		C	OG	X	7R	X7S	X7T	
(pF)	Code	Tolerance	2D (200V)	2A (100V)	2D (200V)	2A (100V)	2A (100V)	2D (200V)	
100	101	J: ± 5%							
120	121								
150	151								
180	181								
220	221								
270	271								
330	331								
390	391								
470	471								
560	561								
680	681								
820	821								
1,000	102								
1,200	122								
1,500	152								
1,800	182								
2,200	222								
2,700	272								
3,300	332								
3,900	392								
4,700	472								
6,800	682	K: ± 10%							
10,000	103								
15,000	153								
22,000	223								
33,000	333								
47,000	473								Standard Thickne
68,000	683								0.60 mm
100,000	104								
330,000	334								0.85 mm
470,000	474								1.25 mm

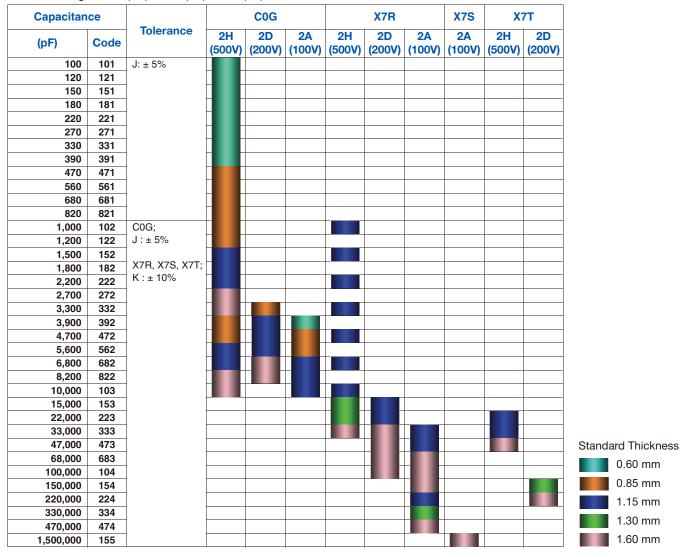


Capacitance Range Chart

CGJ5(3216) [EIA CC1206]

Capacitance Range Chart

Temperature Characteristics: C0G (0 \pm 30ppm/°C), X7R (\pm 15%), X7S (\pm 22%), X7T (\pm 22%/-33%) Rated Voltage: 500V (2H), 200V (2D), 100V (2A)





Capacitance Range Chart

CGJ6(3225) [EIA CC1210]

Capacitance Range Chart

Temperature Characteristics: X7R (±15%), X7S (±22%), X7T (+22%/-33%)

Rated Voltage: 500V (2H), 200V (2D), 100V (2A)

Capacitan	Capacitance		X7R			X7S		7T	
(pF)	Code	Tolerance	2H (500V)	2D (200V)	2A (100V)	2A (100V)	2H (500V)	2D (200V)	
47,000	473	K: ± 10%							1
68,000	683								
100,000	104								
150,000	154								1
220,000	224								1
330,000	334								
470,000	474								
680,000	684								Standard Thickness
1,000,000	105								1.60 mm
3,300,000	335								1.60 mm
4,700,000	475								2.00 mm



Capacitance Range Table

Class 1 (Temperature Compensating)

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

		Thickness	Capacitance	Catalog Number		
Capacitance	Size	(mm)	Tolerance	Rated Voltage Edc: 500V	Rated Voltage Edc: 200V	Rated Voltage Edc: 100V
_	1608	0.80 ± 0.10	± 5%		CGJ3E3C0G2D101J080AA	CGJ3E2C0G2A101J080AA
100 pF _	2012	0.60 ± 0.15	± 5%			CGJ4C2C0G2A101J060AA
	3216	0.60 ± 0.15	± 5%	CGJ5C4C0G2H101J060AA		
	1608	0.80 ± 0.10	± 5%		CGJ3E3C0G2D121J080AA	CGJ3E2C0G2A121J080AA
120 pF	2012	0.60 ± 0.15	± 5%			CGJ4C2C0G2A121J060AA
	3216	0.60 ± 0.15	± 5%	CGJ5C4C0G2H121J060AA		
_	1608	0.80 ± 0.10	± 5%		CGJ3E3C0G2D151J080AA	CGJ3E2C0G2A151J080AA
150 pF	2012	0.60 ± 0.15	± 5%			CGJ4C2C0G2A151J060AA
	3216	0.60 ± 0.15	± 5%	CGJ5C4C0G2H151J060AA		
_	1608	0.80 ± 0.10	± 5%		CGJ3E3C0G2D181J080AA	CGJ3E2C0G2A181J080AA
180 pF	2012	0.60 ± 0.15	± 5%			CGJ4C2C0G2A181J060AA
-	3216	0.60 ± 0.15	± 5%	CGJ5C4C0G2H181J060AA		
_	1608	0.80 ± 0.10	± 5%		CGJ3E3C0G2D221J080AA	CGJ3E2C0G2A221J080AA
220 pF	2012	0.60 ± 0.15	± 5%			CGJ4C2C0G2A221J060AA
	3216	0.60 ± 0.15	± 5%	CGJ5C4C0G2H221J060AA		
_	1608	0.80 ± 0.10	± 5%		CGJ3E3C0G2D271J080AA	CGJ3E2C0G2A271J080AA
270 pF	2012	0.60 ± 0.15	± 5%			CGJ4C2C0G2A271J060AA
	3216	0.60 ± 0.15	± 5%	CGJ5C4C0G2H271J060AA		
_	1608	0.80 ± 0.10	± 5%		CGJ3E3C0G2D331J080AA	CGJ3E2C0G2A331J080AA
330 pF	2012	0.60 ± 0.15	± 5%			CGJ4C2C0G2A331J060AA
	3216	0.60 ± 0.15	± 5%	CGJ5C4C0G2H331J060AA		
_	1608	0.80 ± 0.10	± 5%		CGJ3E3C0G2D391J080AA	CGJ3E2C0G2A391J080AA
390 pF	2012	0.60 ± 0.15	± 5%			CGJ4C2C0G2A391J060AA
	3216	0.60 ± 0.15	± 5%	CGJ5C4C0G2H391J060AA		
_	1608	0.80 ± 0.10	± 5%		CGJ3E3C0G2D471J080AA	CGJ3E2C0G2A471J080AA
470 pF	2012	0.60 ± 0.15	± 5%			CGJ4C2C0G2A471J060AA
	3216	0.85 ± 0.15	± 5%	CGJ5F4C0G2H471J085AA		
	1608	0.80 ± 0.10	± 5%		CGJ3E3C0G2D561J080AA	CGJ3E2C0G2A561J080AA
560 pF	2012	0.60 ± 0.15	± 5%			CGJ4C2C0G2A561J060AA
	3216	0.85 ± 0.15	± 5%	CGJ5F4C0G2H561J085AA		
_	1608	0.80 ± 0.10	± 5%		CGJ3E3C0G2D681J080AA	CGJ3E2C0G2A681J080AA
680 pF	2012	0.60 ± 0.15	± 5%			CGJ4C2C0G2A681J060AA
	3216	0.85 ± 0.15	± 5%	CGJ5F4C0G2H681J085AA		
_	1608	0.80 ± 0.10	± 5%			CGJ3E2C0G2A821J080AA
820 pF	2012	0.60 ± 0.15	± 5%		CGJ4C3C0G2D821J060AA	CGJ4C2C0G2A821J060AA
	3216	0.85 ± 0.15	± 5%	CGJ5F4C0G2H821J085AA		
	1608	0.80 ± 0.10	± 5%			CGJ3E2C0G2A102J080AA
1 nF	2012	0.60 ± 0.15	± 5%			CGJ4C2C0G2A102J060AA
- 1111	2012	0.85 ± 0.15	± 5%		CGJ4F3C0G2D102J085AA	
	3216	0.85 ± 0.15	± 5%	CGJ5F4C0G2H102J085AA		
_	1608	0.80 ± 0.10	± 5%			CGJ3E2C0G2A122J080AA
1.2 nF	2012	0.60 ± 0.15	± 5%			CGJ4C2C0G2A122J060AA
1.2 111	2012	0.85 ± 0.15	± 5%		CGJ4F3C0G2D122J085AA	
	3216	0.85 ± 0.15	± 5%	CGJ5F4C0G2H122J085AA		
	2012	0.60 ± 0.15	± 5%			CGJ4C2C0G2A152J060AA
1.5 nF	2012	0.85 ± 0.15	± 5%		CGJ4F3C0G2D152J085AA	
	3216	1.15 ± 0.15	± 5%	CGJ5H4C0G2H152J115AA		
	2012	0.85 ± 0.15	± 5%			CGJ4F2C0G2A182J085AA
1.8 nF	2012	1.25 ± 0.20	± 5%		CGJ4J3C0G2D182J125AA	
	3216	1.15 ± 0.15	± 5%	CGJ5H4C0G2H182J115AA		
	2012	0.85 ± 0.15	± 5%			CGJ4F2C0G2A222J085AA
2.2 nF	2012	1.25 ± 0.20	± 5%		CGJ4J3C0G2D222J125AA	
	3216	1.15 ± 0.15	± 5%	CGJ5H4C0G2H222J115AA		
2.7 nF -	2012	1.25 ± 0.20	± 5%		CGJ4J3C0G2D272J125AA	CGJ4J2C0G2A272J125AA
Z./ IIF =	3216	1.60 ± 0.20	± 5%	CGJ5L4C0G2H272J160AA		
_	2012	1.25 ± 0.20	± 5%			CGJ4J2C0G2A332J125AA
3.3 nF	3216	0.85 ± 0.15	± 5%		CGJ5F3C0G2D332J085AA	
	0210	1.60 ± 0.20	± 5%	CGJ5L4C0G2H332J160AA		

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 Table

Class 1 (Temperature Compensating)

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

Capacitance Size		Thickness	Capacitance	Catalog Number		
Capacitance	Size	(mm)	Tolerance	Rated Voltage Edc: 500V	Rated Voltage Edc: 200V	Rated Voltage Edc: 100V
	2012	1.25 ± 0.20	± 5%			CGJ4J2C0G2A392J125AA
3.9 nF		0.60 ± 0.15	± 5%			CGJ5C2C0G2A392J060AA
3.9 11	3216	0.85 ± 0.15	± 5%	CGJ5F4C0G2H392J085AA		
		1.15 ± 0.15	± 5%		CGJ5H3C0G2D392J115AA	
	2012	1.25 ± 0.20	± 5%			CGJ4J2C0G2A472J125AA
4.7 nF	3216 -	0.85 ± 0.15	± 5%	CGJ5F4C0G2H472J085AA		CGJ5F2C0G2A472J085AA
	3210	1.15 ± 0.15	± 5%		CGJ5H3C0G2D472J115AA	
5.6 nF	3216	0.85 ± 0.15	± 5%			CGJ5F2C0G2A562J085AA
3.0 HF	3210	1.15 ± 0.15	± 5%	CGJ5H4C0G2H562J115AA	CGJ5H3C0G2D562J115AA	
6.8 nF	3216	1.15 ± 0.15	± 5%	CGJ5H4C0G2H682J115AA		CGJ5H2C0G2A682J115AA
0.0 11	3210	1.60 ± 0.20	± 5%		CGJ5L3C0G2D682J160AA	
8.2 nF	3216	1.15 ± 0.15	± 5%			CGJ5H2C0G2A822J115AA
0.2 11	3210	1.60 ± 0.20	± 5%	CGJ5L4C0G2H822J160AA	CGJ5L3C0G2D822J160AA	
10 nF	3216	1.15 ± 0.15	± 5%			CGJ5H2C0G2A103J115AA
10 NF	3210	1.60 ± 0.20	± 5%	CGJ5L4C0G2H103J160AA		

Class 2 (Temperature Stable)

Temperature Characteristics: X7R(-55 to +125 $^{\circ}\text{C}\,,\,\pm15\%)$

Tolerance	Consoitones	Cino	Thickness	Capacitance	Catalog Number		
1.5 nF	Capacitance	Size	(mm)	Tolerance	Rated Voltage Edc: 500V	Rated Voltage Edc: 200V	Rated Voltage Edc: 100V
1.5 nF		1608	0.80 ± 0.10	± 10%			CGJ3E2X7R2A102K080AA
1.5 nF 3216		3216	1.15 ± 0.15	± 10%	CGJ5H4X7R2H102K115AA		
2.2 nF	1.5 nF -	1608	0.80 ± 0.10	± 10%			CGJ3E2X7R2A152K080AA
3216		3216	1.15 ± 0.15	± 10%	CGJ5H4X7R2H152K115AA		
3216 1.15 ± 0.15 ± 10% CG_JSH4X7R2H222K115AA 3216 1.15 ± 0.15 ± 10% CG_JSH4X7R2H332K115AA 4.7 nF	2255	1608	0.80 ± 0.10	± 10%			CGJ3E2X7R2A222K080AA
3.3 nF	2.2 11	3216	1.15 ± 0.15	± 10%	CGJ5H4X7R2H222K115AA		
1.15 ± 0.15 ± 10% CGJSH4X7R2H332K115AA CGJSE2X7R2A472K080AA 1608	33 nF -	1608	0.80 ± 0.10	± 10%			CGJ3E2X7R2A332K080AA
4.7 nF	0.0 111	3216	1.15 ± 0.15	± 10%	CGJ5H4X7R2H332K115AA		
1.15 ± 0.15	47 nF -	1608	0.80 ± 0.10	± 10%			CGJ3E2X7R2A472K080AA
6.8 nF	4.7 111	3216	1.15 ± 0.15	± 10%	CGJ5H4X7R2H472K115AA		
3216		1608	0.80 ± 0.10	± 10%			CGJ3E2X7R2A682K080AA
1608	6.8 nF	2012	1.25 ± 0.20	± 10%		CGJ4J3X7R2D682K125AA	
10 nF		3216	1.15 ± 0.15	± 10%	CGJ5H4X7R2H682K115AA		
3216		1608	0.80 ± 0.10	± 10%			CGJ3E2X7R2A103K080AA
15 nF	10 nF	2012	1.25 ± 0.20	± 10%		CGJ4J3X7R2D103K125AA	
15 nF 3216		3216	1.15 ± 0.15	± 10%	CGJ5H4X7R2H103K115AA		
3216		2012	1.25 ± 0.20	± 10%		CGJ4J3X7R2D153K125AA	CGJ4J2X7R2A153K125AA
1.30 ± 0.20	15 nF	3216 —	1.15 ± 0.15	± 10%		CGJ5H3X7R2D153K115AA	
$ \begin{array}{c} 22 \mathrm{nF} \\ \\ 216 \\ \\ \hline \\ 1.30 \pm 0.20 \\ \\ \hline \\ 1.30 \pm 0.20 \\ \\ \pm 10\% \\ \hline \\ 2012 \\ \hline \\ 1.25 \pm 0.20 \\ \\ \pm 10\% \\ \hline \\ 2012 \\ \hline \\ 1.25 \pm 0.20 \\ \\ \pm 10\% \\ \hline \\ 2012 \\ \hline \\ 1.15 \pm 0.15 \\ \\ \pm 10\% \\ \hline \\ 2016 \\ \hline \\ 1.15 \pm 0.15 \\ \\ \pm 10\% \\ \hline \\ 2016 \\ \hline \\ 1.15 \pm 0.15 \\ \\ \pm 10\% \\ \hline \\ 2016 \\ \hline \\ 1.15 \pm 0.15 \\ \\ \pm 10\% \\ \hline \\ 2016 \\ \hline \\ 2017 \\ \hline \\ 2018 \\ \hline \\ 2018 \\ \hline \\ 2019 \\ \hline \\ 20$			1.30 ± 0.20	± 10%	CGJ5K4X7R2H153K130AA		
3216		2012	1.25 ± 0.20	± 10%		CGJ4J3X7R2D223K125AA	CGJ4J2X7R2A223K125AA
1.30 ± 0.20 ± 10% CGJ5K4X7R2H223K130AA 2012 1.25 ± 0.20 ± 10% CGJ5K4X7R2H333K160AA CGJ5L3X7R2D333K160AA 3216 1.15 ± 0.15 ± 10% CGJ5L4X7R2H333K160AA CGJ5L3X7R2D333K160AA 2012 1.25 ± 0.20 ± 10% CGJ5L4X7R2H333K160AA CGJ5L3X7R2D333K160AA 2012 1.25 ± 0.20 ± 10% CGJ5L4X7R2H333K160AA 2012 1.25 ± 0.20 ± 10% CGJ5L3X7R2D473K160AA 3216 1.15 ± 0.15 ± 10% CGJ5M4X7R2H473K200AA 3225 2.00 ± 0.20 ± 10% CGJ6M4X7R2H473K200AA 68 nF 3216 1.60 ± 0.20 ± 10% CGJ6M4X7R2H683K200AA 100 nF 3225 2.00 ± 0.20 ± 10% CGJ6M4X7R2H683K200AA 100 nF 3225 2.00 ± 0.20 ± 10% CGJ6M4X7R2H683K200AA 150 nF 3216 1.60 ± 0.20 ± 10% CGJ6M3X7R2D104K160AA CGJ5L2X7R2A104K160AA 150 nF 3225 2.00 ± 0.20 ± 10% CGJ6M3X7R2D104K200AA 220 nF 3216 1.60 ± 0.20 ± 10% CGJ6M3X7R2D154K200AA 220 nF 3216 1.15 ± 0.15 ± 10% CGJ6M3X7R2D154K200AA 3225 2.00 ± 0.20 ± 10% CGJ6M3X7R2D154K200AA 220 nF 3216 1.15 ± 0.15 ± 10% CGJ6M3X7R2D224K200AA 3225 2.00 ± 0.20 ± 10% CGJ6M3X7R2D224K200AA 3226 2.00 ± 0.20 ± 10% CGJ6M3X7R2D224K200AA 3227 2.00 ± 0.20 ± 10% CGJ6M3X7R2D224K200AA 3228 2.00 ± 0.20 ± 10% CGJ6M3X7R2D224K200AA 329 nF 3216 1.30 ± 0.20 ± 10% CGJ6M3X7R2D224K200AA 320 nF 3216 1.30 ± 0.20 ± 10% CGJ6M3X7R2D224K200AA	22 nF	3216 —	1.15 ± 0.15	± 10%		CGJ5H3X7R2D223K115AA	
$ \begin{array}{c} 33 \mathrm{nF} \\ \hline \\ 3216 \\ \hline \\ 1.60 \pm 0.20 \\ \hline \\ 1.60 \pm 0.20 \\ \hline \\ 2012 \\ \hline \\ 1.25 \pm 0.20 \\ \hline \\ 2012 \\ \hline \\ 1.25 \pm 0.20 \\ \hline \\ 2012 \\ \hline \\ 1.25 \pm 0.20 \\ \hline \\ 2012 \\ \hline \\ 2012 \\ \hline \\ 1.25 \pm 0.20 \\ \hline \\ 2012 \\ \hline \\ 1.25 \pm 0.20 \\ \hline \\ 2012 \\ \hline \\ 1.25 \pm 0.20 \\ \hline \\ 2012 \\ \hline \\ 2013 \\ \hline \\ 2016 \\ \hline \\ 2015 \\ \hline \\ 2016 \\ \hline \\ 2016 \\ \hline \\ 2016 \\ \hline \\ 2016 \\ \hline \\ 2017 \\ 2017 \\ \hline \\ $		3210	1.30 ± 0.20	± 10%	CGJ5K4X7R2H223K130AA		
1.60 ± 0.20		2012	1.25 ± 0.20	± 10%			CGJ4J2X7R2A333K125AA
1.60 ± 0.20 ± 10% CGJ5L4X7R2H333K160AA CGJ5L3X7R2D333K160AA 2012 1.25 ± 0.20 ± 10% CGJ5L3X7R2D333K160AA 2012 1.25 ± 0.20 ± 10% CGJ5H2X7R2A473K125AA 2012 1.50 ± 0.15 ± 10% CGJ5H2X7R2D473K160AA 2013 226 2.00 ± 0.20 ± 10% CGJ6M4X7R2H473K200AA 2014 1.60 ± 0.20 ± 10% CGJ6M4X7R2H473K200AA 2015 2.00 ± 0.20 ± 10% CGJ6M4X7R2H683K200AA 2016 1.60 ± 0.20 ± 10% CGJ6M4X7R2H683K200AA 2016 1.60 ± 0.20 ± 10% CGJ6M4X7R2H683K200AA 2017 2.00 ± 0.20 ± 10% CGJ6M3X7R2D104K160AA CGJ5L2X7R2A683K160AA 2018 2.00 ± 0.20 ± 10% CGJ6M3X7R2D104K160AA CGJ5L2X7R2A104K160AA 2018 2.00 ± 0.20 ± 10% CGJ6M3X7R2D104K200AA 2018 2.00 ± 0.20 ± 10% CGJ6M3X7R2D154K200AA 2018 2.00 ± 0.20 ± 10% CGJ6M3X7R2D224K200AA	33 nF	2216	1.15 ± 0.15	± 10%			CGJ5H2X7R2A333K115AA
$ \begin{array}{c} 47 \mathrm{nF} \\ \hline 47 \mathrm{nF} \\ \hline \\ 1216 \\ \hline \\ 1.60 \pm 0.20 \\ \hline \\ 2225 \\ \hline \\ 2.00 \pm 0.20 \\ \hline \\ 20.00 \pm 0.20 \\ \hline \\ \\ \\ 20.00 \pm 0.20 \\ \hline \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ $		3210	1.60 ± 0.20	± 10%	CGJ5L4X7R2H333K160AA	CGJ5L3X7R2D333K160AA	
1.60 ± 0.20 ± 10% CGJ5L3X7R2D473K160AA 3225 2.00 ± 0.20 ± 10% CGJ6M4X7R2H473K200AA 68 nF		2012	1.25 ± 0.20	± 10%			CGJ4J2X7R2A473K125AA
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	47 nF	3216	1.15 ± 0.15	± 10%			CGJ5H2X7R2A473K115AA
$ \begin{array}{c} 68 \text{ nF} \\ \hline 68 \text{ nF} \\ \hline \\ 3216 \\ 3225 \\ 2.00 \pm 0.20 \\ \pm 10\% \\ \hline \\ 3225 \\ 2.00 \pm 0.20 \\ \pm 10\% \\ \hline \\ 3216 \\ 3225 \\ 2.00 \pm 0.20 \\ \pm 10\% \\ \hline \\ 3226 \\ 2.00 \pm 0.20 \\ \pm 10\% \\ \hline \\ 3226 \\ 2.00 \pm 0.20 \\ \pm 10\% \\ \hline \\ 3226 \\ 2.00 \pm 0.20 \\ \pm 10\% \\ \hline \\ 3226 \\ 2.00 \pm 0.20 \\ \pm 10\% \\ \hline \\ 3226 \\ 2.00 \pm 0.20 \\ \pm 10\% \\ \hline \\ 3226 \\ 2.00 \pm 0.20 \\ \pm 10\% \\ \hline \\ \\ 3226 \\ 2.00 \pm 0.20 \\ \pm 10\% \\ \hline \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ $	47 III _	0210	1.60 ± 0.20	± 10%		CGJ5L3X7R2D473K160AA	
3225 2.00 ± 0.20 ± 10% CGJ6M4X7R2H683K200AA 100 nF 3216 1.60 ± 0.20 ± 10% CGJ6M4X7R2H683K200AA 120 nF 3225 2.00 ± 0.20 ± 10% CGJ6M3X7R2D104K160AA CGJ5L2X7R2A104K160AA 150 nF 3216 1.60 ± 0.20 ± 10% CGJ6M3X7R2D104K200AA 150 nF 3225 2.00 ± 0.20 ± 10% CGJ6M3X7R2D154K200AA 220 nF 3216 1.15 ± 0.15 ± 10% CGJ6M3X7R2D154K200AA CGJ6M3X7R2D154K200AA CGJ6M3X7R2D224K200AA 3225 2.00 ± 0.20 ± 10% CGJ6M3X7R2D224K200AA CGJ6M3X7R2D224K200AA 3216 1.30 ± 0.20 ± 10% CGJ6M3X7R2D224K200AA CGJ6M3X7R2D224K20AA CGJ6M3X7R2D224K20AA CGJ6M3X7R2D224K20AA CGJ6M3X7R2D224K20AA CGJ6M3X7R2D224K20AA CGJ6M3X7R2D2AA CGJ6M3X7R2D2AA CGJ6M3X7R2D2AA CGJ6M3X7R2D2AA CGJ6M3X7R2D2AA CGJ6M3X7R2D2AA CGJ6M3X7R2D2AA CGJ6M3X7R2D2AA CGJ6M3X7R2D2AA CGJ		3225	2.00 ± 0.20	± 10%	CGJ6M4X7R2H473K200AA		
100 nF 3225 2.00 ± 0.20 ± 10% CGJ6M4X7R2H683K200AA CGJ5L3X7R2D104K160AA CGJ5L2X7R2A104K160AA 100 nF 3225 2.00 ± 0.20 ± 10% CGJ6M3X7R2D104K200AA 150 nF 3216 1.60 ± 0.20 ± 10% CGJ6M3X7R2D154K200AA 150 nF 3225 2.00 ± 0.20 ± 10% CGJ6M3X7R2D154K200AA 150 nF 3216 1.15 ± 0.15 ± 10% CGJ6M3X7R2D154K200AA 150 nF 3216 1.15 ± 0.15 ± 10% CGJ6M3X7R2D154K200AA 150 nF 3216 1.15 ± 0.15 ± 10% CGJ6M3X7R2D154K200AA 150 nF 3216 1.15 ± 0.15 ± 10% CGJ6M3X7R2D154K200AA 150 nF 3216 1.15 ± 0.15 ± 10% CGJ6M3X7R2D224K200AA 150 nF 3216 1.30 ± 0.20 ± 10% CGJ6M3X7R2D224K200AA 150 nF 3216 1.30 ± 0.20 ± 10% CGJ6M3X7R2D224K200AA 150 nF 3216 1.30 ± 0.20 ± 10% CGJ6M3X7R2D224K200AA 150 nF 3216 1.30 ± 0.20 ± 10% CGJ6M3X7R2D224K200AA 150 nF 3216 1.30 ± 0.20 ± 10% CGJ6M3X7R2D224K200AA 150 nF 3216 1.30 ± 0.20 ± 10% CGJ6M3X7R2D224K200AA 150 nF 3216 1.30 ± 0.20 ± 10% CGJ6M3X7R2D224K200AA 150 nF 3216 1.30 ± 0.20 ± 10% CGJ6M3X7R2D224K200AA 150 nF 3216 1.30 ± 0.20 ± 10% CGJ6M3X7R2D224K200AA 150 nF 3216 1.30 ± 0.20 ± 10% CGJ6M3X7R2D224K200AA 150 nF 3216 1.30 ± 0.20 ± 10% CGJ6M3X7R2D224K200AA 150 nF 3216 1.30 ± 0.20 ± 10% CGJ6M3X7R2D224K200AA 150 nF 3216 1.30 ± 0.20 ± 10% CGJ6M3X7R2D224K200AA 150 nF 3216 1.30 ± 0.20 ± 10% CGJ6M3X7R2D224K200AA 150 nF 3216 1.30 ± 0.20 ± 10% CGJ6M3X7R2D224K200AA	68 nF _	3216	1.60 ± 0.20	± 10%		CGJ5L3X7R2D683K160AA	CGJ5L2X7R2A683K160AA
100 nF 3225 2.00 ± 0.20 ± 10% CGJ6M3X7R2D104K200AA 150 nF 3216 1.60 ± 0.20 ± 10% CGJ5L2X7R2A154K160AA 220 nF 3216 1.15 ± 0.15 ± 10% CGJ6M3X7R2D154K200AA 220 nF 3216 1.15 ± 0.15 ± 10% CGJ6M3X7R2D224K200AA 332 nF 3216 1.30 ± 0.20 ± 10% CGJ6M3X7R2D224K200AA 333 nF 3216 1.30 ± 0.20 ± 10% CGJ6M3X7R2D224K200AA	00 111	3225	2.00 ± 0.20	± 10%	CGJ6M4X7R2H683K200AA		
	100 pE	3216	1.60 ± 0.20	± 10%		CGJ5L3X7R2D104K160AA	CGJ5L2X7R2A104K160AA
150 nF 3225 2.00 ± 0.20 ± 10% CGJ6M3X7R2D154K200AA	100111	3225	2.00 ± 0.20	± 10%		CGJ6M3X7R2D104K200AA	
3225 2.00 ± 0.20 ± 10% CGJ6M3X7R2D154K200AA 220 nF 3216 1.15 ± 0.15 ± 10% CGJ6M3X7R2D224K200AA 3225 2.00 ± 0.20 ± 10% CGJ6M3X7R2D224K200AA 330 nF 3216 1.30 ± 0.20 ± 10% CGJ5K2X7R2A334K130AA	150 pF _	3216	1.60 ± 0.20	± 10%			CGJ5L2X7R2A154K160AA
220 nF 3225 2.00 ± 0.20 ± 10% CGJ6M3X7R2D224K200AA 330 nF 3216 1.30 ± 0.20 ± 10% CGJ5K2X7R2A334K130AA	130 111	3225	2.00 ± 0.20	± 10%		CGJ6M3X7R2D154K200AA	
3225 2.00 ± 0.20 ± 10% CGJ6M3X7R2D224K200AA 330 pF 3216 1.30 ± 0.20 ± 10% CGJ5K2X7R2A334K130AA	220 nF _	3216	1.15 ± 0.15	± 10%			CGJ5H2X7R2A224K115AA
330 nF	220111	3225	2.00 ± 0.20	± 10%		CGJ6M3X7R2D224K200AA	
3225 2.00 ± 0.20 ± 10% CGJ6M2X7R2A334K200AA	330 nF —	3216	1.30 ± 0.20	± 10%			CGJ5K2X7R2A334K130AA
		3225	2.00 ± 0.20	± 10%			CGJ6M2X7R2A334K200AA



Capacitance Range Table

Class 2 (Temperature Stable)

Temperature Characteristics: X7R(-55 to +125 $^{\circ}\text{C}\,,\,\pm15\%)$

Capacitance	Size	Thickness	Capacitance	Catalog Number	
Сараспансе		(mm)	Tolerance	Rated Voltage Edc: 500V	Rated Voltage Edc: 100V
470 nF -	3216	1.60 ± 0.20	± 10%		CGJ5L2X7R2A474K160AA
470 NF -	3225	2.00 ± 0.20	± 10%		CGJ6M2X7R2A474K200AA
680 nF	3225	1.60 ± 0.20	± 10%	CGJ6L2X7R2H684K160AA	
1 μF	3225	2.00 ± 0.20	± 10%		CGJ6M2X7R2A105K200AA

Class 2 (Temperature Stable)

Temperature Characteristics: X7S(-55 to +125 $^{\circ}$ C, ±22%)

Capacitance	Size	Thickness	Capacitance	Catalog Number
Capacitance	Size	(mm)	Tolerance	Rated Voltage Edc: 100V
33 nF	1608	0.80 ± 0.10	± 10%	CGJ3E3X7S2A333K080AA
47 nF	1608	0.80 ± 0.10	± 10%	CGJ3E3X7S2A473K080AA
68 nF	1608	0.80 ± 0.10	± 10%	CGJ3E3X7S2A683K080AA
100 nF	1608	0.80 ± 0.10	± 10%	CGJ3E3X7S2A104K080AA
330 nF	2012	1.25 ± 0.20	± 10%	CGJ4J3X7S2A334K125AA
470 nF	2012	1.25 ± 0.20	± 10%	CGJ4J3X7S2A474K125AA
1.5 µF	3216	1.60 ± 0.20	± 10%	CGJ5L3X7S2A155K160AA
3.3 µF	3225	2.00 ± 0.20	± 10%	CGJ6M3X7S2A335K200AA
4.7 μF	3225	2.00 ± 0.20	± 10%	CGJ6M3X7S2A475K200AA

Class 2 (Temperature Stable)

Temperature Characteristics: X7T(-55 to +125°C, +22/-33%)

Capacitance	Size	Thickness	Capacitance	Catalog Number	
Capacitance	Size	(mm)	Tolerance	Rated Voltage Edc: 500V	Rated Voltage Edc: 200V
22 nF	3216	1.15 ± 0.15	± 10%	CGJ5H4X7T2H223K115AA	
33 nF —	2012	1.25 ± 0.20	± 10%		CGJ4J3X7T2D333K125AA
33 HF -	3216	1.15 ± 0.15	± 10%	CGJ5H4X7T2H333K115AA	
47 nF —	2012	1.25 ± 0.20	± 10%		CGJ4J3X7T2D473K125AA
47 HF —	3216	1.60 ± 0.20	± 10%	CGJ5L4X7T2H473K160AA	
68 nF	2012	1.25 ± 0.20	± 10%		CGJ4J3X7T2D683K125AA
100 nF -	2012	1.25 ± 0.20	± 10%		CGJ4J3X7T2D104K125AA
100 11	3225	1.60 ± 0.20	± 10%	CGJ6L4X7T2H104K160AA	
150 nF -	3216	1.30 ± 0.20	± 10%		CGJ5K3X7T2D154K130AA
150 NF -	3225	2.00 ± 0.20	± 10%	CGJ6M4X7T2H154K200AA	
220 nF	3216	1.60 ± 0.20	± 10%		CGJ5L3X7T2D224K160AA
330 nF	3225	2.00 ± 0.20	± 10%		CGJ6M3X7T2D334K200AA
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CGA2B2C0G1H040C CGA2B2C0G1H050C CGA2B2C0G1H060D CGA2B2C0G1H070D CGA2B2C0G1H151J CGA2B2C0G1H1R5C

CGA2B2C0G1H2R2C CGA2B2C0G1H3R3C CGA2B2C0G1H680J CGA2B2C0G1H6R8D CGA2B2X8R1H221K CGA2B2X8R1H472K

CGA3E1X7R1C474K