

## MULTILAYER CERAMIC CHIP CAPACITORS

# CGA Series Automotive Grade High Voltage (1000V and over)

Type:

CGA7 [EIA CC1808] CGA8 [EIA CC1812]

Issue date: Apr 2015







### REMINDERS

Please read before using this product

### SAFETY REMINDERS

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(Example)

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

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Please be sure to request delivery specifications that provide further details on the features and specifications of the products for proper and safe use.



### MULTILAYER CERAMIC CHIP CAPACITORS



# CGA7(4520) [EIA CC1808]

#### **Capacitance Range Chart**

Temperature Characteristics: C0G (0  $\pm$  30ppm/°C), X7R ( $\pm$ 15%) Rated Voltage: 3000V (3F), 2000V (3D), 1000V (3A)







#### **Capacitance Range Chart**

Temperature Characteristics: C0G (0  $\pm$  30ppm/°C), X7R ( $\pm$ 15%) Rated Voltage: 3000V (3F), 2000V (3D), 1000V (3A)

Conseitence			C0G	X7R		
(pF)	Code	Tolerance	3F (3KV)	3D (2KV)	3A (1KV)	
100	101	K: ± 10%				
120	121	M: ± 20%				
150	151					Standard Thickness
180	181					1.30 mm
220	221					1.60 mm
270	271					1.00 11111
330	331					2.00 mm
2,200	222					2.30 mm
4,700	472					0.50 mm
10,000	103					2.50 mm

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#### **Class 1 (Temperature Compensating)**

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

Canacitanaa	Size	Thickness (mm)	Capacitance Tolerance	Catalog Number		
Capacitance				Rated Voltage Edc: 3KV	Rated Voltage Edc: 2KV	Rated Voltage Edc: 1KV
10 pF	4520	0.85 ± 0.15	± 1pF	CGA7F1C0G3F100F085KA		
12 pF	4520	0.85 ± 0.15	± 10%	CGA7F1C0G3F120K085KA		
15 pF	4520	1.10 ± 0.20	± 10%	CGA7G1C0G3F150K110KA		
18 pF	4520	1.10 ± 0.20	± 10%	CGA7G1C0G3F180K110KA		
22 pF	4520	1.10 ± 0.20	± 10%	CGA7G1C0G3F220K110KA		
27 pF	4520	1.60 ± 0.20	± 10%	CGA7L1C0G3F270K160KA		
33 pF	4520	1.60 ± 0.20	± 10%	CGA7L1C0G3F330K160KA		
39 pF	4520	1.60 ± 0.20	± 10%	CGA7L1C0G3F390K160KA		
47 pF	4520	1.60 ± 0.20	± 10%	CGA7L1C0G3F470K160KA		
56 pF	4520	2.00 ± 0.20	± 10%	CGA7M1C0G3F560K200KA		
68 pF	4520	2.00 ± 0.20	± 10%	CGA7M1C0G3F680K200KA		
82 pF	4520	2.00 ± 0.20	± 10%	CGA7M1C0G3F820K200KA		
100 pF	4520	2.00 ± 0.20	± 10%	CGA7M1C0G3F101K200KA		
	4532	1.60 ± 0.20	± 10%	CGA8L1C0G3F101K160KA		
120 pF	4532	1.60 ± 0.20	± 10%	CGA8L1C0G3F121K160KA		
150 pF	4532	1.60 ± 0.20	± 10%	CGA8L1C0G3F151K160KA		
180 pF	4532	1.60 ± 0.20	± 10%	CGA8L1C0G3F181K160KA		
220 pF	4532	$2.00 \pm 0.20$	± 10%	CGA8M1C0G3F221K200KA		
270 pF	4532	2.30 ± 0.20	± 10%	CGA8N1C0G3F271K230KA		
330 pF	4532	2.50 ± 0.30	± 10%	CGA8P1C0G3F331K250KA		

#### Class 2 (Temperature Stable)

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

Capacitance	Size	Thickness (mm)	Capacitance Tolerance	Catalog Number		
				Rated Voltage Edc: 3KV	Rated Voltage Edc: 2KV	Rated Voltage Edc: 1KV
470 pF 4	45.00	1.30 ± 0.20	± 10%		CGA7K1X7R3D471K130KA	CGA7K1X7R3A471K130KA
	4320		± 20%		CGA7K1X7R3D471M130KA	CGA7K1X7R3A471M130KA
1 nF 4	45.00	1.30 ± 0.20	± 10%		CGA7K1X7R3D102K130KA	CGA7K1X7R3A102K130KA
	4320		± 20%		CGA7K1X7R3D102M130KA	CGA7K1X7R3A102M130KA
2.2 nF 4	4522	1.30 ± 0.20	± 10%		CGA8K1X7R3D222K130KA	
	4002		± 20%		CGA8K1X7R3D222M130KA	
4.7 nF	4532	1.60 ± 0.20	± 10%			CGA8L1X7R3A472K160KA
			± 20%			CGA8L1X7R3A472M160KA
10 nF	4532	2.00 ± 0.20	± 10%			CGA8M1X7R3A103K200KA
			± 20%			CGA8M1X7R3A103M200KA

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