

MULTILAYER CERAMIC CHIP CAPACITORS

Automotive grade, mid voltage (100 to 630V)

CGA series

CGA2 **1005 [0402 inch]**

CGA3 **1608 [0603 inch]**

CGA4 **2012 [0805 inch]**

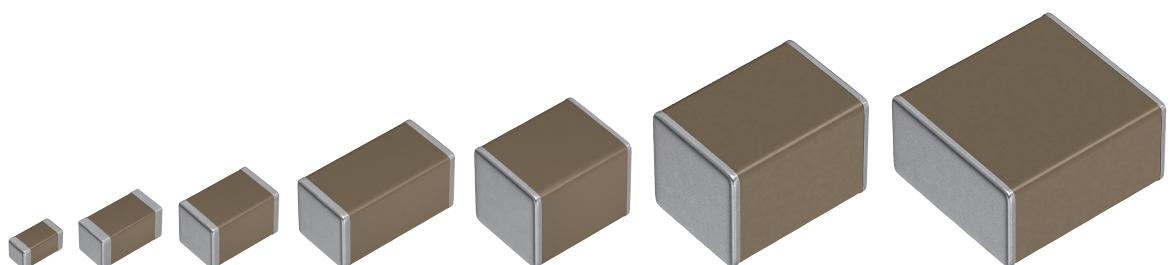
CGA5 **3216 [1206 inch]**

CGA6 **3225 [1210 inch]**

CGA8 **4532 [1812 inch]**

CGA9 **5750 [2220 inch]**

* Dimensions code: JIS[EIA]



REMINDERS FOR USING THESE PRODUCTS

Before using these products, be sure to request the delivery specifications.

SAFETY REMINDERS

Please pay sufficient attention to the warnings for safe designing when using this products

REMINDERS

- The products listed in this specification are intended for use in automotive applications under normal operation and usage conditions. The products are not designed or warranted to meet the requirements of the applications listed below, whose performance and/or quality requires a more stringent level of safety or reliability, or whose failure, malfunction or defect could cause serious damage to society, person or property.

Please understand that we are not responsible for any damage or liability caused by use of the products in any of the applications below or for any other use exceeding the range or conditions set forth in this specification sheet. If you intend to use the products in the applications listed below or if you have special requirements exceeding the range or conditions set forth in this specification, please contact us.

- | | |
|--|--|
| (1) Aerospace/aviation equipment | (7) Transportation control equipment |
| (2) Transportation equipment (electric trains, ships, etc.) | (8) Public information-processing equipment |
| (3) Medical equipment (excepting Pharmaceutical Affairs Law classification Class1,2) | (9) Military equipment |
| (4) Power-generation control equipment | (10) Electric heating apparatus, burning equipment |
| (5) Atomic energy-related equipment | (11) Disaster prevention/crime prevention equipment |
| (6) Seabed equipment | (12) Safety equipment |
| | (13) Other applications that are not considered general-purpose applications |

When designing your equipment involving the Products, you are kindly requested to take into consideration securing protection circuit/equipment or providing backup circuits, etc. in your equipment, to ensure higher safety.

- We may modify products or discontinue production of a product listed in this catalog without prior notification.
- 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.
- 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.
- Any reproduction or transferring of the contents of this catalog is prohibited without prior permission from our company.
- 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.
- 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

 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.

CGA series

Mid voltage (100 to 630V)



Type: CGA2/1005 [0402 inch], CGA3/1608 [0603 inch], CGA4/2012 [0805 inch],
 CGA5/3216 [1206 inch], CGA6/3225 [1210 inch], CGA8/4532 [1812 inch],
 CGA9/5750 [2220 inch]

SERIES OVERVIEW

Automotive grade medium voltage CGA series is a product that supports circuits to which high voltages with rated voltages of 100 to 630V are applied. The maximum capacitance value is 15μF.

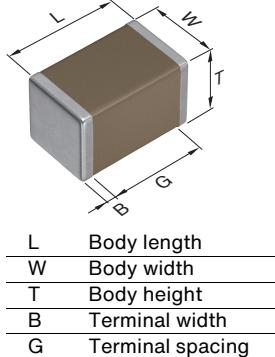
FEATURES

- Voltage rating: 100V, 250V, 450V, 630V
- Operating temperature range: -55~+125°C
- C0G temperature characteristic which has excellent stable temperature and DC-bias characteristics is applicable.
- Qualified based on AEC-Q200.

APPLICATION

- Wireless Charging units, DC-DC converter, inverter, a charger on board, etc.
- High voltage circuit decoupling, smoothing, and snubber, resonant circuit, etc.

SHAPE & DIMENSIONS

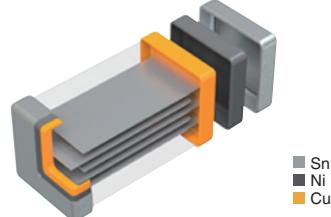


Dimensions in mm

Type	L	W	T	B	G
CGA2	1.00±0.05	0.50±0.05	0.50±0.05	0.10 min.	0.30 min.
CGA3	1.60±0.10	0.80±0.10	0.80±0.10	0.20 min.	0.30 min.
CGA4	2.00±0.20	1.25±0.20	1.25±0.20	0.20 min.	0.50 min.
CGA5	3.20±0.20	1.60±0.20	1.60±0.20	0.20 min.	1.00 min.
CGA6	3.20±0.40	2.50±0.30	2.50±0.30	0.20 min.	-
CGA8	4.50±0.40	3.20±0.40	2.50±0.30	0.20 min.	-
CGA9	5.70±0.40	5.00±0.40	2.50±0.30	0.20 min.	-

* Dimensional tolerances are typical values.

PRODUCT STRUCTURE



The structure which multilayer dielectrics and inner electrodes are stacked alternately. The monolithic and simple structure contributes to superior mechanical strength and excellent frequency characteristics.

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.

MULTILAYER CERAMIC CHIP CAPACITORS

CATALOG NUMBER CONSTRUCTION

CGA	5	L	1	X7R	2A	475	K	160	A	C
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)

(1)Series

(2)Dimensions L x W (mm)

Code	EIA	Length	Width	Terminal width
2	CC0402	1.00	0.50	0.10
3	CC0603	1.60	0.80	0.20
4	CC0805	2.00	1.25	0.20
5	CC1206	3.20	1.60	0.20
6	CC1210	3.20	2.50	0.20
8	CC1812	4.50	3.20	0.20
9	CC2220	5.70	5.00	0.20

(3)Thickness code

Code	Thickness
B	0.50 mm
C	0.60 mm
E	0.80 mm
F	0.85 mm
H	1.15 mm
J	1.25 mm
K	1.30 mm
L	1.60 mm
M	2.00 mm
N	2.30 mm
P	2.50 mm
Q	2.80 mm
R	3.20 mm

(4)Voltage condition for life test

Symbol	Condition
1	1 x R.V.
2	2 x R.V.
3	1.5 x R.V.
4	1.2 x R.V.

(5)Temperature characteristics

Temperature characteristics	Temperature coefficient or capacitance change	Temperature range
C0G	0±30 ppm/°C	-55 to +125°C
X7R	±15%	-55 to +125°C
X7S	±22%	-55 to +125°C
X7T	+22,-33%	-55 to +125°C

(6)Rated voltage (DC)

Code	Voltage (DC)
2A	100V
2E	250V
2W	450V
2J	630V

(7)Nominal capacitance (pF)

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 significant figures of the capacitance. The third digit identifies the multiplier. R designates a decimal point.

(Example) 0R5 = 0.5pF

101 = 100pF

225 = 2,200,000pF = 2.2μF

(8)Capacitance tolerance

Code	Tolerance
C	±0.25pF
D	±0.50pF
J	±5%
K	±10%
M	±20%

(9)Thickness

Code	Thickness
050	0.50 mm
060	0.60 mm
080	0.80 mm
085	0.85 mm
115	1.15 mm
125	1.25 mm
130	1.30 mm
160	1.60 mm
200	2.00 mm
230	2.30 mm
250	2.50 mm
280	2.80 mm
320	3.20 mm

(10)Packaging style

Code	Style
A	178mm reel, 4mm pitch
B	178mm reel, 2mm pitch
K	178mm reel, 8mm pitch

(11)Special reserved code

Code	Description
A,B,C,N	TDK internal code

Capacitance range chart

CGA2/1005 [0402 inch]

Capacitance (pF)	Code	COG 2A (100V)	X7S 2A (100V)
100	101		
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		
1,500	152		
2,200	222		
3,300	332		
4,700	472		
6,800	682		
10,000	103		

Standard thickness  0.50 mm Background gray: These products are not recommended for new designs. Click the charts for details. For details such as the catalog numbers, please refer to the capacitance range table on page 11 and after.

MULTILAYER CERAMIC CHIP CAPACITORS

Capacitance range chart

CGA3/1608 [0603 inch]

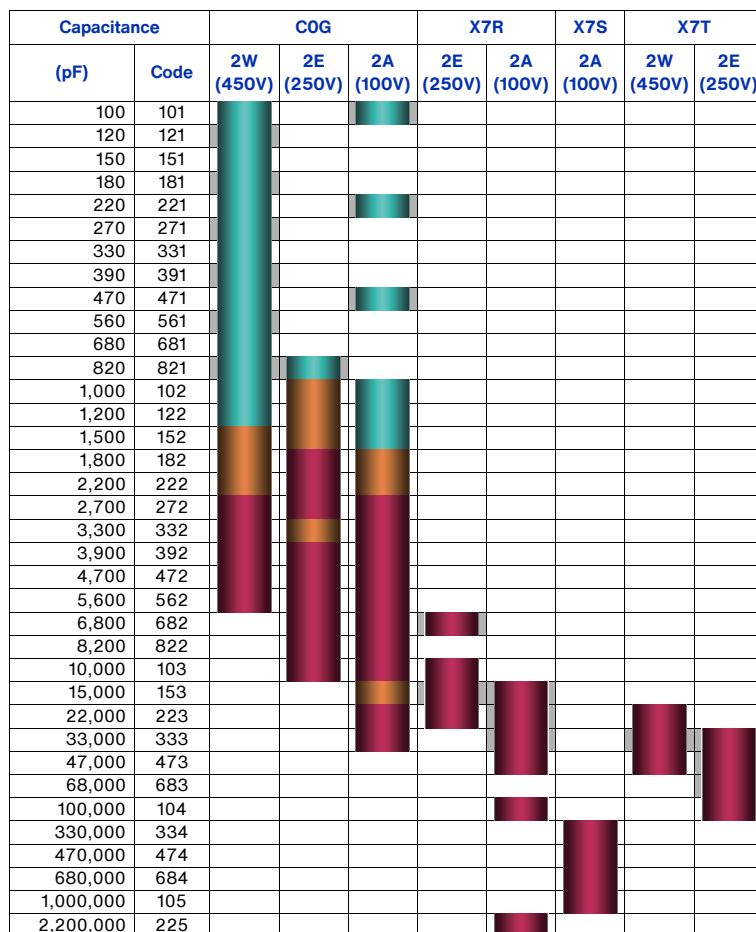
Capacitance		COG		X7R	X7S
(pF)	Code	2E (250V)	2A (100V)	2A (100V)	2A (100V)
1	010				
1.5	1R5				
2	020				
2.2	2R2				
3	030				
3.3	3R3				
4	040				
4.7	4R7				
5	050				
6	060				
6.8	6R8				
7	070				
8	080				
9	090				
10	100				
12	120				
15	150				
18	180				
22	220				
27	270				
33	330				
39	390				
47	470				
56	560				
68	680				
82	820				
100	101				
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				
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				

Standard thickness  0.80 mm Background gray: These products are not recommended for new designs. Click the charts for details. For details such as the catalog numbers, please refer to the capacitance range table on page 11 and after.

MULTILAYER CERAMIC CHIP CAPACITORS

Capacitance range chart

CGA4/2012 [0805 inch]



Standard thickness 0.60 mm 0.85 mm 1.25 mm

Background gray: These products are not recommended for new designs.

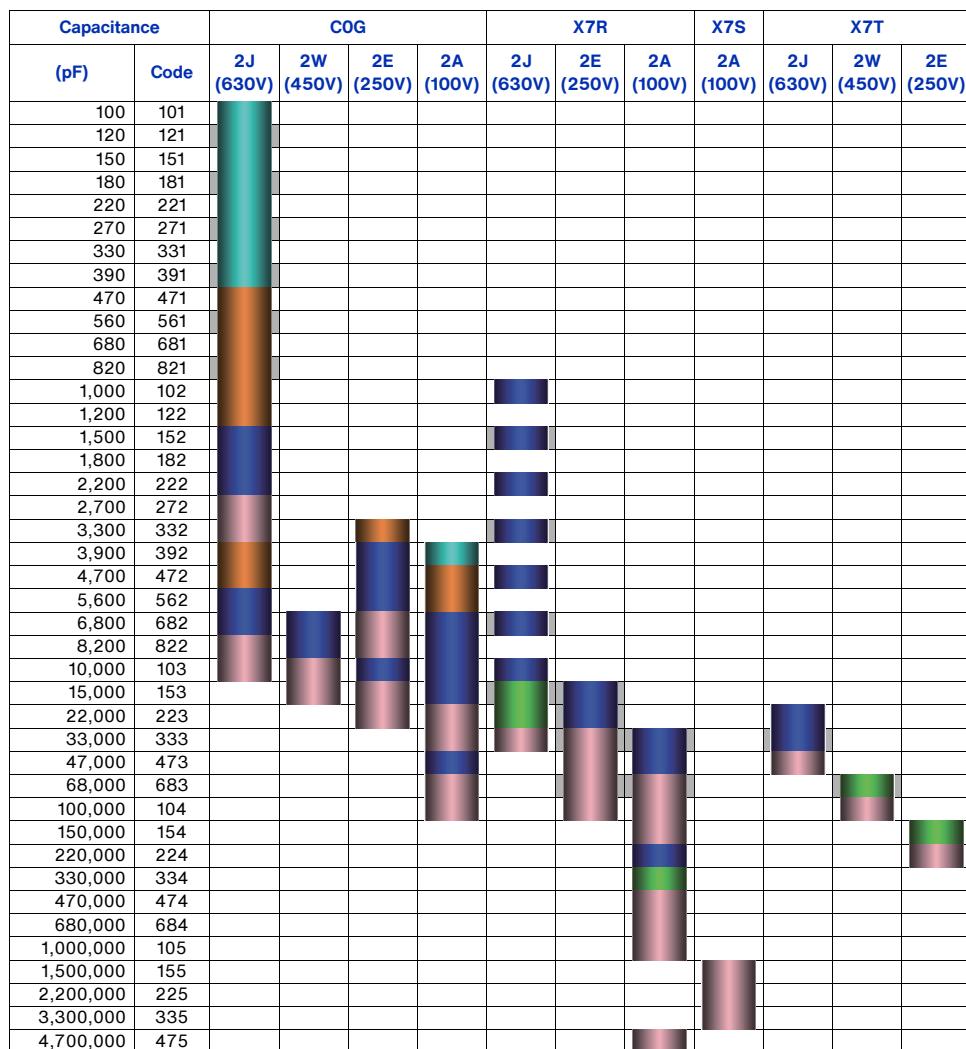
Click the charts for details.

For details such as the catalog numbers, please refer to the capacitance range table on page 11 and after.

MULTILAYER CERAMIC CHIP CAPACITORS

Capacitance range chart

CGA5/3216 [1206 inch]



Standard thickness 0.60 mm 0.85 mm 1.15 mm 1.30 mm 1.60 mm

Background gray: These products are not recommended for new designs.

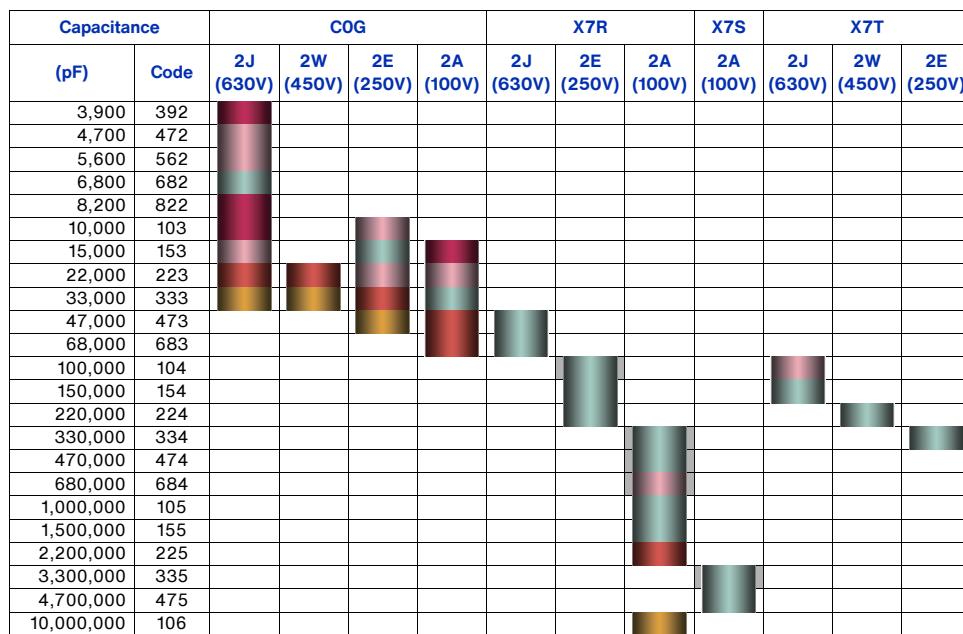
■ Click the charts for details.

■ For details such as the catalog numbers, please refer to the capacitance range table on page 11 and after.

MULTILAYER CERAMIC CHIP CAPACITORS

Capacitance range chart

CGA6/3225 [1210 inch]



Standard thickness █ 1.25 mm █ 1.60 mm █ 2.00 mm █ 2.30 mm █ 2.50 mm

█ Background gray: These products are not recommended for new designs.

■ Click the charts for details.

■ For details such as the catalog numbers, please refer to the capacitance range table on page 11 and after.

MULTILAYER CERAMIC CHIP CAPACITORS

Capacitance range chart

CGA8/4532 [1812 inch]

Capacitance (pF)	Code	COG				X7R			X7S	X7T		
		2J (630V)	2W (450V)	2E (250V)	2A (100V)	2J (630V)	2E (250V)	2A (100V)	2A (100V)	2J (630V)	2W (450V)	2E (250V)
8,200	822											
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											

Standard thickness 1.60 mm 2.00 mm 2.30 mm 2.50 mm 3.20 mm

Background gray: These products are not recommended for new designs.

Click the charts for details.

For details such as the catalog numbers, please refer to the capacitance range table on page 11 and after.

Capacitance range chart

CGA9/5750 [2220 inch]

Capacitance (pF)	Code	COG				X7R			X7S	X7T		
		2J (630V)	2W (450V)	2E (250V)	2A (100V)	2J (630V)	2E (250V)	2A (100V)	2A (100V)	2J (630V)	2W (450V)	2E (250V)
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											
15,000,000	156											

Standard thickness 1.60 mm 2.00 mm 2.30 mm 2.50 mm 2.80 mm

Background gray: These products are not recommended for new designs.

Click the charts for details.

For details such as the catalog numbers, please refer to the capacitance range table on page 11 and after.

MULTILAYER CERAMIC CHIP CAPACITORS



Capacitance range table

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

Capacitance	Dimensions	Thickness (mm)	Capacitance tolerance	Catalog number			
				Rated voltage Edc: 630V	Rated voltage Edc: 450V	Rated voltage Edc: 250V	Rated voltage Edc: 100V
1pF	1608	0.80±0.10	±0.25pF				CGA3E2C0G2A010C080AA
1.5pF	1608	0.80±0.10	±0.25pF				CGA3E2C0G2A1R5C080AA
2pF	1608	0.80±0.10	±0.25pF				CGA3E2C0G2A020C080AA
2.2pF	1608	0.80±0.10	±0.25pF				CGA3E2C0G2A2R2C080AA
3pF	1608	0.80±0.10	±0.25pF				CGA3E2C0G2A030C080AA
3.3pF	1608	0.80±0.10	±0.25pF				CGA3E2C0G2A3R3C080AA
4pF	1608	0.80±0.10	±0.25pF				CGA3E2C0G2A040C080AA
4.7pF	1608	0.80±0.10	±0.25pF				CGA3E2C0G2A4R7C080AA
5pF	1608	0.80±0.10	±0.25pF				CGA3E2C0G2A050C080AA
6pF	1608	0.80±0.10	±0.50pF				CGA3E2C0G2A060D080AA
6.8pF	1608	0.80±0.10	±0.50pF				CGA3E2C0G2A6R8D080AA
7pF	1608	0.80±0.10	±0.50pF				CGA3E2C0G2A070D080AA
8pF	1608	0.80±0.10	±0.50pF				CGA3E2C0G2A080D080AA
9pF	1608	0.80±0.10	±0.50pF				CGA3E2C0G2A090D080AA
10pF	1608	0.80±0.10	±0.50pF				CGA3E2C0G2A100D080AA
12pF	1608	0.80±0.10	±5%				CGA3E2C0G2A120J080AA
15pF	1608	0.80±0.10	±5%				CGA3E2C0G2A150J080AA
18pF	1608	0.80±0.10	±5%				CGA3E2C0G2A180J080AA
22pF	1608	0.80±0.10	±5%				CGA3E2C0G2A220J080AA
27pF	1608	0.80±0.10	±5%				CGA3E2C0G2A270J080AA
33pF	1608	0.80±0.10	±5%				CGA3E2C0G2A330J080AA
39pF	1608	0.80±0.10	±5%				CGA3E2C0G2A390J080AA
47pF	1608	0.80±0.10	±5%				CGA3E2C0G2A470J080AA
56pF	1608	0.80±0.10	±5%				CGA3E2C0G2A560J080AA
68pF	1608	0.80±0.10	±5%				CGA3E2C0G2A680J080AA
82pF	1608	0.80±0.10	±5%				CGA3E2C0G2A820J080AA
	1005	0.50±0.05	±5%				CGA2B2C0G2A101J050BA
100pF	1608	0.80±0.10	±5%				CGA3E3C0G2E101J080AA
	2012	0.60±0.15	±5%	CGA4C4C0G2W101J060AA			CGA3E2C0G2A101J080AA
	3216	0.60±0.15	±5%	CGA5C4C0G2J101J060AA			CGA4C2C0G2A101J060AA
	1005	0.50±0.05	±5%				CGA2B2C0G2A121J050BA
120pF	1608	0.80±0.10	±5%				CGA3E3C0G2E121J080AA
	2012	0.60±0.15	±5%	CGA4C4C0G2W121J060AA			CGA3E2C0G2A121J080AA
	3216	0.60±0.15	±5%	CGA5C4C0G2J121J060AA			
	1005	0.50±0.05	±5%				CGA2B2C0G2A151J050BA
150pF	1608	0.80±0.10	±5%				CGA3E3C0G2E151J080AA
	2012	0.60±0.15	±5%	CGA4C4C0G2W151J060AA			CGA3E2C0G2A151J080AA
	3216	0.60±0.15	±5%	CGA5C4C0G2J151J060AA			
	1005	0.50±0.05	±5%				CGA2B2C0G2A181J050BA
180pF	1608	0.80±0.10	±5%				CGA3E3C0G2E181J080AA
	2012	0.60±0.15	±5%	CGA4C4C0G2W181J060AA			CGA3E2C0G2A181J080AA
	3216	0.60±0.15	±5%	CGA5C4C0G2J181J060AA			
	1005	0.50±0.05	±5%				CGA2B2C0G2A221J050BA
220pF	1608	0.80±0.10	±5%				CGA3E3C0G2E221J080AA
	2012	0.60±0.15	±5%	CGA4C4C0G2W221J060AA			CGA4C2C0G2A221J060AA
	3216	0.60±0.15	±5%	CGA5C4C0G2J221J060AA			
	1005	0.50±0.05	±5%				CGA2B2C0G2A271J050BA
270pF	1608	0.80±0.10	±5%				CGA3E3C0G2E271J080AA
	2012	0.60±0.15	±5%	CGA4C4C0G2W271J060AA			CGA3E2C0G2A271J080AA
	3216	0.60±0.15	±5%	CGA5C4C0G2J271J060AA			
	1005	0.50±0.05	±5%				CGA2B2C0G2A331J050BA
330pF	1608	0.80±0.10	±5%				CGA3E3C0G2E331J080AA
	2012	0.60±0.15	±5%	CGA4C4C0G2W331J060AA			CGA3E2C0G2A331J080AA
	3216	0.60±0.15	±5%	CGA5C4C0G2J331J060AA			
	1005	0.50±0.05	±5%				CGA2B2C0G2A391J050BA
390pF	1608	0.80±0.10	±5%				CGA3E3C0G2E391J080AA
	2012	0.60±0.15	±5%	CGA4C4C0G2W391J060AA			CGA3E2C0G2A391J080AA
	3216	0.60±0.15	±5%	CGA5C4C0G2J391J060AA			
	1005	0.50±0.10	±5%				CGA2B2C0G2A471J050BA
470pF	1608	0.80±0.10	±5%				CGA3E3C0G2E471J080AA
	2012	0.60±0.15	±5%	CGA4C4C0G2W471J060AA			CGA4C2C0G2A471J060AA
	3216	0.85±0.15	±5%	CGA5F4C0G2J471J085AA			
	1005	0.50±0.05	±5%				CGA2B1C0G2A561J050BC
560pF	1608	0.80±0.10	±5%				CGA3E3C0G2E561J080AA
	2012	0.60±0.15	±5%	CGA4C4C0G2W561J060AA			CGA3E2C0G2A561J080AA
	3216	0.85±0.15	±5%	CGA5F4C0G2J561J085AA			

■ Gray items: These products are not recommended for new designs.

Click the part numbers for details.

MULTILAYER CERAMIC CHIP CAPACITORS



Capacitance range table

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

Capacitance	Dimensions	Thickness (mm)	Capacitance tolerance	Catalog number			
				Rated voltage Edc: 630V	Rated voltage Edc: 450V	Rated voltage Edc: 250V	Rated voltage Edc: 100V
680pF	1005	0.50±0.05	±5%				CGA2B1C0G2A681J050BC
	1608	0.80±0.10	±5%				CGA3E3C0G2E681J080AA
	2012	0.60±0.15	±5%		CGA4C4C0G2W681J060AA		CGA3E2C0G2A681J080AA
	3216	0.85±0.15	±5%	CGA5F4C0G2J681J085AA			
820pF	1005	0.50±0.05	±5%				CGA2B1C0G2A821J050BC
	1608	0.80±0.10	±5%				CGA3E3C0G2E821J080AA
	2012	0.60±0.15	±5%		CGA4C4C0G2W821J060AA	CGA4C3C0G2E821J060AA	
	3216	0.85±0.15	±5%	CGA5F4C0G2J821J085AA			
1nF	1005	0.50±0.05	±5%				CGA2B1C0G2A102J050BC
	1608	0.80±0.10	±5%				CGA3E3C0G2E102J080AA
	2012	0.60±0.15	±5%		CGA4C4C0G2W102J060AA		CGA4C2C0G2A102J060AA
	3216	0.85±0.15	±5%	CGA5F4C0G2J102J085AA			
1.2nF	1608	0.80±0.10	±5%				CGA3E3C0G2E122J080AA
	2012	0.60±0.15	±5%		CGA4C4C0G2W122J060AA		CGA4C2C0G2A122J060AA
	3216	0.85±0.15	±5%	CGA5F4C0G2J122J085AA			
	1608	0.80±0.10	±5%				CGA3E3C0G2E152J080AA
1.5nF	2012	0.60±0.15	±5%				CGA4C3C0G2A152J080AA
	3216	1.15±0.15	±5%	CGA5H4C0G2J152J115AA			
	1608	0.80±0.10	±5%				CGA3E3C0G2E182J080AA
	2012	0.85±0.15	±5%		CGA4F4C0G2W182J085AA		CGA4F2C0G2A182J085AA
1.8nF	3216	1.25±0.20	±5%				CGA4J3C0G2E182J125AA
	1608	1.15±0.15	±5%	CGA5H4C0G2J182J115AA			
	1608	0.80±0.10	±5%				CGA3E2C0G2A222J080AA
	2012	0.80±0.20	±5%				CGA3E3C0G2E222J080AA
2.2nF	3216	0.85±0.15	±5%		CGA4F4C0G2W222J085AA		CGA4F2C0G2A222J085AA
	1608	1.25±0.20	±5%				CGA4J3C0G2E222J125AA
	2012	1.25±0.20	±5%				CGA5H4C0G2J222J115AA
	3216	1.15±0.15	±5%	CGA5H4C0G2J222J115AA			
2.7nF	1608	0.80±0.20	±5%				CGA3E2C0G2A272J080AA
	2012	1.25±0.20	±5%		CGA4J4C0G2W272J125AA	CGA4J3C0G2E272J125AA	CGA4J2C0G2A272J125AA
	3216	1.60±0.20	±5%	CGA5L4C0G2J272J160AA			
	1608	0.80±0.20	±5%				CGA3E2C0G2A332J080AA
3.3nF	2012	0.85±0.15	±5%				CGA4F3C0G2E332J085AA
	3216	1.25±0.20	±5%		CGA4J4C0G2W332J125AA		CGA4J2C0G2A332J125AA
	2012	0.85±0.15	±5%				CGA5F3C0G2E332J085AA
	3216	1.60±0.20	±5%	CGA5L4C0G2J332J160AA			
3.9nF	1608	0.80±0.10	±5%				CGA3E1C0G2A392J080AC
	2012	1.25±0.20	±5%		CGA4J4C0G2W392J125AA	CGA4J3C0G2E392J125AA	CGA4J2C0G2A392J125AA
	3216	0.60±0.15	±5%	CGA5F4C0G2J392J085AA			CGA5C2C0G2A392J060AA
	3216	1.15±0.15	±5%				CGA5H3C0G2E392J115AA
4.7nF	3225	1.25±0.20	±5%	CGA6J4C0G2J392J125AA			
	1608	0.80±0.10	±5%				CGA3E1C0G2A472J080AC
	2012	1.25±0.20	±5%		CGA4J4C0G2W472J125AA	CGA4J3C0G2E472J125AA	CGA4J2C0G2A472J125AA
	3216	0.85±0.15	±5%	CGA5F4C0G2J472J085AA			CGA5F2C0G2A472J085AA
5.6nF	3225	1.15±0.15	±5%	CGA6J4C0G2J472J125AA			
	1608	0.80±0.10	±5%				CGA3E1C0G2A562J080AC
	2012	1.25±0.20	±5%		CGA4J4C0G2W562J125AA	CGA4J3C0G2E562J125AA	CGA4J2C0G2A562J125AA
	3216	0.85±0.15	±5%	CGA5H4C0G2J562J115AA			CGA5F2C0G2A562J085AA
6.8nF	3225	1.60±0.20	±5%	CGA6L4C0G2J562J160AA			
	1608	0.80±0.10	±5%				CGA3E1C0G2A682J080AC
	2012	1.25±0.20	±5%		CGA4J3C0G2E682J125AA	CGA4J2C0G2A682J125AA	CGA5H2C0G2A682J115AA
	3216	1.15±0.15	±5%	CGA5H4C0G2J682J115AA	CGA5H4C0G2W682J115AA		
8.2nF	3225	2.00±0.20	±5%	CGA6M4C0G2J682J200AA			
	1608	0.80±0.10	±5%				CGA3E1C0G2A822J080AC
	2012	1.25±0.20	±5%		CGA4J3C0G2E822J125AA	CGA4J2C0G2A822J125AA	CGA5H2C0G2A822J115AA
	3216	1.15±0.15	±5%	CGA5H4C0G2J822J115AA	CGA5H4C0G2W822J115AA	CGA5L3C0G2E822J160AA	
8.2nF	3225	1.25±0.20	±5%	CGA6L4C0G2J822J125AA			
	1608	1.60±0.20	±5%	CGA5L4C0G2J822J160AA			CGA3E1C0G2A822J080AC
	2012	1.25±0.20	±5%	CGA6J4C0G2J822J125AA			CGA4J2C0G2A822J125AA
	4532	1.60±0.20	±5%	CGA8L4C0G2J822J160KA			CGA5H2C0G2A822J115AA

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MULTILAYER CERAMIC CHIP CAPACITORS



Capacitance range table

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

Capacitance	Dimensions	Thickness (mm)	Capacitance tolerance	Catalog number			
				Rated voltage Edc: 630V	Rated voltage Edc: 450V	Rated voltage Edc: 250V	Rated voltage Edc: 100V
10nF	1608	0.80±0.10	±5%				CGA3E1C0G2A103J080AC
	2012	1.25±0.20	±5%				CGA4J2C0G2A103J125AA
	3216	1.15±0.15	±5%				CGA5H3C0G2E103J115AA
		1.60±0.20	±5%	CGA5L4C0G2J103J160AA	CGA5L4C0G2W103J160AA		CGA5H2C0G2A103J115AA
	3225	1.25±0.20	±5%	CGA6J4C0G2J103J125AA			
	4532	1.60±0.20	±5%			CGA6L3C0G2E103J160AA	
	2012	0.85±0.15	±5%				CGA4F1C0G2A153J085AC
15nF		1.15±0.15	±5%				CGA5H2C0G2A153J115AA
	3216	1.60+0.30,-0.10	±5%		CGA5L4C0G2W153J160AA		
		1.60±0.20	±5%			CGA5L3C0G2E153J160AA	
	3225	1.25±0.20	±5%				CGA6J2C0G2A153J125AA
		1.60±0.20	±5%	CGA6L4C0G2J153J160AA			
	4532	2.00±0.20	±5%			CGA6M3C0G2E153J200AA	
	2012	2.50±0.30	±5%	CGA8P4C0G2J153J250KA			
22nF	2012	1.25±0.20	±5%				CGA4J1C0G2A223J125AC
	3216	1.60+0.30,-0.10	±5%			CGA5L3C0G2E223J160AA	
		1.60±0.20	±5%				CGA5L2C0G2A223J160AA
	3225	1.60±0.20	±5%			CGA6L3C0G2E223J160AA	CGA6L2C0G2A223J160AA
		2.30±0.20	±5%	CGA6N4C0G2J223J230AA	CGA6N4C0G2W223J230AA		
	4532	1.60±0.20	±5%			CGA8L3C0G2E223J160KA	
		3.20±0.30	±5%	CGA8R4C0G2J223J320KA			
33nF	2012	1.25±0.20	±5%				CGA4J1C0G2A333J125AC
	3216	1.60+0.30,-0.10	±5%				CGA5L2C0G2A333J160AA
		2.00±0.20	±5%				CGA6M2C0G2A333J200AA
	3225	2.30±0.20	±5%			CGA6N3C0G2E333J230AA	
		2.50±0.30	±5%	CGA6P4C0G2J333J250AA	CGA6P4C0G2W333J250AA		
	4532	2.00±0.20	±5%	CGA8M4C0G2J333J200KA		CGA8M3C0G2E333J200KA	
	3216	1.15±0.15	±5%				CGA5H1C0G2A473J115AC
47nF		2.30±0.20	±5%				CGA6N2C0G2A473J230AA
	3225	2.50±0.30	±5%			CGA6P3C0G2E473J250AA	
		2.00±0.20	±5%				CGA8M2C0G2A473J200KA
	4532	2.30±0.20	±5%		CGA8N4C0G2W473J230KA		
		3.20±0.30	±5%	CGA8R4C0G2J473J320KA		CGA8R3C0G2E473J320KA	
	3216	1.60±0.20	±5%				CGA5L1C0G2A683J160AC
	3225	2.30±0.20	±5%				CGA6N2C0G2A683J230AA
68nF		2.30±0.20	±5%			CGA8N4C0G2E683J230KN	
	4532	2.50±0.30	±5%				CGA8P2C0G2A683J250KA
		3.20±0.30	±5%	CGA8R4C0G2W683J320KA			
	5750	2.30±0.20	±5%	CGA9N1C0G2J683J230KC			
	3216	1.60±0.20	±5%				CGA5L1C0G2A104J160AC
	4532	3.20±0.30	±5%			CGA8R4C0G2E104J320KN	CGA8R2C0G2A104J320KA
	5750	2.80±0.30	±5%	CGA9Q1C0G2J104J280KC	CGA9Q4C0G2W104J280KA		
100nF	5750	5.75±0.20	±5%			CGA9N4C0G2E154J230KN	CGA9N2C0G2A154J230KA
	5750	2.30±0.20	±5%				

Click the part numbers for details.

MULTILAYER CERAMIC CHIP CAPACITORS



Capacitance range table

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

Capacitance	Dimensions	Thickness (mm)	Capacitance tolerance	Catalog number		
				Rated voltage Edc: 630V	Rated voltage Edc: 250V	Rated voltage Edc: 100V
1nF	1608	0.80±0.10	±10% ±20%			CGA3E2X7R2A102K080AA CGA3E2X7R2A102M080AA
	3216	1.15±0.15	±10% ±20%	CGA5H4X7R2J102K115AA CGA5H4X7R2J102M115AA		
1.5nF	1608	0.80±0.10	±10% ±20%			CGA3E2X7R2A152K080AA CGA3E2X7R2A152M080AA
	3216	1.15±0.15	±10% ±20%	CGA5H4X7R2J152K115AA CGA5H4X7R2J152M115AA		
2.2nF	1608	0.80±0.10	±10% ±20%			CGA3E2X7R2A222K080AA CGA3E2X7R2A222M080AA
	3216	1.15±0.15	±10% ±20%	CGA5H4X7R2J222K115AA CGA5H4X7R2J222M115AA		
3.3nF	1608	0.80±0.10	±10% ±20%			CGA3E2X7R2A332K080AA CGA3E2X7R2A332M080AA
	3216	1.15±0.15	±10% ±20%	CGA5H4X7R2J332K115AA CGA5H4X7R2J332M115AA		
4.7nF	1608	0.80±0.10	±10% ±20%			CGA3E2X7R2A472K080AA CGA3E2X7R2A472M080AA
	3216	1.15±0.15	±10% ±20%	CGA5H4X7R2J472K115AA CGA5H4X7R2J472M115AA		
6.8nF	1608	0.80±0.10	±10% ±20%			CGA3E2X7R2A682K080AA CGA3E2X7R2A682M080AA
	2012	1.25±0.20	±10% ±20%			CGA4J3X7R2E682K125AA CGA4J3X7R2E682M125AA
10nF	3216	1.15±0.15	±10% ±20%	CGA5H4X7R2J682K115AA CGA5H4X7R2J682M115AA		
	1608	0.80±0.10	±10% ±20%			CGA3E2X7R2A103K080AA CGA3E2X7R2A103M080AA
10nF	2012	1.25±0.20	±10% ±20%			CGA4J3X7R2E103K125AA CGA4J3X7R2E103M125AA
	3216	1.15±0.15	±10% ±20%	CGA5H4X7R2J103K115AA CGA5H4X7R2J103M115AA		
15nF	1608	0.80±0.10	±10% ±20%			CGA3E2X7R2A153K080AA CGA3E2X7R2A153M080AA
	2012	1.25±0.20	±10% ±20%	CGA4J3X7R2E153K125AA CGA4J3X7R2E153M125AA	CGA4J2X7R2A153K125AA CGA4J2X7R2A153M125AA	
15nF	3216	1.15±0.15	±10% ±20%	CGA5H3X7R2E153K115AA CGA5H3X7R2E153M115AA		
	1608	1.30±0.20	±10% ±20%	CGA5K4X7R2J153K130AA CGA5K4X7R2J153M130AA		
22nF	1608	0.80±0.10	±10% ±20%			CGA3E2X7R2A223K080AA CGA3E2X7R2A223M080AA
	2012	1.25±0.20	±10% ±20%	CGA4J3X7R2E223K125AA CGA4J3X7R2E223M125AA	CGA4J2X7R2A223K125AA CGA4J2X7R2A223M125AA	
22nF	3216	1.15±0.15	±10% ±20%	CGA5H3X7R2E223K115AA CGA5H3X7R2E223M115AA		
	1608	1.30±0.20	±10% ±20%	CGA5K4X7R2J223K130AA CGA5K4X7R2J223M130AA		
33nF	2012	1.25±0.20	±10% ±20%			CGA4J2X7R2A333K125AA CGA4J2X7R2A333M125AA
	3216	1.15±0.15	±10% ±20%	CGA5L4X7R2J333K160AA CGA5L4X7R2J333M160AA	CGA5L3X7R2E333K160AA CGA5L3X7R2E333M160AA	CGA5H2X7R2A333K115AA CGA5H2X7R2A333M115AA
47nF	2012	1.25±0.20	±10% ±20%			CGA4J2X7R2A473K125AA CGA4J2X7R2A473M125AA
	3216	1.15±0.15	±10% ±20%	CGA5L4X7R2J473K160AA CGA5L4X7R2J473M160AA	CGA5L3X7R2E473K160AA CGA5L3X7R2E473M160AA	CGA5H2X7R2A473K115AA CGA5H2X7R2A473M115AA
47nF	3225	2.00±0.20	±10% ±20%	CGA6M4X7R2J473K200AA CGA6M4X7R2J473M200AA		
	3216	1.60±0.20	±10% ±20%	CGA5L3X7R2E683K160AA CGA5L3X7R2E683M160AA	CGA5L2X7R2A683K160AA CGA5L2X7R2A683M160AA	
68nF	3225	2.00±0.20	±10% ±20%	CGA6M4X7R2J683K200AA CGA6M4X7R2J683M200AA		
	4532	1.60±0.20	±10% ±20%	CGA8L4X7R2J683K160KA CGA8L4X7R2J683M160KA		

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MULTILAYER CERAMIC CHIP CAPACITORS



Capacitance range table

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

Capacitance	Dimensions	Thickness (mm)	Capacitance tolerance	Catalog number		
				Rated voltage Edc: 630V	Rated voltage Edc: 250V	Rated voltage Edc: 100V
100nF	2012	1.25±0.20	±10% ±20%			CGA4J2X7R2A104K125AA CGA4J2X7R2A104M125AA
	3216	1.60±0.20	±10% ±20%	CGA5L3X7R2E104K160AA	CGA5L2X7R2A104K160AA	
	3225	2.00±0.20	±10% ±20%	CGA5L3X7R2E104M160AA	CGA5L2X7R2A104M160AA	
	4532	2.30±0.20	±10% ±20%	CGA8N4X7R2J104K230KA	CGA8N4X7R2J104M230KA	
	3216	1.60±0.20	±10% ±20%			CGA5L2X7R2A154K160AA CGA5L2X7R2A154M160AA
	3225	2.00±0.20	±10% ±20%	CGA6M3X7R2E154K200AA	CGA6M3X7R2E154M200AA	
150nF	4532	1.60±0.20	±10% ±20%	CGA8L3X7R2E154K160KA	CGA8L3X7R2E154M160KA	
	5750	1.60±0.20	±10% ±20%	CGA9L4X7R2J154K160KA	CGA9L4X7R2J154M160KA	
	3216	1.15±0.15	±10% ±20%			CGA5H2X7R2A224K115AA CGA5H2X7R2A224M115AA
	3225	2.00±0.20	±10% ±20%	CGA6M3X7R2E224K200AA	CGA6M3X7R2E224M200AA	
	4532	2.30±0.20	±10% ±20%	CGA8N3X7R2E224K230KA	CGA8N3X7R2E224M230KA	
	5750	2.30±0.20	±10% ±20%	CGA9N4X7R2J224K230KA	CGA9N4X7R2J224M230KA	
220nF	3216	1.30±0.20	±10% ±20%			CGA5K2X7R2A334K130AA CGA5K2X7R2A334M130AA
	3225	2.00±0.20	±10% ±20%			CGA6M2X7R2A334K200AA
	4532	2.30±0.20	±10% ±20%	CGA8N3X7R2E334K230KA	CGA8N3X7R2E334M230KA	
	5750	1.60±0.20	±10% ±20%	CGA9L3X7R2E334K160KA	CGA9L3X7R2E334M160KA	
	3216	1.60±0.20	±10% ±20%			CGA5L2X7R2A474K160AA CGA5L2X7R2A474M160AA
	3225	2.00±0.20	±10% ±20%			CGA6M2X7R2A474K200AA
330nF	4532	2.30±0.20	±10% ±20%	CGA8N3X7R2E474K230KA	CGA8N3X7R2E474M230KA	
	5750	1.60±0.20	±10% ±20%	CGA9L3X7R2E474K160KA	CGA9L3X7R2E474M160KA	
	3216	1.60±0.20	±10% ±20%			CGA5L2X7R2A474K160AA CGA5L2X7R2A474M160AA
	3225	2.00±0.20	±10% ±20%			CGA6M2X7R2A474K200AA
	4532	2.30±0.20	±10% ±20%	CGA8N3X7R2E474K230KA	CGA8N3X7R2E474M230KA	
	5750	2.30±0.20	±10% ±20%	CGA9N3X7R2E474K230KA	CGA9N3X7R2E474M230KA	
470nF	3216	1.60±0.20	±10% ±20%			CGA5L2X7R2A684K160AA CGA5L2X7R2A684M160AA
	3225	2.00±0.20	±10% ±20%			CGA6M2X7R2A684K200AA
	4532	2.30±0.20	±10% ±20%	CGA8N3X7R2E684K230KA	CGA8N3X7R2E684M230KA	
	5750	2.30±0.20	±10% ±20%	CGA9N3X7R2E684K230KA	CGA9N3X7R2E684M230KA	
	3216	1.60±0.20	±10% ±20%			CGA5L2X7R2A684K160AA CGA5L2X7R2A684M160AA
	3225	1.60±0.20	±10% ±20%			CGA6L2X7R2A684K160AA
680nF	4532	2.30±0.20	±10% ±20%			CGA8N2X7R2A684K230KA CGA8N2X7R2A684M230KA
	5750	1.60±0.20	±10% ±20%			CGA9L2X7R2A684K160KA
	4532	2.30±0.20	±10% ±20%			CGA9L2X7R2A684M160KA
	5750	2.30±0.20	±10% ±20%	CGA9N3X7R2E684K230KA	CGA9N3X7R2E684M230KA	
	3216	1.60±0.20	±10% ±20%			CGA5L2X7R2A105K160AA CGA5L2X7R2A105M160AA
	3225	2.00±0.20	±10% ±20%			CGA6M2X7R2A105K200AA CGA6M2X7R2A105M200AA
1µF	4532	2.30±0.20	±10% ±20%			CGA8N2X7R2A105K230KA CGA8N2X7R2A105M230KA
	5750	2.30±0.20	±10% ±20%	CGA9N3X7R2E105K230KA	CGA9N3X7R2E105M230KA	CGA9N2X7R2A105M230KA
	3225	2.00±0.20	±10% ±20%			CGA6M3X7R2A155K200AB CGA6M3X7R2A155M200AB
	4532	2.30±0.20	±10% ±20%			CGA8N2X7R2A155K230KA CGA8N2X7R2A155M230KA
	5750	2.30±0.20	±10% ±20%			CGA9N2X7R2A155K230KA CGA9N2X7R2A155M230KA
	3225	2.30±0.20	±10% ±20%			CGA6M3X7R2A155K200AB CGA6M3X7R2A155M200AB
1.5µF	4532	2.30±0.20	±10% ±20%			CGA8N2X7R2A155K230KA CGA8N2X7R2A155M230KA
	5750	2.30±0.20	±10% ±20%			CGA9N2X7R2A155K230KA CGA9N2X7R2A155M230KA

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MULTILAYER CERAMIC CHIP CAPACITORS

Capacitance range table

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

Capacitance	Dimensions	Thickness (mm)	Capacitance tolerance	Catalog number	
				Rated voltage Edc: 100V	
2.2µF	2012	1.25±0.25,-0.15	±10%	CGA4J1X7R2A225K125AC	
	3225	2.30±0.20	±10%	CGA6N3X7R2A225K230AB	
			±20%	CGA6N3X7R2A225M230AB	
	4532	2.30±0.20	±10%	CGA8N2X7R2A225K230KA	
3.3µF			±20%	CGA8N2X7R2A225M230KA	
	5750	2.30±0.20	±10%	CGA9N2X7R2A225K230KA	
			±20%	CGA9N2X7R2A225M230KA	
	5750	2.30±0.20	±10%	CGA9N2X7R2A335K230KA	
4.7µF	3216	1.6±0.30,-0.10	±10%	CGA5L1X7R2A475K160AC	
	5750	2.30±0.20	±10%	CGA9N2X7R2A475K230KA	
10µF	3225	2.50±0.30	±10%	CGA6P1X7R2A106K250AC	

■ Gray items: These products are not recommended for new designs.

Click the part numbers for details.

MULTILAYER CERAMIC CHIP CAPACITORS

Capacitance range table

Temperature characteristic: X7S (-55 to +125°C, ±22%)

Capacitance	Dimensions	Thickness (mm)	Capacitance tolerance	Catalog number	
				Rated voltage Edc: 100V	
1nF	1005	0.50±0.05	±10%	CGA2B3X7S2A102K050BB	
			±20%	CGA2B3X7S2A102M050BB	
1.5nF	1005	0.50±0.05	±10%	CGA2B3X7S2A152K050BB	
			±20%	CGA2B3X7S2A152M050BB	
2.2nF	1005	0.50±0.05	±10%	CGA2B3X7S2A222K050BB	
			±20%	CGA2B3X7S2A222M050BB	
3.3nF	1005	0.50±0.05	±10%	CGA2B3X7S2A332K050BB	
			±20%	CGA2B3X7S2A332M050BB	
4.7nF	1005	0.50±0.05	±10%	CGA2B3X7S2A472K050BB	
			±20%	CGA2B3X7S2A472M050BB	
6.8nF	1005	0.50±0.05	±10%	CGA2B3X7S2A682K050BB	
			±20%	CGA2B3X7S2A682M050BB	
10nF	1005	0.50±0.05	±10%	CGA2B3X7S2A103K050BB	
			±20%	CGA2B3X7S2A103M050BB	
33nF	1608	0.80±0.10	±10%	CGA3E3X7S2A333K080AB	
			±20%	CGA3E3X7S2A333M080AB	
47nF	1608	0.80±0.10	±10%	CGA3E3X7S2A473K080AB	
			±20%	CGA3E3X7S2A473M080AB	
68nF	1608	0.80±0.10	±10%	CGA3E3X7S2A683K080AB	
			±20%	CGA3E3X7S2A683M080AB	
100nF	1608	0.80±0.10	±10%	CGA3E3X7S2A104K080AB	
			±20%	CGA3E3X7S2A104M080AB	
330nF	2012	1.25±0.20	±10%	CGA4J3X7S2A334K125AB	
			±20%	CGA4J3X7S2A334M125AB	
470nF	2012	1.25±0.20	±10%	CGA4J3X7S2A474K125AB	
			±20%	CGA4J3X7S2A474M125AB	
680nF	2012	1.25±0.20	±10%	CGA4J3X7S2A684K125AB	
			±20%	CGA4J3X7S2A684M125AB	
1μF	2012	1.25±0.20	±10%	CGA4J3X7S2A105K125AB	
			±20%	CGA4J3X7S2A105M125AB	
1.5μF	3216	1.60±0.20	±10%	CGA5L3X7S2A155K160AB	
			±20%	CGA5L3X7S2A155M160AB	
2.2μF	3216	1.60±0.20	±10%	CGA5L3X7S2A225M160AB	
	3216	1.60+0.30,-0.10	±10%	CGA5L3X7S2A335K160AB	
			±20%	CGA5L3X7S2A335M160AB	
3.3μF	3225	2.00±0.20	±10%	CGA6M3X7S2A335K200AB	
			±20%	CGA6M3X7S2A335M200AB	
	4532	2.00±0.20	±10%	CGA8M3X7S2A335K200KB	
			±20%	CGA8M3X7S2A335M200KB	
4.7μF	3225	2.00±0.20	±10%	CGA6M3X7S2A475K200AB	
			±20%	CGA6M3X7S2A475M200AB	
	4532	2.30±0.20	±10%	CGA8N3X7S2A475K230KB	
			±20%	CGA8N3X7S2A475M230KB	
6.8μF	5750	2.00±0.20	±10%	CGA9M3X7S2A685K200KB	
			±20%	CGA9M3X7S2A685M200KB	
10μF	5750	2.30±0.20	±10%	CGA9N3X7S2A106K230KB	
			±20%	CGA9N3X7S2A106M230KB	
15μF	5750	2.50±0.30	±10%	CGA9P3X7S2A156M250KB	
			±20%	CGA9P3X7S2A156K250KB	

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MULTILAYER CERAMIC CHIP CAPACITORS



Capacitance range table

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

Capacitance	Dimensions	Thickness (mm)	Capacitance tolerance	Catalog number		
				Rated voltage Edc: 630V	Rated voltage Edc: 450V	Rated voltage Edc: 250V
22nF	2012	1.25±0.20	±10%		CGA4J4X7T2W223K125AA	
			±20%		CGA4J4X7T2W223M125AA	
33nF	3216	1.15±0.15	±10%	CGA5H1X7T2J223K115AC		
			±20%	CGA5H1X7T2J223M115AC		
47nF	2012	1.25±0.20	±10%		CGA4J4X7T2W333K125AA	CGA4J3X7T2E333K125AA
			±20%		CGA4J4X7T2W333M125AA	CGA4J3X7T2E333M125AA
68nF	3216	1.15±0.15	±10%	CGA5H1X7T2J333K115AC		
			±20%	CGA5H1X7T2J333M115AC		
100nF	2012	1.25±0.20	±10%		CGA4J4X7T2W473K125AA	CGA4J3X7T2E473K125AA
			±20%		CGA4J4X7T2W473M125AA	CGA4J3X7T2E473M125AA
150nF	3216	1.60±0.20	±10%		CGA5L1X7T2J473K160AC	
			±20%		CGA5L1X7T2J473M160AC	
220nF	3225	1.60±0.20	±10%	CGA6L1X7T2J104K160AC		
			±20%	CGA6L1X7T2J104M160AC		
330nF	3216	1.30±0.20	±10%		CGA5K3X7T2E154K130AA	
			±20%		CGA5K3X7T2E154M130AA	
470nF	4532	1.60±0.20	±10%	CGA6M1X7T2J154K200AC		
			±20%	CGA6M1X7T2J154M200AC		
680nF	3225	2.00±0.20	±10%	CGA8M1X7T2J224K200KC		
			±20%	CGA8M1X7T2J224M200KC		
1μF	4532	2.00±0.20	±10%		CGA6M3X7T2E334K200AA	
			±20%		CGA6M3X7T2E334M200AA	
1.5μF	5750	2.00±0.20	±10%	CGA8L4X7T2W334K160KA		
			±20%	CGA8L4X7T2W334M160KA		
2.2μF	4532	2.30±0.20	±10%		CGA8N4X7T2W474K230KA	
			±20%		CGA8N4X7T2W474M230KA	
5750	5750	2.50±0.30	±10%	CGA9P1X7T2J474K250KC		
			±20%	CGA9P1X7T2J474M250KC		
5750	4532	1.60±0.20	±10%		CGA8L3X7T2E684K160KA	
			±20%		CGA8L3X7T2E684M160KA	
5750	5750	2.00±0.20	±10%	CGA9M4X7T2W684K200KA		
			±20%	CGA9M4X7T2W684M200KA		
5750	4532	2.50±0.30	±10%		CGA8P3X7T2E105K250KA	
			±20%		CGA8P3X7T2E105M250KA	
5750	5750	2.50±0.30	±10%	CGA9P4X7T2W105K250KA		
			±20%	CGA9P4X7T2W105M250KA		
5750	4532	2.50±0.30	±10%		CGA9M3X7T2E155K200KA	
			±20%		CGA9M3X7T2E155M200KA	
5750	5750	2.50±0.30	±10%		CGA9P3X7T2E225K250KA	
			±20%		CGA9P3X7T2E225M250KA	

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