

August 2016

MULTILAYER CERAMIC CHIP CAPACITORS



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

Type:

CGA6 [EIA CC1210] CGA7 [EIA CC1808] CGA8 [EIA CC1812] CGA9 [EIA CC2220]

REMINDERS

Please read before using this product

SAFETY REMINDERS

▲ REMINDERS

- 1. If you intend to use a product listed in this catalog for a purpose that may cause loss of life or other damage, you must contact our company's sales window.
- 2. We may modify products or discontinue production of a product listed in this catalog without prior notification.
- 3. We provide "Delivery Specification" that explain precautions for the specifications and safety of each product listed in this catalog. We strongly recommend that you exchange these delivery specifications with customers that use one of these products.
- 4. If you plan to export a product listed in this catalog, keep in mind that it may be a restricted item according to the "Foreign Exchange and Foreign Trade Control Law". In such cases, it is necessary to acquire export permission in harmony with this law.
- 5. Any reproduction or transferring of the contents of this catalog is prohibited without prior permission from our company.
- 6. We are not responsible for problems that occur related to the intellectual property rights or other rights of our company or a third party when you use a product listed in this catalog. We do not grant license of these rights.
- 7. This catalog only applies to products purchased through our company or one of our company's official agencies.This catalog does not apply to products that are purchased through other third parties.

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)

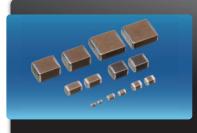
Catalog Issued date	Catalog Number	Item Description (On Delivery Label)
Prior to January 2013	C1608C0G1E103J(080AA)	C1608C0G1E103JT000N
January 2013 and Later	C1608C0G1E103J080AA	C1608C0G1E103JT000N

公TDK

⊗TDK

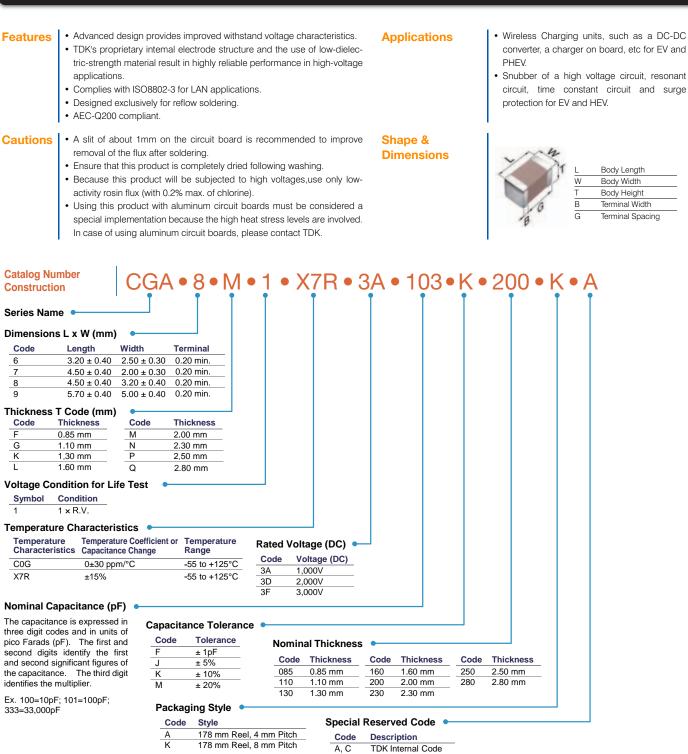
(1/4)

Ecological



CGA Series Lead RoHS High Voltage (1000V and over)

Type: CGA6 [EIA CC1210], CGA7 [EIA CC1808], CGA8 [EIA CC1812], CGA9 [EIA CC2220]



A 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.

⊗TDK

(2/4)

Capacitance **Range Chart**

CGA6(3225) [EIA CC1210]

Capacitance Range Chart

Temperature Characteristics: C0G (0±30ppm/°C)

Rated Voltage: 1KV (3A)

Rated volta	ige. In t	7 (SA)		
Capacitan	Capacitance		C0G	
(pF)	Code	Tolerance	3A (1KV)	
1,000	102	J: ± 5%		
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			o
10,000	103			Standard Thickness
12,000	123			2.00 mm
15,000	153	-		2.30 mm
18,000	183	-		
22,000	223			2.50 mm

Capacitance Range Chart

Capacitance Range Chart

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

[0	01 (01), 20001	. ,.	. ,		
Capacitance		- .	C0G	X7R		
(pF)	Code	Tolerance	3F (3KV)	3D (2KV)	3A (1KV)	
10	100	F: ± 1pF				
12	120	K: ± 10%				
15	150					
18	180					
22	220					
27	270					
33	330					
39	390					Standard Thickness
47	470					0.85 mm
56	560					
68	680					1.10 mm
82	820		_			1.30 mm
100	101					1.60 mm
470	471	K: ± 10%				
1,000	102	M: ± 20%				2.00 mm

CGA7(4520) [EIA CC1808]

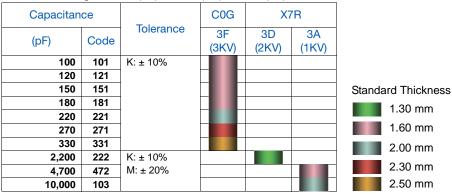
Please be sure to request delivery specifications that provide further details on the features and specifications of the products for proper and safe use. Please note that the contents may change without any prior notice due to reasons such as upgrading.

⊗TDK

Capacitance Range Chart

Capacitance Range Chart

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



Capacitance Range Chart

Capacitance Range Chart

Temperature Characteristics: C0G (0±30ppm/°C)

Rated Voltage: 1KV (3A)

Capacitan	се		C0G
(pF)	Code	Tolerance	3A (1KV)
10,000	103	J: ± 5%	
12,000	123		
15,000	153		
18,000	183		
22,000	223		
27,000	273		
33,000	333		

Standard Thickness 2.80 mm

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.

CGA8(4532) [EIA CC1812]



Capacitance Range Table

Class 1 (Temperature Compensating)

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

					-)
Capacitance	Size	Thickness (mm)	Capacitance _ Tolerance	-	
10 - 5	4520	· ,		Rated VoltageEdc : 3KV CGA7F1C0G3F100F085KA	Rated VoltageEdc : 1KV
10 pF	4520	0.85 ± 0.15	± 1pF ± 10%		
12 pF		0.85 ± 0.15		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	
100 pi	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 ± 0.20	± 10%	CGA8M1C0G3F221K200KA	
270 pF	4532	2.30 ± 0.20	± 10%	CGA8N1C0G3F271K230KA	
330 pF	4532	2.50 ± 0.30	± 10%	CGA8P1C0G3F331K250KA	
1 nF	3225	2.00 ± 0.20	± 5%		CGA6M1C0G3A102J200A0
1.2 nF	3225	2.00 ± 0.20	± 5%		CGA6M1C0G3A122J200A0
1.5 nF	3225	2.00 ± 0.20	± 5%		CGA6M1C0G3A152J200A0
1.8 nF	3225	2.00 ± 0.20	± 5%		CGA6M1C0G3A182J200A0
2.2 nF	3225	2.00 ± 0.20	± 5%		CGA6M1C0G3A222J200A0
2.7 nF	3225	2.00 ± 0.20	± 5%		CGA6M1C0G3A272J200A0
3.3 nF	3225	2.00 ± 0.20	± 5%		CGA6M1C0G3A332J200A0
3.9 nF	3225	2.00 ± 0.20	± 5%		CGA6M1C0G3A392J200A0
4.7 nF	3225	2.00 ± 0.20	± 5%		CGA6M1C0G3A472J200A0
5.6 nF	3225	2.00 ± 0.20	± 5%		CGA6M1C0G3A562J200A0
6.8 nF	3225	2.00 ± 0.20	± 5%		CGA6M1C0G3A682J200A0
8.2 nF	3225	2.30 ± 0.20	± 5%		CGA6N1C0G3A822J230A0
0.2 11	3225	2.50 ± 0.20	± 5%		CGA6P1C0G3A103J250A0
10 nF —	5750	2.80 ± 0.30	± 5%		CGA9Q1C0G3A103J280K0
	3225	2.50 ± 0.30	± 5%		CGA6P1C0G3A123J250A0
12 nF —					CGA9Q1C0G3A123J280K0
	5750	2.80 ± 0.30	± 5%		
15 nF —	3225	2.50 ± 0.30	± 5%		CGA6P1C0G3A153J250A0
5	5750	2.80 ± 0.30	± 5%		CGA9Q1C0G3A153J280K0
18 nF	3225	2.50 ± 0.30	± 5%		CGA6P1C0G3A183J250A0
	5750	2.80 ± 0.30	± 5%		CGA9Q1C0G3A183J280K0
22 nF —	3225	2.50 ± 0.30	± 5%		CGA6P1C0G3A223J250A0
	5750	2.80 ± 0.30	± 5%		CGA9Q1C0G3A223J280K0
27 nF	5750	2.80 ± 0.30	± 5%		CGA9Q1C0G3A273J280K0
33 nF	5750	2.80 ± 0.30	± 5%		CGA9Q1C0G3A333J280K0

Class 2 (Temperature Stable)

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

Capacitance Size	Thickness	Capacitance _ Tolerance	Catalog Number		
	(mm)		Rated VoltageEdc : 2KV	Rated VoltageEdc : 1KV	
470 pF 4520	4520	1.30 ± 0.20	± 10%	CGA7K1X7R3D471K130KA	CGA7K1X7R3A471K130KA
	1.30 ± 0.20	± 20%	CGA7K1X7R3D471M130KA	CGA7K1X7R3A471M130KA	
1 nF 4520	1.30 ± 0.20	± 10%	CGA7K1X7R3D102K130KA	CGA7K1X7R3A102K130KA	
	1.30 ± 0.20	± 20%	CGA7K1X7R3D102M130KA	CGA7K1X7R3A102M130KA	
2.2 nF	4532	1.30 ± 0.20	± 10%	CGA8K1X7R3D222K130KA	
2.2 IIF 4532	1.30 ± 0.20	± 20%	CGA8K1X7R3D222M130KA		
4.7 nF 4532	4520	1.60 ± 0.20	± 10%		CGA8L1X7R3A472K160KA
	1.00 ± 0.20	± 20%		CGA8L1X7R3A472M160KA	
10 nF 4532	4522	2.00 ± 0.20	± 10%		CGA8M1X7R3A103K200KA
	4032	4002 2.00 ± 0.20	± 20%		CGA8M1X7R3A103M200KA

A 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.

⊗TDK

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for Multilayer Ceramic Capacitors MLCC - SMD/SMT category:

Click to view products by TDK manufacturer:

Other Similar products are found below :

M39014/02-1225V M39014/22-0631 D55342E07B523DR-T/R NCA1206X7R103K50TRPF NCA1206X7R104K16TRPF NIN-FB391JTRF NIN-FC2R7JTRF NMC0201X5R474K4TRPF NMC0402NPO220J50TRPF NMC0402X5R105K6.3TRPF NMC0402X5R224K6.3TRPF NMC0402X7R103J25TRPF NMC0402X7R153K16TRPF NMC0603NPO1R8C50TRPF NMC0603NPO201J50TRPF NMC0603NPO330G50TRPF NMC0603X5R475M6.3TRPF NMC0805NPO270J50TRPF NMC0805NPO820J50TRPF NMC0805X7R224K16TRPLPF NMC0805X7R224K25TRPF NMC1206X7R102K50TRPF NMC-H0805X7R472K250TRPF NMC-L0402NPO7R0C50TRPF NMC-L0603NPO2R2B50TRPF NMC-P0805NPO221J500TRPLPF NMC-Q0402NPO8R2D200TRPF C1206C101J1GAC C1608C0G2A221J C1608X7R1E334K C2012C0G2A472J 2220J2K00562KXT 1812J2K00332KXT CDR31BX103AKWR CDR33BX104AKUR CDR33BX683AKUS CGA2B2C0G1H010C CGA2B2C0G1H040C CGA2B2C0G1H050C CGA2B2C0G1H060D CGA2B2C0G1H070D CGA2B2C0G1H120J CGA2B2C0G1H151J CGA2B2C0G1H181JT0Y0F CGA2B2C0G1H1R5C CGA2B2C0G1H2R2C CGA2B2C0G1H390J CGA2B2C0G1H391J CGA2B2C0G1H3R3C CGA2B2C0G1H680J