

MULTILAYER CERAMIC CHIP CAPACITORS

CGA3EA Series Automotive Grade ESD Protection

Case size:

1608 [EIA CC0603]

Issue date: Dec 2014







REMINDERS

Please read before using this product

SAFETY 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	C1608C0G1E103JT000N
January 2013 and Later	C1608C0G1E103J080AA	C1608C0G1E103JT000N

⇔TDK

MULTILAYER CERAMIC CHIP CAPACITORS

Lead

Free

RoHS

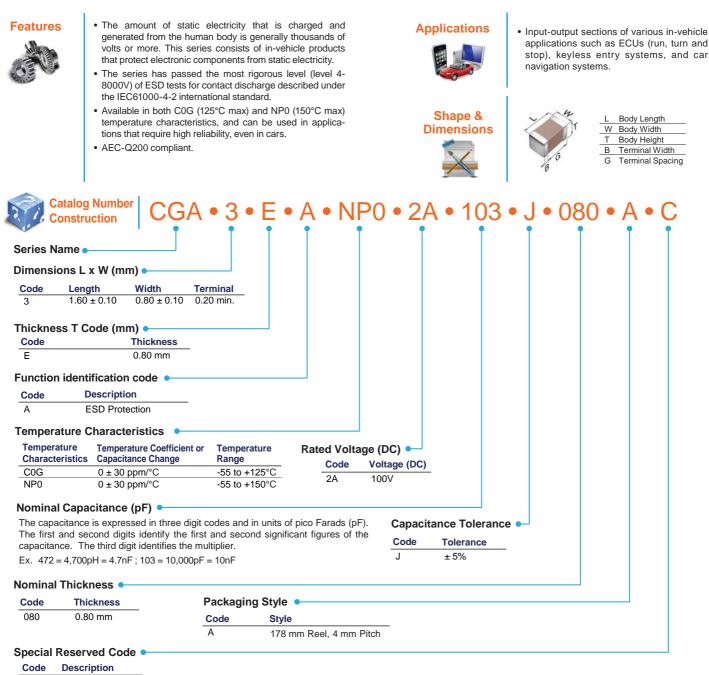
Ecological



CGA3EA Series

ESD Protection

Case size: 1608 [EIA CC0603]



A, C TDK Internal Code



MULTILAYER CERAMIC CHIP CAPACITORS



EIA CC0603 [1608]

Capacitance Range Chart

Temperature Characteristics: C0G (0 ± 30ppm/°C)、 NP0 (0 ± 30ppm/°C) Rated Voltage: 100V(2A)

Capacitance (pF)			C0G	NP0	ESD Resistance	
	Code	Tolerance	2A (100V)	2A (100V)	(V)	
1,000	102	J:±5%			8,000	
1,500	152				10,000	
2,200	222				12,000	
3,300	332				16,000	
4,700	472				16,000	Standard Thickness
6,800	682				22,000	
10,000	103				30,000	0.80 mm



Class 1 (Temperature Compensating)

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

Capacitance Size	Thickness	Capacitance	ESD Resistance	Catalog Number	
	Size	Size (mm)	Tolerance	(V)	Rated Voltage Edc: 100V
1nF	1608	0.80 ± 0.10	±5%	8,000	CGA3EAC0G2A102J080AA
1.5nF	1608	0.80 ± 0.10	±5%	10,000	CGA3EAC0G2A152J080AC
2.2nF	1608	0.80 ± 0.10	±5%	12,000	CGA3EAC0G2A222J080AC
3.3nF	1608	0.80 ± 0.10	±5%	16,000	CGA3EAC0G2A332J080AC
4.7nF	1608	0.80 ± 0.10	±5%	16,000	CGA3EAC0G2A472J080AC
6.8nF	1608	0.80 ± 0.10	±5%	22,000	CGA3EAC0G2A682J080AC
10nF	1608	0.80 ± 0.10	±5%	30,000	CGA3EAC0G2A103J080AC

Class 1 (Temperature Compensating)

Temperature Characteristics: NP0 (-55 to +150°C, 0±30 ppm/°C)

Capacitance Size	Thickness	Capacitance	ESD Resistance	Catalog Number	
	Size	512e (mm)	Tolerance	(V)	Rated Voltage Edc: 100V
1nF	1608	0.80 ± 0.10	±5%	8,000	CGA3EANP02A102J080AA
1.5nF	1608	0.80 ± 0.10	±5%	10,000	CGA3EANP02A152J080AC
2.2nF	1608	0.80 ± 0.10	±5%	12,000	CGA3EANP02A222J080AC
3.3nF	1608	0.80 ± 0.10	±5%	16,000	CGA3EANP02A332J080AC
4.7nF	1608	0.80 ± 0.10	±5%	16,000	CGA3EANP02A472J080AC
6.8nF	1608	0.80 ± 0.10	±5%	22,000	CGA3EANP02A682J080AC
10nF	1608	0.80 ± 0.10	±5%	30,000	CGA3EANP02A103J080AC