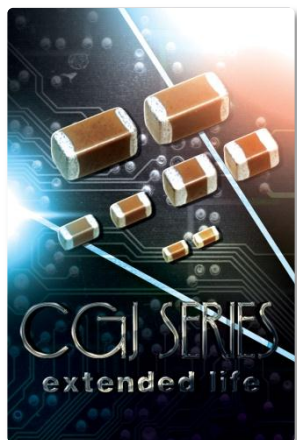


CGJ SERIES | High Reliability Grade

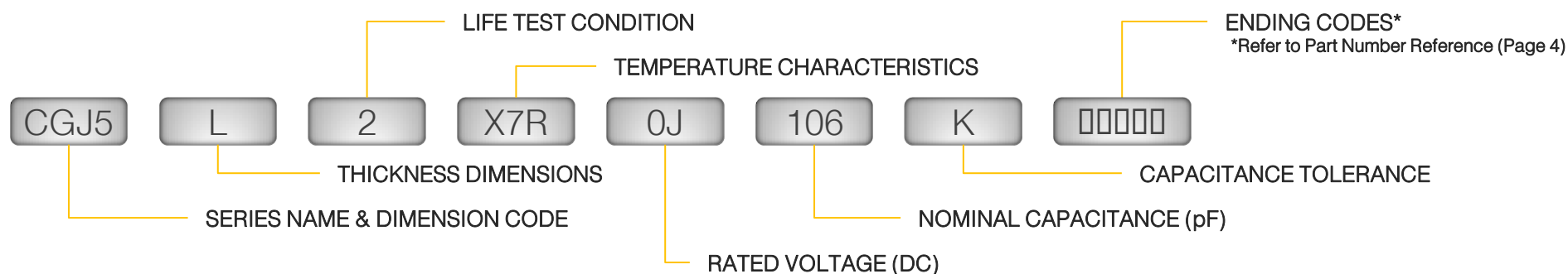


TDK's CGJ Series MLCC provides an extended life MLCC that meets electrical, mechanical, and environmental performance standards from multiple industry specifications. The enhanced reliability design allows its use in higher reliability applications in which maximum field life and the highest quality standards are required, as well as for applications demanding performance levels beyond typical commercial grade and automotive grade performance.

In addition to our highest quality MLCC's, the customer will also receive a Certificate of Compliance with each lot (which includes electrical characterization data and estimated product life) and anti-counterfeit packaging. Additionally, RFID (radio frequency identification) tags are available as an option. The Certificate of Compliance and Product Authentication are available on-line at TDK.com.

	Case Code	L (mm)	W (mm)	T (mm)
	CGJ2 / 0402	1.00	0.50	0.50
	CGJ3 / 0603	1.60	0.80	0.80
		2.00	1.25	0.60
	CGJ4 / 0805	2.00	1.25	0.85
		2.00	1.25	1.25
	CGJ5 / 1206	3.20	1.60	0.60
		3.20	1.60	0.85
		3.20	1.60	1.15
		3.20	1.60	1.60

Part Number Description



Features:

- ❖ Extensive testing to ensure higher reliability and longer life
- ❖ Reliability tests based on MIL-STD requirements
- ❖ Guaranteed TC Bias
- ❖ Certificate of Compliance documentation is provided for each CGJ lot. Consumers of CGJ products can view each lot specific CoA on the TDK website
- ❖ UHF (Ultra High Frequency) RFID tag to allow integration with customer RFID programs such as inventory management
- ❖ Tamper proof seal to assist in the identification of authentic TDK CGJ products. The condition of the seal also indicates if the product has been tampered with in the supply chain
- ❖ CGJ customer priority backed by TDK factory support (3/3/7)

Applications:

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

CGJ SERIES | High Reliability Grade / C0G

Capacitance (pF)	Cap Code	CGJ2 0402	CGJ3 0603				CGJ4 CC0805			CGJ5 1206			
		1H (50V)	2D (200V)	2A (100V)	1H (50V)	2D (200V)	2A (100V)	1H (50V)	2H (500V)	2D (200V)	2A (100V)	1H (50V)	
100	101												
120	121												
150	151												
180	181												
220	221												
270	271												
330	331												
390	391												
470	471												
560	561												
680	680												
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												
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												

 C0G

CGJ SERIES | High Reliability Grade / X7R, X7S, X7T

Capacitance (pF)	Cap Code	CGJ2 C1005/CC0402				CGJ3 0603					CGJ4 0805						
		1H (50V)	1E (25V)	1C (16V)	2A (100V)	1H (50V)	1E (25V)	1C (16V)	1A (10V)	0J (6.3V)	2D (200V)	2A (100V)	1H (50V)	1E (25V)	1C (16V)	1A (10V)	0J (6.3V)
1,000	102	■	■	■	■												
1,500	152																
2,200	222																
3,300	332																
4,700	472																
6,800	682	■	■	■	■						■						
10,000	103		■	■	■	■	■	■			■	■					
15,000	153										■	■					
22,000	223		■	■			■	■			■	■					
33,000	333				■						■	■	■	■	■		
47,000	473		■	■	■	■	■	■			■	■	■	■	■		
68,000	683			■	■						■			■	■		
100,000	104			■	■	■	■	■			■						
150,000	154																
220,000	224											■	■	■	■	■	■
330,000	334								■	■		■	■	■	■	■	■
470,000	474								■	■		■			■	■	■
680,000	684								■	■				■	■		■
1,000,000	105								■	■				■	■	■	■
1,500,000	155																
2,200,000	225																
3,300,000	335																
4,700,000	475															■	■

■ X7S ■ X7T ■ X7R

CGJ SERIES | High Reliability Grade / X7R, X7S, X7T

Capacitance (pF)	Cap Code	CGJ5 1206							CGJ6 1210		
		2H (500V)	2D (200V)	2A (100V)	1E (25V)	1C (16V)	1A (10V)	0J (6.3V)	2H (500V)	2D (200V)	2A (100V)
1,000	102										
1,500	152										
2,200	222										
3,300	332										
4,700	472										
6,800	682										
10,000	103										
15,000	153										
22,000	223										
33,000	333										
47,000	473										
68,000	683										
100,000	104										
150,000	154										
220,000	224										
330,000	334										
470,000	474										
680,000	684										
1,000,000	105										
1,500,000	155										
2,200,000	225										
3,300,000	335										
4,700,000	475										
6,800,000	685										
10,000,000	106										

X7R X7S X7T

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

TDK:

<u>CGJ6L4X7T2H104K</u>	<u>CGJ4J3X7S2A334K</u>	<u>CGJ3E3C0G2D121J</u>	<u>CGJ5L2X7R2A154K</u>	<u>CGJ5F4C0G2H471J</u>
<u>CGJ3E2X7R2A472K</u>	<u>CGJ3E3X7S2A104K</u>	<u>CGJ3E2C0G2A391J</u>	<u>CGJ5H3C0G2D472J</u>	<u>CGJ4C2C0G2A181J</u>
<u>CGJ5L3X7T2D224K</u>	<u>CGJ4F2C0G2A182J</u>	<u>CGJ5H2X7R2A333K</u>	<u>CGJ5H4X7R2H222K</u>	<u>CGJ3E3C0G2D471J</u>
<u>CGJ5K4X7R2H223K</u>	<u>CGJ3E3C0G2D271J</u>	<u>CGJ5L3C0G2D822J</u>	<u>CGJ3E2C0G2A221J</u>	<u>CGJ5H2C0G2A682J</u>
<u>CGJ4C2C0G2A122J</u>	<u>CGJ4J2C0G2A392J</u>	<u>CGJ5H4C0G2H152J</u>	<u>CGJ5H4X7R2H102K</u>	<u>CGJ5L3X7R2D473K</u>
<u>CGJ3E2X7R2A152K</u>	<u>CGJ5F3C0G2D332J</u>	<u>CGJ4C2C0G2A101J</u>	<u>CGJ5H4C0G2H682J</u>	<u>CGJ5K2X7R2A334K</u>
<u>CGJ4J2X7R2A153K</u>	<u>CGJ5H2X7R2A224K</u>	<u>CGJ4J3X7R2D103K</u>	<u>CGJ5C4C0G2H151J</u>	<u>CGJ4J2C0G2A332J</u>
<u>CGJ5H4C0G2H562J</u>	<u>CGJ3E2X7R2A332K</u>	<u>CGJ5K4X7R2H153K</u>	<u>CGJ5F2C0G2A562J</u>	<u>CGJ4C2C0G2A121J</u>
<u>CGJ5L4X7R2H333K</u>	<u>CGJ5L3X7R2D333K</u>	<u>CGJ3E3C0G2D391J</u>	<u>CGJ5C4C0G2H331J</u>	<u>CGJ4J3X7R2D682K</u>
<u>CGJ6M3X7S2A335K</u>	<u>CGJ4C2C0G2A561J</u>	<u>CGJ5L3X7S2A155K</u>	<u>CGJ5H4X7R2H682K</u>	<u>CGJ3E2X7R2A103K</u>
<u>CGJ3E2C0G2A121J</u>	<u>CGJ3E3C0G2D331J</u>	<u>CGJ3E2X7R2A102K</u>	<u>CGJ4C2C0G2A331J</u>	<u>CGJ6M2X7R2A105K</u>
<u>CGJ4F3C0G2D122J</u>	<u>CGJ5K3X7T2D154K</u>	<u>CGJ5L3C0G2D682J</u>	<u>CGJ5H3X7R2D223K</u>	<u>CGJ3E3X7S2A683K</u>
<u>CGJ6M4X7R2H683K</u>	<u>CGJ6M3X7R2D104K</u>	<u>CGJ3E2C0G2A681J</u>	<u>CGJ3E3C0G2D221J</u>	<u>CGJ4J2C0G2A272J</u>
<u>CGJ5L4C0G2H332J</u>	<u>CGJ5H2C0G2A822J</u>	<u>CGJ5L3X7R2D104K</u>	<u>CGJ3E2C0G2A561J</u>	<u>CGJ4J3X7T2D683K</u>
<u>CGJ5H4X7T2H333K</u>	<u>CGJ5H3C0G2D392J</u>	<u>CGJ5H4X7R2H472K</u>	<u>CGJ4J3C0G2D272J</u>	<u>CGJ4C2C0G2A471J</u>
<u>CGJ5C4C0G2H271J</u>	<u>CGJ6M4X7R2H473K</u>	<u>CGJ6M2X7R2A474K</u>	<u>CGJ4C2C0G2A152J</u>	<u>CGJ4F3C0G2D102J</u>
<u>CGJ6M2X7R2A334K</u>	<u>CGJ5L4C0G2H272J</u>	<u>CGJ3E3C0G2D681J</u>	<u>CGJ4C3C0G2D821J</u>	<u>CGJ4J2X7R2A223K</u>
<u>CGJ6M3X7S2A475K</u>	<u>CGJ6M4X7T2H154K</u>	<u>CGJ4J2X7R2A473K</u>	<u>CGJ5F2C0G2A472J</u>	<u>CGJ5L2X7R2A474K</u>
<u>CGJ4C2C0G2A271J</u>	<u>CGJ4J3X7T2D473K</u>	<u>CGJ3E3C0G2D151J</u>	<u>CGJ4C2C0G2A221J</u>	<u>CGJ6L2X7R2A684K</u>
<u>CGJ4C2C0G2A681J</u>	<u>CGJ6M3X7R2D154K</u>	<u>CGJ4C2C0G2A391J</u>	<u>CGJ3E2C0G2A122J</u>	<u>CGJ5H4X7T2H223K</u>