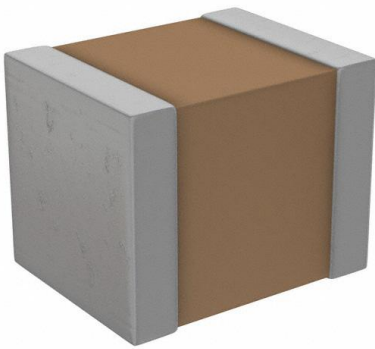


# CGA6P1X7R1N106M250AC Datasheet

[www.digi-electronics.com](http://www.digi-electronics.com)



<https://www.DiGi-Electronics.com>

DiGi Electronics Part Number	CGA6P1X7R1N106M250AC-DG
Manufacturer	<a href="#">TDK Corporation</a>
Manufacturer Product Number	CGA6P1X7R1N106M250AC
Description	CAP CER 10UF 75V X7R 1210
Detailed Description	10 $\mu$ F $\pm$ 20% 75V Ceramic Capacitor X7R 1210 (3225 Metric)

This model CGA6P1X7R1N106M250AC is available at DiGi Electronics.

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Tel: +00 852-30501935

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DiGi is a global authorized distributor of electronic components.

## Purchase and inquiry

Manufacturer Product Number:

CGA6P1X7R1N106M250AC

Series:

CGA

Capacitance:

10  $\mu$ F

Voltage - Rated:

75V

Operating Temperature:

-55°C ~ 125°C

Ratings:

AEC-Q200

Failure Rate:

-

Package / Case:

1210 (3225 Metric)

Height - Seated (Max):

-

Lead Spacing:

-

Manufacturer:

TDK Corporation

Product Status:

Active

Tolerance:

$\pm$ 20%

Temperature Coefficient:

X7R

Features:

Low ESL

Applications:

Automotive

Mounting Type:

Surface Mount, MLCC

Size / Dimension:

0.126" L x 0.098" W (3.20mm x 2.50mm)

Thickness (Max):

0.110" (2.80mm)

Lead Style:

-

## Environmental & Export classification

RoHS Status:

ROHS3 Compliant

REACH Status:

REACH Unaffected

HTSUS:

8532.24.0020

Moisture Sensitivity Level (MSL):

1 (Unlimited)

ECCN:

EAR99



March 2025

# MULTILAYER CERAMIC CHIP CAPACITORS

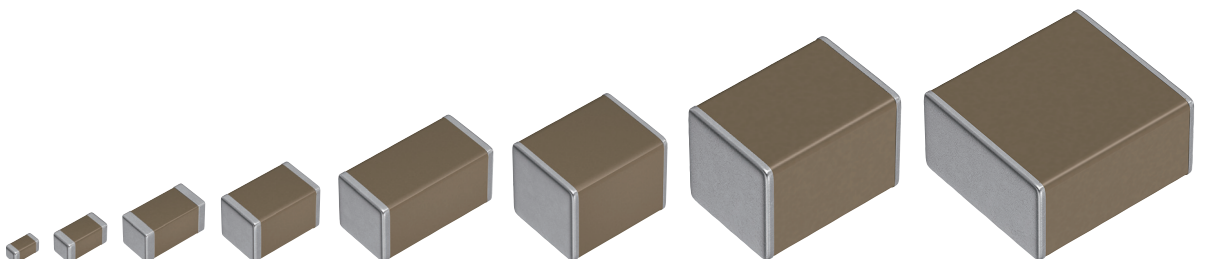
Automotive grade, general (Up to 75V)

## CGA series

---

<b>CGA1</b>	<b>0603 [EIA 0201]</b>
<b>CGA2</b>	<b>1005 [EIA 0402]</b>
<b>CGA3</b>	<b>1608 [EIA 0603]</b>
<b>CGA4</b>	<b>2012 [EIA 0805]</b>
<b>CGA5</b>	<b>3216 [EIA 1206]</b>
<b>CGA6</b>	<b>3225 [EIA 1210]</b>
<b>CGA8</b>	<b>4532 [EIA 1812]</b>
<b>CGA9</b>	<b>5750 [EIA 2220]</b>

\* 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

1. 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

## MULTILAYER CERAMIC CHIP CAPACITORS



# CGA series

## General (Up to 75V)



Type: CGA1/0603 [EIA 0201], CGA2/1005 [EIA 0402], CGA3/1608 [EIA 0603],  
CGA4/2012 [EIA 0805], CGA5/3216 [EIA 1206], CGA6/3225 [EIA 1210],  
CGA8/4532 [EIA 1812], CGA9/5750 [EIA 2220]

### SERIES OVERVIEW

General type CGA series is a surface-mounted component, which multilayer dielectrics and inner electrodes are stacked alternately. The monolithic structure ensures superior mechanical strength and high reliability. Also, outstanding frequency characteristics such as low ESR and low ESL are provided owing to the simpler structure than other capacitors. The capacitance range is up to 100 $\mu$ F and the lineup has been expanding to a range of the film capacitor and electrolytic capacitor.

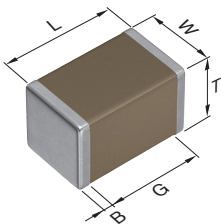
### FEATURES

- Superior mechanical strength and high reliability due to the monolithic structure
- Outstanding frequency characteristics such as low ESR and low ESL by the simple structure
- Low self-heating value and high resistance to ripple on account of the low ESR
- No polarity
- Qualified based on AEC-Q200

### APPLICATION

- Smoothing and decoupling use in power lines for automotive applications such as ADAS, autonomous driving system ECU
- LC resonance circuit (COG type)
- Applications requiring high reliability

### SHAPE & DIMENSIONS



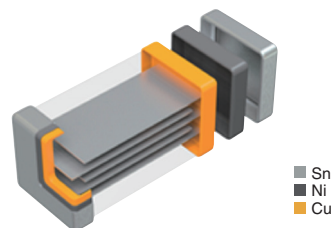
L	Body length
W	Body width
T	Body height
B	Terminal width
G	Terminal spacing

Dimensions in mm

Type	L	W	T	B	G
CGA1	0.60 $\pm$ 0.03	0.30 $\pm$ 0.03	0.30 $\pm$ 0.03	0.10 min.	0.20 min.
CGA2	1.00 $\pm$ 0.05	0.50 $\pm$ 0.05	0.50 $\pm$ 0.05	0.10 min.	0.30 min.
CGA3	1.60 $\pm$ 0.10	0.80 $\pm$ 0.10	0.80 $\pm$ 0.10	0.20 min.	0.30 min.
CGA4	2.00 $\pm$ 0.20	1.25 $\pm$ 0.20	1.25 $\pm$ 0.20	0.20 min.	0.50 min.
CGA5	3.20 $\pm$ 0.20	1.60 $\pm$ 0.20	1.60 $\pm$ 0.20	0.20 min.	1.00 min.
CGA6	3.20 $\pm$ 0.40	2.50 $\pm$ 0.30	2.50 $\pm$ 0.30	0.20 min.	-
CGA8	4.50 $\pm$ 0.40	3.20 $\pm$ 0.40	2.50 $\pm$ 0.30	0.20 min.	-
CGA9	5.70 $\pm$ 0.40	5.00 $\pm$ 0.40	2.50 $\pm$ 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.

## MULTILAYER CERAMIC CHIP CAPACITORS



## CATALOG NUMBER CONSTRUCTION

<b>CGA</b>	<b>6</b>	<b>P</b>	<b>1</b>	<b>X7T</b>	<b>OG</b>	<b>107</b>	<b>M</b>	<b>250</b>	<b>A</b>	<b>C</b>
(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
1	0201	0.60	0.30	0.10
2	0402	1.00	0.50	0.10
3	0603	1.60	0.80	0.20
4	0805	2.00	1.25	0.20
5	1206	3.20	1.60	0.20
6	1210	3.20	2.50	0.20
8	1812	4.50	3.20	0.20
9	2220	5.70	5.00	0.20

## (3)Thickness code

Code	Thickness
A	0.30 mm
B	0.50 mm
C	0.60 mm
E	0.80 mm
F	0.85 mm
H	1.15 mm
J	1.25 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.

## (5)Temperature characteristics

Temperature characteristics	Temperature coefficient or capacitance change	Temperature range
COG	0±30 ppm/°C	-55 to +125°C
X5R	±15%	-55 to +85°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)
0E	2.5V
0G	4V
0J	6.3V
1A	10V
1C	16V
1E	25V
1V	35V
1H	50V
1N	75V

## (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
030	0.30 mm
050	0.50 mm
060	0.60 mm
080	0.80 mm
085	0.85 mm
115	1.15 mm
125	1.25 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	TDK internal code
U	Derating guarantee product

## MULTILAYER CERAMIC CHIP CAPACITORS



## Capacitance range chart

## CGA1/0603 [EIA 0201]

Capacitance		COG		X7R					X7T
(pF)	Code	1H (50V)	1E (25V)	1H (50V)	1E (25V)	1C (16V)	1A (10V)	0J (6.3V)	0G (4V)
1.0	010	■	■						
1.5	1R5	■	■						
2.0	020	■	■						
2.2	2R2	■	■						
3.0	030	■	■						
3.3	3R3	■	■						
4.0	040	■	■						
4.7	4R7	■	■						
5.0	050	■	■						
6.0	060	■	■						
6.8	6R8	■	■						
7.0	070	■	■						
8.0	080	■	■						
9.0	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			■	■	■			
150	151			■	■	■			
220	221			■	■	■			
330	331			■	■	■			
470	471			■	■	■			
680	681			■	■	■			
1,000	102								
1,500	152								
2,200	222								
3,300	332								
4,700	472								
6,800	682								
10,000	103						■	■	
100,000	104								■

Standard thickness ■ 0.30 mm

■ Click the charts for details.


■ For details such as the catalog numbers, please refer to the capacitance range table on page 12 and after.


MULTILAYER CERAMIC CHIP CAPACITORS 


Capacitance range chart


CGA2/1005 [EIA 0402]


Capacitance		C0G	X5R					X7R					X7S		X7T	
(pF)	Code	1H (50V)	1H (50V)	1V (35V)	1E (25V)	1C (16V)	1A (10V)	1H (50V)	1V (35V)	1E (25V)	1C (16V)	1A (10V)	0J (6.3V)	1C (16V)	1A (10V)	0G (4V)
1.0	010															
1.5	1R5															
2.0	020															
2.2	2R2															
3.0	030															
3.3	3R3															
4.0	040															
4.7	4R7															
5.0	050															
6.0	060															
6.8	6R8															
7.0	070															
8.0	080															
9.0	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															
1,500	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															
1,000,000	105															

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 12 and after.

 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




## Capacitance range chart


## CGA3/1608 [EIA 0603]

Capacitance		COG	X5R	X7R
(pF)	Code	1H (50V)	1H (50V)	1H (50V)
1.0	010			
1.5	1R5			
2.0	020			
2.2	2R2			
3.0	030			
3.3	3R3			
4.0	040			
4.7	4R7			
5.0	050			
6.0	060			
6.8	6R8			
7.0	070			
8.0	080			
9.0	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			

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 12 and after.

## MULTILAYER CERAMIC CHIP CAPACITORS



## Capacitance range chart

## CGA3/1608 [EIA 0603]

Capacitance		X5R					X7R					X7S			X7T			
(pF)	Code	1H (50V)	1V (35V)	1E (25V)	1C (16V)	1A (10V)	0J (6.3V)	1H (50V)	1V (35V)	1E (25V)	1C (16V)	0J (6.3V)	1C (16V)	1A (10V)	0G (4V)	1A (10V)	0J (6.3V)	0G (4V)
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							■	■	■	■							
10,000,000	106							■	■	■	■							

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 12 and after.


MULTILAYER CERAMIC CHIP CAPACITORS 


Capacitance range chart


CGA4/2012 [EIA 0805]

Capacitance		COG	X5R					X7R					X7S			X7T	
(pF)	Code	1H (50V)	1H (50V)	1V (35V)	1E (25V)	1C (16V)	1A (10V)	1H (50V)	1V (35V)	1E (25V)	1C (16V)	1A (10V)	OJ (6.3V)	1E (25V)	1C (16V)	1A (10V)	OJ (6.3V)
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	█															
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												█		█	█	
22,000,000	226																█

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 12 and after.


MULTILAYER CERAMIC CHIP CAPACITORS 


Capacitance range chart


CGA5/3216 [EIA 1206]

Capacitance		COG	X5R				X7R					X7S	X7T
(pF)	Code	1H (50V)	1H (50V)	1V (35V)	1E (25V)	1C (16V)	1H (50V)	1V (35V)	1E (25V)	1C (16V)	0J (6.3V)	1A (10V)	0G (4V)
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												
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												
22,000,000	226												
47,000,000	476												

Standard thickness  0.60 mm  0.85 mm  1.15 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 12 and after.


Capacitance range chart


CGA6/3225 [EIA 1210]


Capacitance		COG	X7R				X7S			X7T	
(pF)	Code	1H (50V)	1N (75V)	1H (50V)	1E (25V)	1C (16V)	1H (50V)	1A (10V)	0J (6.3V)	0G (4V)	0E (2.5V)
22,000	223										
33,000	333										
47,000	473										
68,000	683										
100,000	104										
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										
22,000,000	226										
33,000,000	336										
47,000,000	476										
100,000,000	107										

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 12 and after.

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## MULTILAYER CERAMIC CHIP CAPACITORS



## Capacitance range chart

## CGA8/4532 [EIA 1812]

Capacitance		COG	X7R			
(pF)	Code	1H (50V)	1H (50V)	1E (25V)	1C (16V)	
47,000	473					
68,000	683					
100,000	104					
150,000	154					
220,000	224					
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					
22,000,000	226					
33,000,000	336					

Standard thickness 1.60 mm 2.00 mm 2.30 mm 2.50 mm 2.80 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 12 and after.

## Capacitance range chart

## CGA9/5750 [EIA 2220]

Capacitance		X7R			
(pF)	Code	1H (50V)	1V (35V)	1E (25V)	1C (16V)
4,700,000	475				
6,800,000	685				
10,000,000	106				
15,000,000	156				
22,000,000	226				
47,000,000	476				

Standard thickness 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 12 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: 50V	Rated voltage Edc: 25V
1pF	0603	0.30±0.03	±0.25pF	<a href="#">CGA1A2C0G1H010C030BA</a>	<a href="#">CGA1A2C0G1E010C030BA</a>
	1005	0.50±0.05	±0.25pF	<a href="#">CGA2B2C0G1H010C050BA</a>	
	1608	0.80±0.10	±0.25pF	<a href="#">CGA3E2C0G1H010C080AA</a>	
1.5pF	0603	0.30±0.03	±0.25pF	<a href="#">CGA1A2C0G1H1R5C030BA</a>	<a href="#">CGA1A2C0G1E1R5C030BA</a>
	1005	0.50±0.05	±0.25pF	<a href="#">CGA2B2C0G1H1R5C050BA</a>	
	1608	0.80±0.10	±0.25pF	<a href="#">CGA3E2C0G1H1R5C080AA</a>	
2pF	0603	0.30±0.03	±0.25pF	<a href="#">CGA1A2C0G1H020C030BA</a>	<a href="#">CGA1A2C0G1E020C030BA</a>
	1005	0.50±0.05	±0.25pF	<a href="#">CGA2B2C0G1H020C050BA</a>	
	1608	0.80±0.10	±0.25pF	<a href="#">CGA3E2C0G1H020C080AA</a>	
2.2pF	0603	0.30±0.03	±0.25pF	<a href="#">CGA1A2C0G1H2R2C030BA</a>	<a href="#">CGA1A2C0G1E2R2C030BA</a>
	1005	0.50±0.05	±0.25pF	<a href="#">CGA2B2C0G1H2R2C050BA</a>	
	1608	0.80±0.10	±0.25pF	<a href="#">CGA3E2C0G1H2R2C080AA</a>	
3pF	0603	0.30±0.03	±0.25pF	<a href="#">CGA1A2C0G1H030C030BA</a>	<a href="#">CGA1A2C0G1E030C030BA</a>
	1005	0.50±0.05	±0.25pF	<a href="#">CGA2B2C0G1H030C050BA</a>	
	1608	0.80±0.10	±0.25pF	<a href="#">CGA3E2C0G1H030C080AA</a>	
3.3pF	0603	0.30±0.03	±0.25pF	<a href="#">CGA1A2C0G1H3R3C030BA</a>	<a href="#">CGA1A2C0G1E3R3C030BA</a>
	1005	0.50±0.05	±0.25pF	<a href="#">CGA2B2C0G1H3R3C050BA</a>	
	1608	0.80±0.10	±0.25pF	<a href="#">CGA3E2C0G1H3R3C080AA</a>	
4pF	0603	0.30±0.03	±0.25pF	<a href="#">CGA1A2C0G1H040C030BA</a>	<a href="#">CGA1A2C0G1E040C030BA</a>
	1005	0.50±0.05	±0.25pF	<a href="#">CGA2B2C0G1H040C050BA</a>	
	1608	0.80±0.10	±0.25pF	<a href="#">CGA3E2C0G1H040C080AA</a>	
4.7pF	0603	0.30±0.03	±0.25pF	<a href="#">CGA1A2C0G1H4R7C030BA</a>	<a href="#">CGA1A2C0G1E4R7C030BA</a>
	1005	0.50±0.05	±0.25pF	<a href="#">CGA2B2C0G1H4R7C050BA</a>	
	1608	0.80±0.10	±0.25pF	<a href="#">CGA3E2C0G1H4R7C080AA</a>	
5pF	0603	0.30±0.03	±0.25pF	<a href="#">CGA1A2C0G1H050C030BA</a>	<a href="#">CGA1A2C0G1E050C030BA</a>
	1005	0.50±0.05	±0.25pF	<a href="#">CGA2B2C0G1H050C050BA</a>	
	1608	0.80±0.10	±0.25pF	<a href="#">CGA3E2C0G1H050C080AA</a>	
6pF	0603	0.30±0.03	±0.50pF	<a href="#">CGA1A2C0G1H060D030BA</a>	<a href="#">CGA1A2C0G1E060D030BA</a>
	1005	0.50±0.05	±0.50pF	<a href="#">CGA2B2C0G1H060D050BA</a>	
	1608	0.80±0.10	±0.50pF	<a href="#">CGA3E2C0G1H060D080AA</a>	
6.8pF	0603	0.30±0.03	±0.50pF	<a href="#">CGA1A2C0G1H6R8D030BA</a>	<a href="#">CGA1A2C0G1E6R8D030BA</a>
	1005	0.50±0.05	±0.50pF	<a href="#">CGA2B2C0G1H6R8D050BA</a>	
	1608	0.80±0.10	±0.50pF	<a href="#">CGA3E2C0G1H6R8D080AA</a>	
7pF	0603	0.30±0.03	±0.50pF	<a href="#">CGA1A2C0G1H070D030BA</a>	<a href="#">CGA1A2C0G1E070D030BA</a>
	1005	0.50±0.05	±0.50pF	<a href="#">CGA2B2C0G1H070D050BA</a>	
	1608	0.80±0.10	±0.50pF	<a href="#">CGA3E2C0G1H070D080AA</a>	
8pF	0603	0.30±0.03	±0.50pF	<a href="#">CGA1A2C0G1H080D030BA</a>	<a href="#">CGA1A2C0G1E080D030BA</a>
	1005	0.50±0.05	±0.50pF	<a href="#">CGA2B2C0G1H080D050BA</a>	
	1608	0.80±0.10	±0.50pF	<a href="#">CGA3E2C0G1H080D080AA</a>	
9pF	0603	0.30±0.03	±0.50pF	<a href="#">CGA1A2C0G1H090D030BA</a>	<a href="#">CGA1A2C0G1E090D030BA</a>
	1005	0.50±0.05	±0.50pF	<a href="#">CGA2B2C0G1H090D050BA</a>	
	1608	0.80±0.10	±0.50pF	<a href="#">CGA3E2C0G1H090D080AA</a>	
10pF	0603	0.30±0.03	±0.50pF	<a href="#">CGA1A2C0G1H100D030BA</a>	<a href="#">CGA1A2C0G1E100D030BA</a>
	1005	0.50±0.05	±0.50pF	<a href="#">CGA2B2C0G1H100D050BA</a>	
	1608	0.80±0.10	±0.50pF	<a href="#">CGA3E2C0G1H100D080AA</a>	
12pF	0603	0.30±0.03	±5%	<a href="#">CGA1A2C0G1H120J030BA</a>	<a href="#">CGA1A2C0G1E120J030BA</a>
	1005	0.50±0.05	±5%	<a href="#">CGA2B2C0G1H120J050BA</a>	
	1608	0.80±0.10	±5%	<a href="#">CGA3E2C0G1H120J080AA</a>	
15pF	0603	0.30±0.03	±5%	<a href="#">CGA1A2C0G1H150J030BA</a>	<a href="#">CGA1A2C0G1E150J030BA</a>
	1005	0.50±0.05	±5%	<a href="#">CGA2B2C0G1H150J050BA</a>	
	1608	0.80±0.10	±5%	<a href="#">CGA3E2C0G1H150J080AA</a>	
18pF	0603	0.30±0.03	±5%	<a href="#">CGA1A2C0G1H180J030BA</a>	<a href="#">CGA1A2C0G1E180J030BA</a>
	1005	0.50±0.05	±5%	<a href="#">CGA2B2C0G1H180J050BA</a>	
	1608	0.80±0.10	±5%	<a href="#">CGA3E2C0G1H180J080AA</a>	
22pF	0603	0.30±0.03	±5%	<a href="#">CGA1A2C0G1H220J030BA</a>	<a href="#">CGA1A2C0G1E220J030BA</a>
	1005	0.50±0.05	±5%	<a href="#">CGA2B2C0G1H220J050BA</a>	
	1608	0.80±0.10	±5%	<a href="#">CGA3E2C0G1H220J080AA</a>	
27pF	0603	0.30±0.03	±5%	<a href="#">CGA1A2C0G1H270J030BA</a>	<a href="#">CGA1A2C0G1E270J030BA</a>
	1005	0.50±0.05	±5%	<a href="#">CGA2B2C0G1H270J050BA</a>	
	1608	0.80±0.10	±5%	<a href="#">CGA3E2C0G1H270J080AA</a>	
33pF	0603	0.30±0.03	±5%	<a href="#">CGA1A2C0G1H330J030BA</a>	<a href="#">CGA1A2C0G1E330J030BA</a>
	1005	0.50±0.05	±5%	<a href="#">CGA2B2C0G1H330J050BA</a>	
	1608	0.80±0.10	±5%	<a href="#">CGA3E2C0G1H330J080AA</a>	
39pF	0603	0.30±0.03	±5%	<a href="#">CGA1A2C0G1H390J030BA</a>	<a href="#">CGA1A2C0G1E390J030BA</a>
	1005	0.50±0.05	±5%	<a href="#">CGA2B2C0G1H390J050BA</a>	
	1608	0.80±0.10	±5%	<a href="#">CGA3E2C0G1H390J080AA</a>	
47pF	0603	0.30±0.03	±5%	<a href="#">CGA1A2C0G1H470J030BA</a>	<a href="#">CGA1A2C0G1E470J030BA</a>
	1005	0.50±0.05	±5%	<a href="#">CGA2B2C0G1H470J050BA</a>	
	1608	0.80±0.10	±5%	<a href="#">CGA3E2C0G1H470J080AA</a>	

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: 50V	Rated voltage Edc: 25V
56pF	0603	0.30±0.03	±5%	<a href="#">CGA1A2C0G1H560J030BA</a>	<a href="#">CGA1A2C0G1E560J030BA</a>
	1005	0.50±0.05	±5%	<a href="#">CGA2B2C0G1H560J050BA</a>	
	1608	0.80±0.10	±5%	<a href="#">CGA3E2C0G1H560J080AA</a>	
68pF	0603	0.30±0.03	±5%	<a href="#">CGA1A2C0G1H680J030BA</a>	<a href="#">CGA1A2C0G1E680J030BA</a>
	1005	0.50±0.05	±5%	<a href="#">CGA2B2C0G1H680J050BA</a>	
	1608	0.80±0.10	±5%	<a href="#">CGA3E2C0G1H680J080AA</a>	
82pF	0603	0.30±0.03	±5%	<a href="#">CGA1A2C0G1H820J030BA</a>	<a href="#">CGA1A2C0G1E820J030BA</a>
	1005	0.50±0.05	±5%	<a href="#">CGA2B2C0G1H820J050BA</a>	
	1608	0.80±0.10	±5%	<a href="#">CGA3E2C0G1H820J080AA</a>	
100pF	0603	0.30±0.03	±5%	<a href="#">CGA1A2C0G1H101J030BA</a>	<a href="#">CGA1A2C0G1E101J030BA</a>
	1005	0.50±0.05	±5%	<a href="#">CGA2B2C0G1H101J050BA</a>	
	1608	0.80±0.10	±5%	<a href="#">CGA3E2C0G1H101J080AA</a>	
120pF	1005	0.50±0.05	±5%	<a href="#">CGA2B2C0G1H121J050BA</a>	
	1608	0.80±0.10	±5%	<a href="#">CGA3E2C0G1H121J080AA</a>	
	1005	0.50±0.05	±5%	<a href="#">CGA2B2C0G1H151J050BA</a>	
150pF	1608	0.80±0.10	±5%	<a href="#">CGA3E2C0G1H151J080AA</a>	
	1005	0.50±0.05	±5%	<a href="#">CGA2B2C0G1H181J050BA</a>	
180pF	1608	0.80±0.10	±5%	<a href="#">CGA3E2C0G1H181J080AA</a>	
	1005	0.50±0.05	±5%	<a href="#">CGA2B2C0G1H221J050BA</a>	
220pF	1608	0.80±0.10	±5%	<a href="#">CGA3E2C0G1H221J080AA</a>	
	1005	0.50±0.05	±5%	<a href="#">CGA2B2C0G1H271J050BA</a>	
270pF	1608	0.80±0.10	±5%	<a href="#">CGA3E2C0G1H271J080AA</a>	
	1005	0.50±0.05	±5%	<a href="#">CGA2B2C0G1H331J050BA</a>	
330pF	1608	0.80±0.10	±5%	<a href="#">CGA3E2C0G1H331J080AA</a>	
	1005	0.50±0.05	±5%	<a href="#">CGA2B2C0G1H391J050BA</a>	
390pF	1608	0.80±0.10	±5%	<a href="#">CGA3E2C0G1H391J080AA</a>	
	1005	0.50±0.05	±5%	<a href="#">CGA2B2C0G1H471J050BA</a>	
470pF	1608	0.80±0.10	±5%	<a href="#">CGA3E2C0G1H471J080AA</a>	
	1005	0.50±0.05	±5%	<a href="#">CGA2B2C0G1H561J050BA</a>	
560pF	1608	0.80±0.10	±5%	<a href="#">CGA3E2C0G1H561J080AA</a>	
	1005	0.50±0.05	±5%	<a href="#">CGA2B2C0G1H681J050BA</a>	
680pF	1608	0.80±0.10	±5%	<a href="#">CGA3E2C0G1H681J080AA</a>	
	1005	0.50±0.05	±5%	<a href="#">CGA2B2C0G1H821J050BA</a>	
820pF	1608	0.80±0.10	±5%	<a href="#">CGA3E2C0G1H821J080AA</a>	
	1005	0.50±0.05	±5%	<a href="#">CGA2B2C0G1H102J050BA</a>	
1nF	1608	0.80±0.10	±5%	<a href="#">CGA3E2C0G1H102J080AA</a>	
	2012	0.60±0.15	±5%	<a href="#">CGA4C2C0G1H102J060AA</a>	
1.2nF	1608	0.80±0.10	±5%	<a href="#">CGA3E2C0G1H122J080AA</a>	
	2012	0.60±0.15	±5%	<a href="#">CGA4C2C0G1H122J060AA</a>	
1.5nF	1608	0.80±0.10	±5%	<a href="#">CGA3E2C0G1H152J080AA</a>	
	2012	0.60±0.15	±5%	<a href="#">CGA4C2C0G1H152J060AA</a>	
1.8nF	1608	0.80±0.10	±5%	<a href="#">CGA3E2C0G1H182J080AA</a>	
	2012	0.60±0.15	±5%	<a href="#">CGA4C2C0G1H182J060AA</a>	
2.2nF	1608	0.80±0.10	±5%	<a href="#">CGA3E2C0G1H222J080AA</a>	
	2012	0.60±0.15	±5%	<a href="#">CGA4C2C0G1H222J060AA</a>	
2.7nF	1608	0.80±0.10	±5%	<a href="#">CGA3E2C0G1H272J080AA</a>	
	2012	0.60±0.15	±5%	<a href="#">CGA4C2C0G1H272J060AA</a>	
3.3nF	1608	0.80±0.10	±5%	<a href="#">CGA3E2C0G1H332J080AA</a>	
	2012	0.60±0.15	±5%	<a href="#">CGA4C2C0G1H332J060AA</a>	
3.9nF	1608	0.80±0.10	±5%	<a href="#">CGA3E2C0G1H392J080AA</a>	
	2012	0.60±0.15	±5%	<a href="#">CGA4C2C0G1H392J060AA</a>	
4.7nF	1608	0.80±0.10	±5%	<a href="#">CGA3E2C0G1H472J080AA</a>	
	2012	0.60±0.15	±5%	<a href="#">CGA4C2C0G1H472J060AA</a>	
5.6nF	3216	0.60±0.15	±5%	<a href="#">CGA5C2C0G1H472J060AA</a>	
	1608	0.80±0.10	±5%	<a href="#">CGA3E2C0G1H562J080AA</a>	
6.8nF	2012	0.60±0.15	±5%	<a href="#">CGA4C2C0G1H562J060AA</a>	
	3216	0.60±0.15	±5%	<a href="#">CGA5C2C0G1H682J060AA</a>	
8.2nF	1608	0.80±0.10	±5%	<a href="#">CGA3E2C0G1H822J080AA</a>	
	2012	0.60±0.15	±5%	<a href="#">CGA4C2C0G1H822J060AA</a>	
10nF	1608	0.80±0.10	±5%	<a href="#">CGA3E2C0G1H103J080AA</a>	
	2012	0.60±0.15	±5%	<a href="#">CGA4C2C0G1H103J060AA</a>	
15nF	3216	0.60±0.15	±5%	<a href="#">CGA5C2C0G1H103J060AA</a>	
	2012	0.85±0.15	±5%	<a href="#">CGA4F2C0G1H153J085AA</a>	
	3216	0.60±0.15	±5%	<a href="#">CGA5C2C0G1H153J060AA</a>	

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

Click the part numbers for details.

⚠ 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



## Capacitance range table

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

Capacitance	Dimensions	Thickness (mm)	Capacitance tolerance	Catalog number
				Rated voltage Edc: 50V
22nF	2012	1.25±0.20	±5%	<a href="#">CGA4J2C0G1H223J125AA</a>
	3216	0.60±0.15	±5%	<a href="#">CGA5C2C0G1H223J060AA</a>
	3225	1.25±0.20	±5%	<a href="#">CGA6J2C0G1H223J125AA</a>
33nF	2012	1.25±0.20	±5%	<a href="#">CGA4J2C0G1H333J125AA</a>
	3216	0.85±0.15	±5%	<a href="#">CGA5F2C0G1H333J085AA</a>
	3225	1.60±0.20	±5%	<a href="#">CGA6L2C0G1H333J160AA</a>
47nF	3216	1.15±0.15	±5%	<a href="#">CGA5H2C0G1H473J115AA</a>
	3225	2.00±0.20	±5%	<a href="#">CGA6M2C0G1H473J200AA</a>
	4532	1.60±0.20	±5%	<a href="#">CGA8L2C0G1H473J160KA</a>
68nF	3216	1.60±0.20	±5%	<a href="#">CGA5L2C0G1H683J160AA</a>
	3225	2.00±0.20	±5%	<a href="#">CGA6M2C0G1H683J200AA</a>
	4532	1.60±0.20	±5%	<a href="#">CGA8L2C0G1H683J160KA</a>
100nF	3216	1.60±0.20	±5%	<a href="#">CGA5L2C0G1H104J160AA</a>
	3225	2.50±0.30	±5%	<a href="#">CGA6P2C0G1H104J250AA</a>
	4532	2.00±0.20	±5%	<a href="#">CGA8M2C0G1H104J200KA</a>
150nF	4532	2.50±0.30	±5%	<a href="#">CGA8P2C0G1H154J250KA</a>
220nF	4532	3.20±0.30	±5%	<a href="#">CGA8R2C0G1H224J320KA</a>

■ 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: X5R (-55 to +85 °C ,±15%)

Capacitance	Dimensions	Thickness (mm)	Capacitance tolerance	Catalog number		
				Rated voltage Edc: 50V	Rated voltage Edc: 35V	Rated voltage Edc: 25V
220pF	1005	0.50±0.05	±10%	<a href="#">CGA2B2X5R1H221K050BA</a>		
			±20%	<a href="#">CGA2B2X5R1H221M050BA</a>		
330pF	1005	0.50±0.05	±10%	<a href="#">CGA2B2X5R1H331K050BA</a>		
			±20%	<a href="#">CGA2B2X5R1H331M050BA</a>		
470pF	1005	0.50±0.05	±10%	<a href="#">CGA2B2X5R1H471K050BA</a>		
			±20%	<a href="#">CGA2B2X5R1H471M050BA</a>		
680pF	1005	0.50±0.05	±10%	<a href="#">CGA2B2X5R1H681K050BA</a>		
			±20%	<a href="#">CGA2B2X5R1H681M050BA</a>		
1nF	1005	0.50±0.05	±10%	<a href="#">CGA2B2X5R1H102K050BA</a>		
			±20%	<a href="#">CGA2B2X5R1H102M050BA</a>		
			±10%	<a href="#">CGA3E2X5R1H102K080AA</a>		
1.5nF	1005	0.50±0.05	±20%	<a href="#">CGA3E2X5R1H102M080AA</a>		
			±10%	<a href="#">CGA2B2X5R1H152K050BA</a>		
			±20%	<a href="#">CGA2B2X5R1H152M050BA</a>		
2.2nF	1608	0.80±0.10	±10%	<a href="#">CGA3E2X5R1H152K080AA</a>		
			±20%	<a href="#">CGA3E2X5R1H152M080AA</a>		
			±10%	<a href="#">CGA2B2X5R1H222K050BA</a>		
3.3nF	1005	0.50±0.05	±20%	<a href="#">CGA2B2X5R1H222M050BA</a>		
			±10%	<a href="#">CGA3E2X5R1H222K080AA</a>		
			±20%	<a href="#">CGA3E2X5R1H222M080AA</a>		
4.7nF	1608	0.80±0.10	±10%	<a href="#">CGA2B2X5R1H332K050BA</a>		
			±20%	<a href="#">CGA2B2X5R1H332M050BA</a>		
			±10%	<a href="#">CGA3E2X5R1H332K080AA</a>		
6.8nF	1005	0.50±0.05	±20%	<a href="#">CGA3E2X5R1H332M080AA</a>		
			±10%	<a href="#">CGA2B2X5R1H472K050BA</a>		
			±20%	<a href="#">CGA2B2X5R1H472M050BA</a>		
8.8nF	1608	0.80±0.10	±10%	<a href="#">CGA3E2X5R1H472K080AA</a>		
			±20%	<a href="#">CGA3E2X5R1H472M080AA</a>		
			±10%	<a href="#">CGA2B2X5R1H682K050BA</a>		
10nF	1005	0.50±0.05	±20%	<a href="#">CGA2B2X5R1H682M050BA</a>		
			±10%	<a href="#">CGA3E2X5R1H682K080AA</a>		
			±20%	<a href="#">CGA3E2X5R1H682M080AA</a>		
15nF	1608	0.80±0.10	±10%	<a href="#">CGA2B3X5R1V103K050BB</a>	<a href="#">CGA2B3X5R1V103K050BB</a>	<a href="#">CGA2B2X5R1E103K050BA</a>
			±20%	<a href="#">CGA2B3X5R1H103M050BB</a>	<a href="#">CGA2B3X5R1V103M050BB</a>	<a href="#">CGA2B2X5R1E103M050BA</a>
			±10%	<a href="#">CGA3E2X5R1H103K080AA</a>		
22nF	1005	0.50±0.05	±20%	<a href="#">CGA3E2X5R1H103M080AA</a>		
			±10%	<a href="#">CGA2B3X5R1H153K050BB</a>	<a href="#">CGA2B3X5R1V153K050BB</a>	<a href="#">CGA2B2X5R1E153K050BA</a>
			±20%	<a href="#">CGA2B3X5R1H153M050BB</a>	<a href="#">CGA2B3X5R1V153M050BB</a>	<a href="#">CGA2B2X5R1E153M050BA</a>
33nF	1608	0.80±0.10	±10%	<a href="#">CGA3E2X5R1H153K080AA</a>		
			±20%	<a href="#">CGA3E2X5R1H153M080AA</a>		
			±10%	<a href="#">CGA2B3X5R1H223K050BB</a>	<a href="#">CGA2B3X5R1V223K050BB</a>	<a href="#">CGA2B2X5R1E223K050BA</a>
47nF	1005	0.50±0.05	±20%	<a href="#">CGA2B3X5R1H223M050BB</a>	<a href="#">CGA2B3X5R1V223M050BB</a>	<a href="#">CGA2B2X5R1E223M050BA</a>
			±10%	<a href="#">CGA3E2X5R1H223K080AA</a>		
			±20%	<a href="#">CGA3E2X5R1H223M080AA</a>		
68nF	1608	0.80±0.10	±10%	<a href="#">CGA2B3X5R1H333K050BB</a>	<a href="#">CGA2B3X5R1V333K050BB</a>	<a href="#">CGA2B2X5R1E333K050BA</a>
			±20%	<a href="#">CGA2B3X5R1H333M050BB</a>	<a href="#">CGA2B3X5R1V333M050BB</a>	<a href="#">CGA2B2X5R1E333M050BA</a>
			±10%	<a href="#">CGA3E2X5R1H333K080AA</a>		
100nF	1005	0.50±0.05	±20%	<a href="#">CGA3E2X5R1H333M080AA</a>		
			±10%	<a href="#">CGA2B3X5R1H473K050BB</a>	<a href="#">CGA2B3X5R1V473K050BB</a>	<a href="#">CGA2B2X5R1E473K050BA</a>
			±20%	<a href="#">CGA2B3X5R1H473M050BB</a>	<a href="#">CGA2B3X5R1V473M050BB</a>	<a href="#">CGA2B2X5R1E473M050BA</a>
150nF	1608	0.80±0.10	±10%	<a href="#">CGA3E2X5R1H473K080AA</a>		
			±20%	<a href="#">CGA3E2X5R1H473M080AA</a>		
			±10%	<a href="#">CGA2B3X5R1H683K050BB</a>	<a href="#">CGA2B3X5R1V683K050BB</a>	<a href="#">CGA2B3X5R1E683K050BB</a>
220nF	1005	0.50±0.05	±20%	<a href="#">CGA2B3X5R1H683M050BB</a>	<a href="#">CGA2B3X5R1V683M050BB</a>	<a href="#">CGA2B3X5R1E683M050BB</a>
			±10%	<a href="#">CGA3E2X5R1H683K080AA</a>		
			±20%	<a href="#">CGA3E2X5R1H683M080AA</a>		
330nF	1608	0.80±0.10	±10%	<a href="#">CGA2B3X5R1H104K050BB</a>	<a href="#">CGA2B3X5R1V104K050BB</a>	<a href="#">CGA2B3X5R1E104K050BB</a>
			±20%	<a href="#">CGA2B3X5R1H104M050BB</a>	<a href="#">CGA2B3X5R1V104M050BB</a>	<a href="#">CGA2B3X5R1E104M050BB</a>
			±10%	<a href="#">CGA3E2X5R1H104K080AA</a>		<a href="#">CGA3E2X5R1E104K080AA</a>
470nF	1005	0.50±0.05	±20%	<a href="#">CGA3E2X5R1H104M080AA</a>		<a href="#">CGA3E2X5R1E104M080AA</a>
			±10%	<a href="#">CGA3E3X5R1H154K080AB</a>	<a href="#">CGA3E3X5R1V154K080AB</a>	<a href="#">CGA3E2X5R1E154K080AA</a>
			±20%	<a href="#">CGA3E3X5R1H154M080AB</a>	<a href="#">CGA3E3X5R1V154M080AB</a>	<a href="#">CGA3E2X5R1E154M080AA</a>

■ 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: X5R (-55 to +85 °C ,±15%)

Capacitance	Dimensions	Thickness (mm)	Capacitance tolerance	Catalog number			
				Rated voltage Edc: 50V			
				Rated voltage Edc: 50V	Rated voltage Edc: 35V	Rated voltage Edc: 25V	
220nF	1608	0.80±0.10	±10%	<a href="#">CGA3E3X5R1H224K080AB</a>	<a href="#">CGA3E3X5R1V224K080AB</a>	<a href="#">CGA3E2X5R1E224K080AA</a>	
			±20%	<a href="#">CGA3E3X5R1H224M080AB</a>	<a href="#">CGA3E3X5R1V224M080AB</a>	<a href="#">CGA3E2X5R1E224M080AA</a>	
			±10%	<a href="#">CGA4J2X5R1H224K125AA</a>			
	2012	1.25±0.20	±10%	<a href="#">CGA4J2X5R1H224M125AA</a>			
			±20%	<a href="#">CGA4J2X5R1H224M125AA</a>			
			±10%	<a href="#">CGA3E3X5R1H334K080AB</a>	<a href="#">CGA3E3X5R1V334K080AB</a>	<a href="#">CGA3E3X5R1E334K080AB</a>	
330nF	1608	0.80±0.10	±10%	<a href="#">CGA3E3X5R1H334M080AB</a>	<a href="#">CGA3E3X5R1V334M080AB</a>	<a href="#">CGA3E3X5R1E334M080AB</a>	
			±20%	<a href="#">CGA3E3X5R1H334M080AB</a>	<a href="#">CGA3E3X5R1V334M080AB</a>	<a href="#">CGA3E3X5R1E334M080AB</a>	
			±10%	<a href="#">CGA4J2X5R1H334K125AA</a>			
	2012	1.25±0.20	±10%	<a href="#">CGA4J2X5R1H334M125AA</a>			
			±20%	<a href="#">CGA4J2X5R1H334M125AA</a>			
			±10%	<a href="#">CGA3E3X5R1H474K080AB</a>	<a href="#">CGA3E3X5R1V474K080AB</a>	<a href="#">CGA3E3X5R1E474K080AB</a>	
470nF	1608	0.80±0.10	±10%	<a href="#">CGA3E3X5R1H474M080AB</a>	<a href="#">CGA3E3X5R1V474M080AB</a>	<a href="#">CGA3E3X5R1E474M080AB</a>	
			±20%	<a href="#">CGA3E3X5R1H474M080AB</a>	<a href="#">CGA3E3X5R1V474M080AB</a>	<a href="#">CGA3E3X5R1E474M080AB</a>	
			±10%	<a href="#">CGA4J3X5R1H474K125AB</a>	<a href="#">CGA4J3X5R1V474K125AB</a>	<a href="#">CGA4J2X5R1E474K125AA</a>	
	2012	1.25±0.20	±10%	<a href="#">CGA4J3X5R1H474M125AB</a>	<a href="#">CGA4J3X5R1V474M125AB</a>	<a href="#">CGA4J2X5R1E474M125AA</a>	
			±20%	<a href="#">CGA4J3X5R1H474M125AB</a>	<a href="#">CGA4J3X5R1V474M125AB</a>	<a href="#">CGA4J2X5R1E474M125AA</a>	
			±10%	<a href="#">CGA5L2X5R1H474K160AA</a>			
3216	1.60+0.30,-0.10	±10%	<a href="#">CGA5L2X5R1H474M160AA</a>				
		±20%	<a href="#">CGA5L2X5R1H474M160AA</a>				
		±10%	<a href="#">CGA3E3X5R1H684K080AB</a>	<a href="#">CGA3E3X5R1V684K080AB</a>	<a href="#">CGA3E3X5R1E684K080AB</a>		
680nF	1608	0.80±0.10	±10%	<a href="#">CGA3E3X5R1H684M080AB</a>	<a href="#">CGA3E3X5R1V684M080AB</a>	<a href="#">CGA3E3X5R1E684M080AB</a>	
			±20%	<a href="#">CGA3E3X5R1H684M080AB</a>	<a href="#">CGA3E3X5R1V684M080AB</a>	<a href="#">CGA3E3X5R1E684M080AB</a>	
			±10%	<a href="#">CGA4J3X5R1H684K125AB</a>	<a href="#">CGA4J3X5R1V684K125AB</a>	<a href="#">CGA4J2X5R1E684K125AA</a>	
	2012	1.25±0.20	±10%	<a href="#">CGA4J3X5R1H684M125AB</a>	<a href="#">CGA4J3X5R1V684M125AB</a>	<a href="#">CGA4J2X5R1E684M125AA</a>	
			±20%	<a href="#">CGA4J3X5R1H684M125AB</a>	<a href="#">CGA4J3X5R1V684M125AB</a>	<a href="#">CGA4J2X5R1E684M125AA</a>	
			±10%	<a href="#">CGA5L2X5R1H684K160AA</a>			
3216	1.60+0.30,-0.10	±10%	<a href="#">CGA5L2X5R1H684M160AA</a>				
		±20%	<a href="#">CGA5L2X5R1H684M160AA</a>				
		±10%	<a href="#">CGA3E3X5R1H105K080AB</a>	<a href="#">CGA3E3X5R1V105K080AB</a>	<a href="#">CGA3E3X5R1E105K080AB</a>		
1µF	1608	0.80±0.10	±10%	<a href="#">CGA3E3X5R1H105M080AB</a>	<a href="#">CGA3E3X5R1V105M080AB</a>	<a href="#">CGA3E3X5R1E105M080AB</a>	
			±20%	<a href="#">CGA3E3X5R1H105M080AB</a>	<a href="#">CGA3E3X5R1V105M080AB</a>	<a href="#">CGA3E3X5R1E105M080AB</a>	
			±10%	<a href="#">CGA4J3X5R1H105K125AB</a>	<a href="#">CGA4J3X5R1V105K125AB</a>	<a href="#">CGA4J2X5R1E105K125AA</a>	
	2012	1.25±0.20	±10%	<a href="#">CGA4J3X5R1H105M125AB</a>	<a href="#">CGA4J3X5R1V105M125AB</a>	<a href="#">CGA4J2X5R1E105M125AA</a>	
			±20%	<a href="#">CGA4J3X5R1H105M125AB</a>	<a href="#">CGA4J3X5R1V105M125AB</a>	<a href="#">CGA4J2X5R1E105M125AA</a>	
			±10%	<a href="#">CGA5L2X5R1H105K160AA</a>			
3216	1.60+0.30,-0.10	±10%	<a href="#">CGA5L2X5R1H105M160AA</a>				
		±20%	<a href="#">CGA5L2X5R1H105M160AA</a>				
		±10%	<a href="#">CGA4J3X5R1H155K125AB</a>	<a href="#">CGA4J3X5R1V155K125AB</a>	<a href="#">CGA4J3X5R1E155K125AB</a>		
1.5µF	2012	1.25±0.20	±10%	<a href="#">CGA4J3X5R1H155M125AB</a>	<a href="#">CGA4J3X5R1V155M125AB</a>	<a href="#">CGA4J3X5R1E155M125AB</a>	
			±20%	<a href="#">CGA4J3X5R1H155M125AB</a>	<a href="#">CGA4J3X5R1V155M125AB</a>	<a href="#">CGA4J3X5R1E155M125AB</a>	
			±10%	<a href="#">CGA5L3X5R1H155K160AB</a>	<a href="#">CGA5L3X5R1V155K160AB</a>	<a href="#">CGA5L2X5R1E155K160AA</a>	
	3216	1.60+0.30,-0.10	±10%	<a href="#">CGA5L3X5R1H155M160AB</a>	<a href="#">CGA5L3X5R1V155M160AB</a>	<a href="#">CGA5L2X5R1E155M160AA</a>	
			±20%	<a href="#">CGA5L3X5R1H155M160AB</a>	<a href="#">CGA5L3X5R1V155M160AB</a>	<a href="#">CGA5L2X5R1E155M160AA</a>	
			±10%	<a href="#">CGA4J3X5R1H225K125AB</a>	<a href="#">CGA4J3X5R1V225K125AB</a>	<a href="#">CGA4J3X5R1E225K125AB</a>	
2.2µF	2012	1.25±0.20	±10%	<a href="#">CGA4J3X5R1H225M125AB</a>	<a href="#">CGA4J3X5R1V225M125AB</a>	<a href="#">CGA4J3X5R1E225M125AB</a>	
			±20%	<a href="#">CGA4J3X5R1H225M125AB</a>	<a href="#">CGA4J3X5R1V225M125AB</a>	<a href="#">CGA4J3X5R1E225M125AB</a>	
			±10%	<a href="#">CGA5L3X5R1H225K160AB</a>	<a href="#">CGA5L3X5R1V225K160AB</a>	<a href="#">CGA5L2X5R1E225K160AA</a>	
	3216	1.60+0.30,-0.10	±10%	<a href="#">CGA5L3X5R1H225M160AB</a>	<a href="#">CGA5L3X5R1V225M160AB</a>	<a href="#">CGA5L2X5R1E225M160AA</a>	
			±20%	<a href="#">CGA5L3X5R1H225M160AB</a>	<a href="#">CGA5L3X5R1V225M160AB</a>	<a href="#">CGA5L2X5R1E225M160AA</a>	
			±10%	<a href="#">CGA4J3X5R1H335K125AB</a>	<a href="#">CGA4J3X5R1V335K125AB</a>	<a href="#">CGA4J3X5R1E335K125AB</a>	
3.3µF	2012	1.25±0.20	±10%	<a href="#">CGA4J3X5R1H335M125AB</a>	<a href="#">CGA4J3X5R1V335M125AB</a>	<a href="#">CGA4J3X5R1E335M125AB</a>	
			±20%	<a href="#">CGA4J3X5R1H335M125AB</a>	<a href="#">CGA4J3X5R1V335M125AB</a>	<a href="#">CGA4J3X5R1E335M125AB</a>	
			±10%	<a href="#">CGA5L3X5R1H335K160AB</a>	<a href="#">CGA5L3X5R1V335K160AB</a>	<a href="#">CGA5L2X5R1E335K160AA</a>	
	3216	1.60+0.30,-0.10	±10%	<a href="#">CGA5L3X5R1H335M160AB</a>	<a href="#">CGA5L3X5R1V335M160AB</a>	<a href="#">CGA5L2X5R1E335M160AA</a>	
			±20%	<a href="#">CGA5L3X5R1H335M160AB</a>	<a href="#">CGA5L3X5R1V335M160AB</a>	<a href="#">CGA5L2X5R1E335M160AA</a>	
			±10%	<a href="#">CGA4J3X5R1H475K125AB</a>	<a href="#">CGA4J3X5R1V475K125AB</a>	<a href="#">CGA4J3X5R1E475K125AB</a>	
4.7µF	2012	1.25±0.20	±10%	<a href="#">CGA4J3X5R1H475M125AB</a>	<a href="#">CGA4J3X5R1V475M125AB</a>	<a href="#">CGA4J3X5R1E475M125AB</a>	
			±20%	<a href="#">CGA4J3X5R1H475M125AB</a>	<a href="#">CGA4J3X5R1V475M125AB</a>	<a href="#">CGA4J3X5R1E475M125AB</a>	
			±10%	<a href="#">CGA5L3X5R1H475K160AB</a>	<a href="#">CGA5L3X5R1V475K160AB</a>	<a href="#">CGA5L2X5R1E475K160AA</a>	
	3216	1.60+0.30,-0.10	±10%	<a href="#">CGA5L3X5R1H475M160AB</a>	<a href="#">CGA5L3X5R1V475M160AB</a>	<a href="#">CGA5L2X5R1E475M160AA</a>	
			±20%	<a href="#">CGA5L3X5R1H475M160AB</a>	<a href="#">CGA5L3X5R1V475M160AB</a>	<a href="#">CGA5L2X5R1E475M160AA</a>	
			±10%	<a href="#">CGA5L3X5R1H685K160AB</a>	<a href="#">CGA5L3X5R1V685K160AB</a>	<a href="#">CGA5L3X5R1E685K160AB</a>	
6.8µF	3216	1.60+0.30,-0.10	±10%	<a href="#">CGA5L3X5R1H685M160AB</a>	<a href="#">CGA5L3X5R1V685M160AB</a>	<a href="#">CGA5L3X5R1E685M160AB</a>	
			±20%	<a href="#">CGA5L3X5R1H685M160AB</a>	<a href="#">CGA5L3X5R1V685M160AB</a>	<a href="#">CGA5L3X5R1E685M160AB</a>	
			±10%	<a href="#">CGA5L3X5R1H106K160AB</a>	<a href="#">CGA5L3X5R1V106K160AB</a>	<a href="#">CGA5L3X5R1E106K160AB</a>	
	10µF	3216	1.60+0.30,-0.10	±10%	<a href="#">CGA5L3X5R1H106M160AB</a>	<a href="#">CGA5L3X5R1V106M160AB</a>	<a href="#">CGA5L3X5R1E106M160AB</a>
				±20%	<a href="#">CGA5L3X5R1H106M160AB</a>	<a href="#">CGA5L3X5R1V106M160AB</a>	<a href="#">CGA5L3X5R1E106M160AB</a>
				±10%	<a href="#">CGA5L3X5R1H106M160AB</a>	<a href="#">CGA5L3X5R1V106M160AB</a>	<a href="#">CGA5L3X5R1E106M160AB</a>

■ Gray items: These products are not recommended for new designs.  
Click the part numbers for details.

⚠ 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



## Capacitance range table

Temperature characteristic: X5R (-55 to +85 °C ,±15%)

Capacitance	Dimensions	Thickness (mm)	Capacitance tolerance	Catalog number		
				Rated voltage Edc: 16V	Rated voltage Edc: 10V	Rated voltage Edc: 6.3V
33nF	1005	0.50±0.05	±10%	<a href="#">CGA2B2X5R1C333K050BA</a>		
			±20%	<a href="#">CGA2B2X5R1C333M050BA</a>		
47nF	1005	0.50±0.05	±10%	<a href="#">CGA2B2X5R1C473K050BA</a>		
			±20%	<a href="#">CGA2B2X5R1C473M050BA</a>		
68nF	1005	0.50±0.05	±10%	<a href="#">CGA2B2X5R1C683K050BA</a>		
			±20%	<a href="#">CGA2B2X5R1C683M050BA</a>		
100nF	1005	0.50±0.05	±10%	<a href="#">CGA2B2X5R1C104K050BA</a>	<a href="#">CGA2B2X5R1A104K050BA</a>	
			±20%	<a href="#">CGA2B2X5R1C104M050BA</a>	<a href="#">CGA2B2X5R1A104M050BA</a>	
150nF	1005	0.50±0.05	±10%	<a href="#">CGA2B1X5R1C154K050BC</a>	<a href="#">CGA2B3X5R1A154K050BB</a>	
			±20%	<a href="#">CGA2B1X5R1C154M050BC</a>	<a href="#">CGA2B3X5R1A154M050BB</a>	
220nF	1005	0.50±0.05	±10%	<a href="#">CGA2B1X5R1C224K050BC</a>	<a href="#">CGA2B3X5R1A224K050BB</a>	
			±20%	<a href="#">CGA2B1X5R1C224M050BC</a>	<a href="#">CGA2B3X5R1A224M050BB</a>	
	1608	0.80±0.10	±10%	<a href="#">CGA3E2X5R1C224K080AA</a>		
			±20%	<a href="#">CGA3E2X5R1C224M080AA</a>		
330nF	1608	0.80±0.10	±10%	<a href="#">CGA3E2X5R1C334K080AA</a>	<a href="#">CGA3E2X5R1A334K080AA</a>	
			±20%	<a href="#">CGA3E2X5R1C334M080AA</a>	<a href="#">CGA3E2X5R1A334M080AA</a>	
470nF	1608	0.80±0.10	±10%	<a href="#">CGA3E2X5R1C474K080AA</a>	<a href="#">CGA3E2X5R1A474K080AA</a>	
			±20%	<a href="#">CGA3E2X5R1C474M080AA</a>	<a href="#">CGA3E2X5R1A474M080AA</a>	
680nF	1608	0.80±0.10	±10%	<a href="#">CGA3E2X5R1C684K080AA</a>	<a href="#">CGA3E2X5R1A684K080AA</a>	
			±20%	<a href="#">CGA3E2X5R1C684M080AA</a>	<a href="#">CGA3E2X5R1A684M080AA</a>	
	2012	1.25±0.20	±10%	<a href="#">CGA4J2X5R1C684K125AA</a>		
			±20%	<a href="#">CGA4J2X5R1C684M125AA</a>		
1µF	1608	0.80±0.10	±10%	<a href="#">CGA3E1X5R1C105K080AC</a>	<a href="#">CGA3E2X5R1A105K080AA</a>	
			±20%	<a href="#">CGA3E1X5R1C105M080AC</a>	<a href="#">CGA3E2X5R1A105M080AA</a>	
	2012	1.25±0.20	±10%	<a href="#">CGA4J2X5R1C105K125AA</a>		
			±20%	<a href="#">CGA4J2X5R1C105M125AA</a>		
1.5µF	1608	0.80±0.10	±10%	<a href="#">CGA3E1X5R1C155K080AC</a>	<a href="#">CGA3E3X5R1A155K080AB</a>	
			±20%	<a href="#">CGA3E1X5R1C155M080AC</a>	<a href="#">CGA3E3X5R1A155M080AB</a>	
	2012	1.25±0.20	±10%	<a href="#">CGA4J2X5R1C155K125AA</a>	<a href="#">CGA4J2X5R1A155K125AA</a>	
			±20%	<a href="#">CGA4J2X5R1C155M125AA</a>	<a href="#">CGA4J2X5R1A155M125AA</a>	
2.2µF	1608	0.80±0.10	±10%	<a href="#">CGA3E1X5R1C225K080AC</a>	<a href="#">CGA3E3X5R1A225K080AB</a>	
			±20%	<a href="#">CGA3E1X5R1C225M080AC</a>	<a href="#">CGA3E3X5R1A225M080AB</a>	
	2012	1.25±0.20	±10%	<a href="#">CGA4J2X5R1C225K125AA</a>	<a href="#">CGA4J2X5R1A225K125AA</a>	
			±20%	<a href="#">CGA4J2X5R1C225M125AA</a>	<a href="#">CGA4J2X5R1A225M125AA</a>	
3.3µF	1608	0.80±0.10	±10%	<a href="#">CGA3E1X5R1A335K080AC</a>	<a href="#">CGA3E3X5R0J335K080AB</a>	
			±20%	<a href="#">CGA3E1X5R1A335M080AC</a>	<a href="#">CGA3E3X5R0J335M080AB</a>	
	2012	1.25±0.20	±10%	<a href="#">CGA4J3X5R1C335K125AB</a>	<a href="#">CGA4J2X5R1A335K125AA</a>	
			±20%	<a href="#">CGA4J3X5R1C335M125AB</a>	<a href="#">CGA4J2X5R1A335M125AA</a>	
	1608	0.80±0.10	±10%		<a href="#">CGA3E1X5R0J475K080AC</a>	
			±20%		<a href="#">CGA3E1X5R0J475M080AC</a>	
4.7µF	2012	1.25±0.20	±10%	<a href="#">CGA4J3X5R1C475K125AB</a>	<a href="#">CGA4J2X5R1A475K125AA</a>	
			±20%	<a href="#">CGA4J3X5R1C475M125AB</a>	<a href="#">CGA4J2X5R1A475M125AA</a>	
	3216	1.60+0.30,-0.10	±10%	<a href="#">CGA5L2X5R1C475K160AA</a>		
			±20%	<a href="#">CGA5L2X5R1C475M160AA</a>		
6.8µF	2012	1.25±0.20	±10%	<a href="#">CGA4J1X5R1C685K125AC</a>	<a href="#">CGA4J3X5R1A685K125AB</a>	
			±20%	<a href="#">CGA4J1X5R1C685M125AC</a>	<a href="#">CGA4J3X5R1A685M125AB</a>	
	3216	1.60+0.30,-0.10	±10%	<a href="#">CGA5L2X5R1C685K160AA</a>		
			±20%	<a href="#">CGA5L2X5R1C685M160AA</a>		
10µF	2012	1.25±0.20	±10%	<a href="#">CGA4J1X5R1C106K125AC</a>	<a href="#">CGA4J3X5R1A106K125AB</a>	
			±20%	<a href="#">CGA4J1X5R1C106M125AC</a>	<a href="#">CGA4J3X5R1A106M125AB</a>	
	3216	1.60+0.30,-0.10	±10%	<a href="#">CGA5L1X5R1C106K160AC</a>		
			±20%	<a href="#">CGA5L1X5R1C106M160AC</a>		
15µF	3216	1.60+0.30,-0.10	±20%	<a href="#">CGA5L1X5R1C156M160AC</a>		
22µF	3216	1.60+0.30,-0.10	±20%	<a href="#">CGA5L1X5R1C226M160AC</a>		

■ 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: X7R (-55 to +125 °C, ±15%)

Capacitance	Dimensions	Thickness (mm)	Capacitance tolerance	Catalog number		
				Rated voltage Edc: 50V		
				Rated voltage Edc: 50V	Rated voltage Edc: 35V	Rated voltage Edc: 25V
100pF	0603	0.30±0.03	±10%	<a href="#">CGA1A2X7R1H101K030BA</a>		<a href="#">CGA1A2X7R1E101K030BA</a>
			±20%	<a href="#">CGA1A2X7R1H101M030BA</a>		<a href="#">CGA1A2X7R1E101M030BA</a>
150pF	0603	0.30±0.03	±10%	<a href="#">CGA1A2X7R1H151K030BA</a>		<a href="#">CGA1A2X7R1E151K030BA</a>
			±20%	<a href="#">CGA1A2X7R1H151M030BA</a>		<a href="#">CGA1A2X7R1E151M030BA</a>
220pF	0603	0.30±0.03	±10%	<a href="#">CGA1A2X7R1H221K030BA</a>		<a href="#">CGA1A2X7R1E221K030BA</a>
			±20%	<a href="#">CGA1A2X7R1H221M030BA</a>		<a href="#">CGA1A2X7R1E221M030BA</a>
	1005	0.50±0.05	±10%	<a href="#">CGA2B2X7R1H221K050BA</a>		
			±20%	<a href="#">CGA2B2X7R1H221M050BA</a>		
330pF	0603	0.30±0.03	±10%	<a href="#">CGA1A2X7R1H331K030BA</a>		<a href="#">CGA1A2X7R1E331K030BA</a>
			±20%	<a href="#">CGA1A2X7R1H331M030BA</a>		<a href="#">CGA1A2X7R1E331M030BA</a>
	1005	0.50±0.05	±10%	<a href="#">CGA2B2X7R1H331K050BA</a>		
			±20%	<a href="#">CGA2B2X7R1H331M050BA</a>		
470pF	0603	0.30±0.03	±10%	<a href="#">CGA1A2X7R1H471K030BA</a>		<a href="#">CGA1A2X7R1E471K030BA</a>
			±20%	<a href="#">CGA1A2X7R1H471M030BA</a>		<a href="#">CGA1A2X7R1E471M030BA</a>
	1005	0.50±0.05	±10%	<a href="#">CGA2B2X7R1H471K050BA</a>		
			±20%	<a href="#">CGA2B2X7R1H471M050BA</a>		
680pF	0603	0.30±0.03	±10%			<a href="#">CGA1A2X7R1E681K030BA</a>
			±20%			<a href="#">CGA1A2X7R1E681M030BA</a>
	1005	0.50±0.05	±10%	<a href="#">CGA2B2X7R1H681K050BA</a>		
			±20%	<a href="#">CGA2B2X7R1H681M050BA</a>		
1nF	0603	0.30±0.03	±10%			<a href="#">CGA1A2X7R1E102K030BA</a>
			±20%			<a href="#">CGA1A2X7R1E102M030BA</a>
	1005	0.50±0.05	±10%	<a href="#">CGA2B2X7R1H102K050BA</a>		
			±20%	<a href="#">CGA2B2X7R1H102M050BA</a>		
	1608	0.80±0.10	±10%	<a href="#">CGA3E2X7R1H102K080AA</a>		
			±20%	<a href="#">CGA3E2X7R1H102M080AA</a>		
1.5nF	0603	0.30±0.03	±10%			<a href="#">CGA1A2X7R1E152K030BA</a>
			±20%			<a href="#">CGA1A2X7R1E152M030BA</a>
	1005	0.50±0.05	±10%	<a href="#">CGA2B2X7R1H152K050BA</a>		
			±20%	<a href="#">CGA2B2X7R1H152M050BA</a>		
	1608	0.80±0.10	±10%	<a href="#">CGA3E2X7R1H152K080AA</a>		
			±20%	<a href="#">CGA3E2X7R1H152M080AA</a>		
2.2nF	0603	0.30±0.03	±10%			<a href="#">CGA1A2X7R1E222K030BA</a>
			±20%			<a href="#">CGA1A2X7R1E222M030BA</a>
	1005	0.50±0.05	±10%	<a href="#">CGA2B2X7R1H222K050BA</a>		
			±20%	<a href="#">CGA2B2X7R1H222M050BA</a>		
	1608	0.80±0.10	±10%	<a href="#">CGA3E2X7R1H222K080AA</a>		
			±20%	<a href="#">CGA3E2X7R1H222M080AA</a>		
3.3nF	0603	0.30±0.03	±10%			<a href="#">CGA1A2X7R1E332K030BA</a>
			±20%			<a href="#">CGA1A2X7R1E332M030BA</a>
	1005	0.50±0.05	±10%	<a href="#">CGA2B2X7R1H332K050BA</a>		
			±20%	<a href="#">CGA2B2X7R1H332M050BA</a>		
	1608	0.80±0.10	±10%	<a href="#">CGA3E2X7R1H332K080AA</a>		
			±20%	<a href="#">CGA3E2X7R1H332M080AA</a>		
4.7nF	1005	0.50±0.05	±10%	<a href="#">CGA2B2X7R1H472K050BA</a>		
			±20%	<a href="#">CGA2B2X7R1H472M050BA</a>		
	1608	0.80±0.10	±10%	<a href="#">CGA3E2X7R1H472K080AA</a>		
			±20%	<a href="#">CGA3E2X7R1H472M080AA</a>		
6.8nF	1005	0.50±0.05	±10%	<a href="#">CGA2B2X7R1H682K050BA</a>		
			±20%	<a href="#">CGA2B2X7R1H682M050BA</a>		
	1608	0.80±0.10	±10%	<a href="#">CGA3E2X7R1H682K080AA</a>		
			±20%	<a href="#">CGA3E2X7R1H682M080AA</a>		
10nF	1005	0.50±0.05	±10%	<a href="#">CGA2B3X7R1H103K050BB</a>	<a href="#">CGA2B3X7R1V103K050BB</a>	<a href="#">CGA2B2X7R1E103K050BA</a>
			±20%	<a href="#">CGA2B3X7R1H103M050BB</a>	<a href="#">CGA2B3X7R1V103M050BB</a>	<a href="#">CGA2B2X7R1E103M050BA</a>
	1608	0.80±0.10	±10%	<a href="#">CGA3E2X7R1H103K080AA</a>		
			±20%	<a href="#">CGA3E2X7R1H103M080AA</a>		
15nF	1005	0.50±0.05	±10%	<a href="#">CGA2B3X7R1H153K050BB</a>	<a href="#">CGA2B3X7R1V153K050BB</a>	<a href="#">CGA2B2X7R1E153K050BA</a>
			±20%	<a href="#">CGA2B3X7R1H153M050BB</a>	<a href="#">CGA2B3X7R1V153M050BB</a>	<a href="#">CGA2B2X7R1E153M050BA</a>
	1608	0.80±0.10	±10%	<a href="#">CGA3E2X7R1H153K080AA</a>		
			±20%	<a href="#">CGA3E2X7R1H153M080AA</a>		
22nF	1005	0.50±0.05	±10%	<a href="#">CGA2B3X7R1H223K050BB</a>	<a href="#">CGA2B3X7R1V223K050BB</a>	<a href="#">CGA2B2X7R1E223K050BA</a>
			±20%	<a href="#">CGA2B3X7R1H223M050BB</a>	<a href="#">CGA2B3X7R1V223M050BB</a>	<a href="#">CGA2B2X7R1E223M050BA</a>
	1608	0.80±0.10	±10%	<a href="#">CGA3E2X7R1H223K080AA</a>		
			±20%	<a href="#">CGA3E2X7R1H223M080AA</a>		

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:		
				50V	35V	25V
33nF	1005	0.50±0.05	±10%	<a href="#">CGA2B3X7R1H333K050BB</a>	<a href="#">CGA2B3X7R1V333K050BB</a>	<a href="#">CGA2B1X7R1E333K050BC</a>
			±20%	<a href="#">CGA2B3X7R1H333M050BB</a>	<a href="#">CGA2B3X7R1V333M050BB</a>	<a href="#">CGA2B1X7R1E333M050BC</a>
	1608	0.80±0.10	±10%	<a href="#">CGA3E2X7R1H333K080AA</a>		
			±20%	<a href="#">CGA3E2X7R1H333M080AA</a>		
47nF	1005	0.50±0.05	±10%	<a href="#">CGA2B3X7R1H473K050BB</a>	<a href="#">CGA2B3X7R1V473K050BB</a>	<a href="#">CGA2B1X7R1E473K050BC</a>
			±20%	<a href="#">CGA2B3X7R1H473M050BB</a>	<a href="#">CGA2B3X7R1V473M050BB</a>	<a href="#">CGA2B1X7R1E473M050BC</a>
	1608	0.80±0.10	±10%	<a href="#">CGA3E2X7R1H473K080AA</a>		
			±20%	<a href="#">CGA3E2X7R1H473M080AA</a>		
68nF	1005	0.50±0.05	±10%	<a href="#">CGA2B3X7R1H683K050BB</a>	<a href="#">CGA2B3X7R1V683K050BB</a>	<a href="#">CGA2B3X7R1E683K050BB</a>
			±20%	<a href="#">CGA2B3X7R1H683M050BB</a>	<a href="#">CGA2B3X7R1V683M050BB</a>	<a href="#">CGA2B3X7R1E683M050BB</a>
	1608	0.80±0.10	±10%	<a href="#">CGA3E2X7R1H683K080AA</a>		
			±20%	<a href="#">CGA3E2X7R1H683M080AA</a>		
100nF	1005	0.50±0.05	±10%	<a href="#">CGA2B3X7R1H104K050BB</a>	<a href="#">CGA2B3X7R1V104K050BB</a>	<a href="#">CGA2B3X7R1E104K050BB</a>
			±20%	<a href="#">CGA2B3X7R1H104M050BB</a>	<a href="#">CGA2B3X7R1V104M050BB</a>	<a href="#">CGA2B3X7R1E104M050BB</a>
	1608	0.80±0.10	±10%	<a href="#">CGA3E2X7R1H104K080AA</a>		<a href="#">CGA3E2X7R1E104K080AA</a>
			±20%	<a href="#">CGA3E2X7R1H104M080AA</a>		<a href="#">CGA3E2X7R1E104M080AA</a>
150nF	1005	0.50±0.05	±10%	<a href="#">CGA4J2X7R1H104K125AA</a>		
			±20%		<a href="#">CGA2B1X7R1V154K050BC</a>	<a href="#">CGA2B3X7R1E154K050BB</a>
	1608	0.80±0.10	±10%	<a href="#">CGA3E3X7R1H154K080AB</a>	<a href="#">CGA3E3X7R1V154K080AB</a>	<a href="#">CGA3E2X7R1E154K080AA</a>
			±20%	<a href="#">CGA3E3X7R1H154M080AB</a>	<a href="#">CGA3E3X7R1V154M080AB</a>	<a href="#">CGA3E2X7R1E154M080AA</a>
220nF	1005	0.50±0.05	±10%		<a href="#">CGA2B1X7R1V224K050BC</a>	<a href="#">CGA2B3X7R1E224K050BB</a>
			±20%		<a href="#">CGA2B1X7R1V224M050BC</a>	<a href="#">CGA2B3X7R1E224M050BB</a>
	1608	0.80±0.10	±10%	<a href="#">CGA3E3X7R1H224K080AB</a>	<a href="#">CGA3E3X7R1V224K080AB</a>	<a href="#">CGA3E1X7R1E224K080AC</a>
			±20%	<a href="#">CGA3E3X7R1H224M080AB</a>	<a href="#">CGA3E3X7R1V224M080AB</a>	<a href="#">CGA3E1X7R1E224M080AC</a>
330nF	1005	0.50±0.05	±10%	<a href="#">CGA4J2X7R1H224K125AA</a>		<a href="#">CGA4J2X7R1E224K125AA</a>
			±20%	<a href="#">CGA4J2X7R1H224M125AA</a>		
	1608	0.80±0.10	±10%	<a href="#">CGA3E3X7R1H334K080AB</a>	<a href="#">CGA3E1X7R1V334K080AC</a>	<a href="#">CGA3E3X7R1E334K080AB</a>
			±20%	<a href="#">CGA3E3X7R1H334M080AB</a>	<a href="#">CGA3E1X7R1V334M080AC</a>	<a href="#">CGA3E3X7R1E334M080AB</a>
470nF	1005	0.50±0.05	±10%	<a href="#">CGA3E3X7R1H474K080AB</a>	<a href="#">CGA3E1X7R1V474K080AC</a>	<a href="#">CGA3E3X7R1E474K080AB</a>
			±20%	<a href="#">CGA3E3X7R1H474M080AB</a>	<a href="#">CGA3E1X7R1V474M080AC</a>	<a href="#">CGA3E3X7R1E474M080AB</a>
	1608	0.80±0.10	±10%	<a href="#">CGA4J3X7R1H474K125AB</a>	<a href="#">CGA4J3X7R1V474K125AB</a>	<a href="#">CGA4J2X7R1E474K125AA</a>
			±20%	<a href="#">CGA4J3X7R1H474M125AB</a>	<a href="#">CGA4J3X7R1V474M125AB</a>	<a href="#">CGA4J2X7R1E474M125AA</a>
680nF	1005	0.50±0.05	±10%	<a href="#">CGA5L2X7R1H474K160AA</a>		
			±20%	<a href="#">CGA5L2X7R1H474M160AA</a>		
	1608	0.80±0.10	±10%		<a href="#">CGA3E1X7R1V684K080AC</a>	<a href="#">CGA3E1X7R1E684K080AC</a>
			±20%		<a href="#">CGA3E1X7R1V684M080AC</a>	<a href="#">CGA3E1X7R1E684M080AC</a>
1µF	1005	0.50±0.05	±10%	<a href="#">CGA4J3X7R1H684K125AB</a>	<a href="#">CGA4J3X7R1V684K125AB</a>	<a href="#">CGA4J3X7R1E684K125AB</a>
			±20%	<a href="#">CGA4J3X7R1H684M125AB</a>	<a href="#">CGA4J3X7R1V684M125AB</a>	<a href="#">CGA4J3X7R1E684M125AB</a>
	1608	0.80±0.10	±10%	<a href="#">CGA5L2X7R1H684K160AA</a>		
			±20%	<a href="#">CGA5L2X7R1H684M160AA</a>		
1.5µF	1005	0.50±0.05	±10%	<a href="#">CGA3E3X7R1H105K080AB</a>	<a href="#">CGA3E1X7R1V105K080AC</a>	<a href="#">CGA3E1X7R1E105K080AC</a>
			±20%	<a href="#">CGA3E3X7R1H105M080AB</a>	<a href="#">CGA3E1X7R1V105M080AC</a>	<a href="#">CGA3E1X7R1E105M080AC</a>
	1608	0.80±0.10	±10%	<a href="#">CGA4J3X7R1H105K125AB</a>	<a href="#">CGA4J3X7R1V105K125AB</a>	<a href="#">CGA4J3X7R1E105K125AB</a>
			±20%	<a href="#">CGA4J3X7R1H105M125AB</a>	<a href="#">CGA4J3X7R1V105M125AB</a>	<a href="#">CGA4J3X7R1E105M125AB</a>
2.2µF	1005	0.50±0.05	±10%	<a href="#">CGA5L3X7R1H105K160AB</a>		<a href="#">CGA5L2X7R1E105K160AA</a>
			±20%	<a href="#">CGA5L3X7R1H105M160AB</a>		<a href="#">CGA5L2X7R1E105M160AA</a>
	1608	0.80±0.10	±10%	<a href="#">CGA6L2X7R1H105K160AA</a>		
			±20%	<a href="#">CGA6L2X7R1H105M160AA</a>		
3.3µF	1005	0.50±0.05	±10%	<a href="#">CGA4J3X7R1H155K125AB</a>	<a href="#">CGA4J1X7R1V155K125AC</a>	<a href="#">CGA4J3X7R1E155K125AB</a>
			±20%	<a href="#">CGA4J3X7R1H155M125AB</a>	<a href="#">CGA4J1X7R1V155M125AC</a>	<a href="#">CGA4J3X7R1E155M125AB</a>
	1608	0.80±0.10	±10%	<a href="#">CGA5L3X7R1H155K160AB</a>	<a href="#">CGA5L3X7R1V155K160AB</a>	<a href="#">CGA5L2X7R1E155K160AA</a>
			±20%	<a href="#">CGA5L3X7R1H155M160AB</a>	<a href="#">CGA5L3X7R1V155M160AB</a>	<a href="#">CGA5L2X7R1E155M160AA</a>
4.7µF	1005	0.50±0.05	±10%	<a href="#">CGA6M2X7R1H155K200AA</a>		
			±20%	<a href="#">CGA6M2X7R1H155M200AA</a>		
	1608	0.80±0.10	±10%	<a href="#">CGA8L2X7R1H155K160KA</a>		
			±20%	<a href="#">CGA4J3X7R1H225K125AB</a>	<a href="#">CGA4J1X7R1V225K125AC</a>	<a href="#">CGA4J3X7R1E225K125AB</a>
10µF	1005	0.50±0.05	±10%	<a href="#">CGA4J3X7R1H225M125AB</a>	<a href="#">CGA4J1X7R1V225M125AC</a>	<a href="#">CGA4J3X7R1E225M125AB</a>
			±20%	<a href="#">CGA4J3X7R1H225M125AB</a>	<a href="#">CGA4J1X7R1V225M125AC</a>	<a href="#">CGA4J3X7R1E225M125AB</a>
	1608	0.80±0.10	±10%	<a href="#">CGA5L3X7R1H225K160AB</a>	<a href="#">CGA5L3X7R1V225K160AB</a>	<a href="#">CGA5L2X7R1E225K160AA</a>
			±20%	<a href="#">CGA5L3X7R1H225M160AB</a>	<a href="#">CGA5L3X7R1V225M160AB</a>	<a href="#">CGA5L2X7R1E225M160AA</a>
22µF	1005	0.50±0.05	±10%	<a href="#">CGA6M3X7R1H225K200AB</a>		
			±20%	<a href="#">CGA6M3X7R1H225M200AB</a>		
	1608	0.80±0.10	±10%	<a href="#">CGA8L2X7R1H225K160KA</a>		
			±20%	<a href="#">CGA6M3X7R1H225M200AB</a>		

■ 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: X7R (-55 to +125 °C, ±15%)

Capacitance	Dimensions	Thickness (mm)	Capacitance tolerance	Catalog number			
				Rated voltage Edc: 75V	Rated voltage Edc: 50V	Rated voltage Edc: 35V	Rated voltage Edc: 25V
3.3µF	2012	1.25±0.20	±10%			<a href="#">CGA4J1X7R1V335K125AC</a>	<a href="#">CGA4J1X7R1E335K125AC</a>
			±20%			<a href="#">CGA4J1X7R1V335M125AC</a>	<a href="#">CGA4J1X7R1E335M125AC</a>
	3216	1.60+0.30,-0.10	±10%		<a href="#">CGA5L3X7R1H335K160AB</a>	<a href="#">CGA5L1X7R1V335K160AC</a>	<a href="#">CGA5L1X7R1E335K160AC</a>
			±20%		<a href="#">CGA5L3X7R1H335M160AB</a>	<a href="#">CGA5L1X7R1V335M160AC</a>	<a href="#">CGA5L1X7R1E335M160AC</a>
			±10%		<a href="#">CGA6P3X7R1H335K250AB</a>		
4532	2.00±0.20	±20%		<a href="#">CGA6P3X7R1H335M250AB</a>			
		±10%		<a href="#">CGA8M2X7R1H335K200KA</a>			
4.7µF	2012	1.25±0.20	±10%		<a href="#">CGA4J1X7R1H475K125AC</a>	<a href="#">CGA4J1X7R1V475K125AC</a>	<a href="#">CGA4J1X7R1E475K125AC</a>
			±20%		<a href="#">CGA4J1X7R1V475M125AC</a>	<a href="#">CGA4J1X7R1E475M125AC</a>	
	3216	1.60+0.30,-0.10	±10%		<a href="#">CGA5L3X7R1H475K160AB</a>	<a href="#">CGA5L1X7R1V475K160AC</a>	<a href="#">CGA5L1X7R1E475K160AC</a>
			±20%		<a href="#">CGA5L3X7R1H475M160AB</a>	<a href="#">CGA5L1X7R1V475M160AC</a>	<a href="#">CGA5L1X7R1E475M160AC</a>
			±10%		<a href="#">CGA6P3X7R1H475K250AB</a>		
	3225	2.50±0.30	±20%		<a href="#">CGA6P3X7R1H475M250AB</a>		
			±10%				<a href="#">CGA8L2X7R1E475K160KA</a>
4532	1.60±0.20	±20%		<a href="#">CGA8L2X7R1E475M160KA</a>			
		±10%		<a href="#">CGA8M3X7R1H475K200KB</a>			
6.8µF	5750	2.00±0.20	±10%		<a href="#">CGA9M2X7R1H475K200KA</a>		
			±20%				
	3216	1.60+0.30,-0.10	±10%		<a href="#">CGA5L1X7R1V685K160AC</a>	<a href="#">CGA5L1X7R1E685K160AC</a>	<a href="#">CGA5L1X7R1E685K160AC</a>
			±20%		<a href="#">CGA5L1X7R1V685M160AC</a>	<a href="#">CGA5L1X7R1E685M160AC</a>	<a href="#">CGA5L1X7R1E685M160AC</a>
			±10%		<a href="#">CGA6P3X7R1E685K250AB</a>		
3225	2.50±0.30	±20%		<a href="#">CGA6P3X7R1E685M250AB</a>			
		±10%		<a href="#">CGA8P3X7R1H685K250KB</a>			
10µF	4532	2.50±0.30	±10%		<a href="#">CGA9P2X7R1H685K250KA</a>		
			±20%		<a href="#">CGA9P2X7R1E685K250KA</a>		
	3216	1.60+0.30,-0.10	±10%		<a href="#">CGA5L1X7R1H106K160AC</a>	<a href="#">CGA5L1X7R1V106K160AC</a>	<a href="#">CGA5L1X7R1E106K160AC</a>
			±20%		<a href="#">CGA5L1X7R1V106M160AC</a>	<a href="#">CGA5L1X7R1E106M160AC</a>	<a href="#">CGA5L1X7R1E106M160AC</a>
			±10%	<a href="#">CGA6P1X7R1N106K250AC</a>		<a href="#">CGA6P1X7R1E106K250AC</a>	
3225	2.50±0.30	±20%	<a href="#">CGA6P1X7R1N106M250AC</a>		<a href="#">CGA6P1X7R1E106M250AC</a>		
		±10%		<a href="#">CGA8P2X7R1E106K250KA</a>			
15µF	4532	2.80±0.30	±20%		<a href="#">CGA8P2X7R1E106K250KA</a>		
			±10%		<a href="#">CGA9M2X7R1E106M200KA</a>		
	5750	2.30±0.20	±20%		<a href="#">CGA9M2X7R1E106M200KA</a>		
			±10%		<a href="#">CGA9N3X7R1H106K230KB</a>		
22µF	3225	2.50±0.30	±20%		<a href="#">CGA6M3X7R1E156M200AB</a>		
			±10%		<a href="#">CGA8Q3X7R1E156M280KB</a>		
	4532	2.50±0.30	±20%		<a href="#">CGA9N2X7R1E156M230KA</a>		
±10%				<a href="#">CGA6P3X7R1E226M250AB</a>			
47µF	5750	2.30±0.20	±20%		<a href="#">CGA8P1X7R1E226M250KC</a>		
			±10%	<a href="#">CGA9P3X7R1H226M250KB</a>	<a href="#">CGA9P2X7R1E226M250KA</a>	<a href="#">CGA9P2X7R1E226M250KA</a>	
					<a href="#">CGA9N1X7R1V476M230KC</a>	<a href="#">CGA9N3X7R1E476M230KC</a>	

■ 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: X7R (-55 to +125 °C, ±15%)

Capacitance	Dimensions	Thickness (mm)	Capacitance tolerance	Catalog number		
				Rated voltage Edc: 16V	Rated voltage Edc: 10V	Rated voltage Edc: 6.3V
100pF	0603	0.30±0.03	±10%	<a href="#">CGA1A2X7R1C101K030BA</a>		
			±20%	<a href="#">CGA1A2X7R1C101M030BA</a>		
150pF	0603	0.30±0.03	±10%	<a href="#">CGA1A2X7R1C151K030BA</a>		
			±20%	<a href="#">CGA1A2X7R1C151M030BA</a>		
220pF	0603	0.30±0.03	±10%	<a href="#">CGA1A2X7R1C221K030BA</a>		
			±20%	<a href="#">CGA1A2X7R1C221M030BA</a>		
330pF	0603	0.30±0.03	±10%	<a href="#">CGA1A2X7R1C331K030BA</a>		
			±20%	<a href="#">CGA1A2X7R1C331M030BA</a>		
470pF	0603	0.30±0.03	±10%	<a href="#">CGA1A2X7R1C471K030BA</a>		
			±20%	<a href="#">CGA1A2X7R1C471M030BA</a>		
680pF	0603	0.30±0.03	±10%	<a href="#">CGA1A2X7R1C681K030BA</a>		
			±20%	<a href="#">CGA1A2X7R1C681M030BA</a>		
1nF	0603	0.30±0.03	±10%	<a href="#">CGA1A2X7R1C102K030BA</a>		
			±20%	<a href="#">CGA1A2X7R1C102M030BA</a>		
1.5nF	0603	0.30±0.03	±10%	<a href="#">CGA1A2X7R1C152K030BA</a>		
			±20%	<a href="#">CGA1A2X7R1C152M030BA</a>		
2.2nF	0603	0.30±0.03	±10%	<a href="#">CGA1A2X7R1C222K030BA</a>		
			±20%	<a href="#">CGA1A2X7R1C222M030BA</a>		
3.3nF	0603	0.30±0.03	±10%	<a href="#">CGA1A2X7R1C332K030BA</a>		
			±20%	<a href="#">CGA1A2X7R1C332M030BA</a>		
4.7nF	0603	0.30±0.03	±10%	<a href="#">CGA1A2X7R1C472K030BA</a>		
			±20%	<a href="#">CGA1A2X7R1C472M030BA</a>		
6.8nF	0603	0.30±0.03	±10%	<a href="#">CGA1A2X7R1C682K030BA</a>		
			±20%	<a href="#">CGA1A2X7R1C682M030BA</a>		
10nF	0603	0.30±0.03	±10%		<a href="#">CGA1A2X7R1A103K030BA</a>	<a href="#">CGA1A2X7R0J103K030BA</a>
			±20%		<a href="#">CGA1A2X7R1A103M030BA</a>	<a href="#">CGA1A2X7R0J103M030BA</a>
33nF	1005	0.50±0.05	±10%	<a href="#">CGA2B2X7R1C333K050BA</a>		
			±20%	<a href="#">CGA2B2X7R1C333M050BA</a>		
47nF	1005	0.50±0.05	±10%	<a href="#">CGA2B2X7R1C473K050BA</a>		
			±20%	<a href="#">CGA2B2X7R1C473M050BA</a>		
68nF	1005	0.50±0.05	±10%	<a href="#">CGA2B1X7R1C683K050BC</a>		
			±20%	<a href="#">CGA2B1X7R1C683M050BC</a>		
100nF	1005	0.50±0.05	±10%	<a href="#">CGA2B1X7R1C104K050BC</a>		
			±20%	<a href="#">CGA2B1X7R1C104M050BC</a>		
150nF	1005	0.50±0.05	±10%	<a href="#">CGA2B2X7R1C154K050BA</a>	<a href="#">CGA2B1X7R1A154K050BC</a>	<a href="#">CGA2B3X7R0J154K050BB</a>
			±20%	<a href="#">CGA2B2X7R1C154M050BA</a>	<a href="#">CGA2B1X7R1A154M050BC</a>	<a href="#">CGA2B3X7R0J154M050BB</a>
220nF	1005	0.50±0.05	±10%	<a href="#">CGA2B2X7R1C224K050BA</a>	<a href="#">CGA2B1X7R1A224K050BC</a>	<a href="#">CGA2B3X7R0J224K050BB</a>
			±20%	<a href="#">CGA2B2X7R1C224M050BA</a>	<a href="#">CGA2B1X7R1A224M050BC</a>	<a href="#">CGA2B3X7R0J224M050BB</a>
330nF	1608	0.80±0.10	±10%	<a href="#">CGA3E2X7R1C224K080AA</a>		
			±20%	<a href="#">CGA3E2X7R1C224M080AA</a>		
470nF	1608	0.80±0.10	±10%	<a href="#">CGA3E1X7R1C334K080AC</a>		
			±20%	<a href="#">CGA3E1X7R1C334M080AC</a>		
680nF	2012	1.25±0.20	±10%	<a href="#">CGA4J2X7R1C684K125AA</a>		
			±20%	<a href="#">CGA4J2X7R1C684M125AA</a>		
1µF	1608	0.80±0.10	±10%	<a href="#">CGA3E1X7R1C105K080AC</a>		
			±20%	<a href="#">CGA3E1X7R1C105M080AC</a>		
1.5µF	2012	1.25±0.20	±10%	<a href="#">CGA4J3X7R1C105K125AA</a>		
			±20%	<a href="#">CGA4J3X7R1C105M125AA</a>		
2.2µF	1608	0.80±0.10	±10%		<a href="#">CGA3E1X7R0J155K080AC</a>	
			±20%		<a href="#">CGA3E1X7R0J155M080AC</a>	
3.3µF	2012	1.25±0.20	±10%	<a href="#">CGA4J3X7R1C155K125AB</a>		
			±20%	<a href="#">CGA4J3X7R1C155M125AB</a>		
4.7µF	2012	1.25±0.20	±10%	<a href="#">CGA4J3X7R1C225K125AB</a>		
			±20%	<a href="#">CGA4J3X7R1C225M125AB</a>		
3.3µF	2012	1.25±0.20	±10%	<a href="#">CGA4J3X7R1C335K125AB</a>	<a href="#">CGA4J3X7R1A335K125AB</a>	
			±20%	<a href="#">CGA4J3X7R1C335M125AB</a>		
4.7µF	2012	1.25±0.20	±10%	<a href="#">CGA4J3X7R1C475K125AB</a>	<a href="#">CGA4J3X7R1A475K125AB</a>	
			±20%	<a href="#">CGA4J3X7R1C475M125AB</a>		
4.7µF	3216	1.60+0.30,-0.10	±10%	<a href="#">CGA5L3X7R1C475K160AB</a>		
			±20%	<a href="#">CGA5L3X7R1C475M160AB</a>		

■ Gray items: These products are not recommended for new designs.  
Click the part numbers for details.

⚠ 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



## Capacitance range table

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

Capacitance	Dimensions	Thickness (mm)	Capacitance tolerance	Catalog number	
				Rated voltage Edc: 16V	Rated voltage Edc: 6.3V
6.8µF	2012	1.25±0.20	±10%	<a href="#">CGA4J1X7R0J685K125AC</a>	<a href="#">CGA4J1X7R0J685M125AC</a>
			±20%	<a href="#">CGA4J1X7R0J685M125AC</a>	<a href="#">CGA4J1X7R0J685M125AC</a>
	3216	1.60+0.30,-0.10	±10%	<a href="#">CGA5L1X7R1C685K160AC</a>	<a href="#">CGA5L1X7R1C685M160AC</a>
			±20%	<a href="#">CGA5L1X7R1C685M160AC</a>	<a href="#">CGA5L1X7R1C685M160AC</a>
10µF	2012	1.25±0.20	±10%	<a href="#">CGA4J1X7R0J106K125AC</a>	<a href="#">CGA4J1X7R0J106M125AC</a>
			±20%	<a href="#">CGA4J1X7R0J106M125AC</a>	<a href="#">CGA4J1X7R0J106M125AC</a>
	3216	1.60+0.30,-0.10	±10%	<a href="#">CGA5L1X7R1C106K160AC</a>	<a href="#">CGA5L1X7R1C106M160AC</a>
			±20%	<a href="#">CGA5L1X7R1C106M160AC</a>	<a href="#">CGA5L1X7R1C106M160AC</a>
3225	2.00±0.20	±10%	<a href="#">CGA6M3X7R1C106K200AB</a>	<a href="#">CGA6M3X7R1C106M200AB</a>	
		±20%	<a href="#">CGA6M3X7R1C106M200AB</a>	<a href="#">CGA6M3X7R1C106M200AB</a>	
15µF	3225	2.50±0.30	±20%	<a href="#">CGA6P3X7R1C156M250AB</a>	<a href="#">CGA6P3X7R1C156M250AB</a>
22µF	3216	1.60+0.30,-0.10	±20%	<a href="#">CGA5L1X7R0J226M160AC</a>	<a href="#">CGA5L1X7R0J226M160AC</a>
	3225	2.50±0.30	±20%	<a href="#">CGA6P1X7R1C226M250AC</a>	<a href="#">CGA6P1X7R1C226M250AC</a>
	4532	2.30±0.20	±20%	<a href="#">CGA8N3X7R1C226M230KB</a>	<a href="#">CGA8N3X7R1C226M230KB</a>
33µF	4532	2.50±0.30	±20%	<a href="#">CGA8P1X7R1C336M250KC</a>	<a href="#">CGA8P1X7R1C336M250KC</a>
47µF	5750	2.30±0.20	±20%	<a href="#">CGA9N3X7R1C476M230KB</a>	<a href="#">CGA9N3X7R1C476M230KB</a>

■ 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: 50V	Rated voltage Edc: 25V	Rated voltage Edc: 16V
330nF	1005	0.50±0.05	±10%			<a href="#">CGA2B1X7S1C334K050BC</a>
			±20%			<a href="#">CGA2B1X7S1C334M050BC</a>
470nF	1005	0.50±0.05	±10%			<a href="#">CGA2B1X7S1C474K050BC</a>
			±20%			<a href="#">CGA2B1X7S1C474M050BC</a>
1.5µF	1608	0.80±0.10	±10%			<a href="#">CGA3E1X7S1C155K080AC</a>
			±20%			<a href="#">CGA3E1X7S1C155M080AC</a>
2.2µF	1608	0.80±0.10	±10%			<a href="#">CGA3E1X7S1C225K080AC</a>
			±20%			<a href="#">CGA3E1X7S1C225M080AC</a>
4.7µF	3225	2.30±0.20	±10%	<a href="#">CGA6N3X7S1H475K230AB</a>		
			±20%			<a href="#">CGA4J1X7S1C685K125AC</a>
6.8µF	2012	1.25±0.20	±10%			<a href="#">CGA4J1X7S1C685M125AC</a>
			±20%			<a href="#">CGA4J1X7S1C685M125AC</a>
	3225	2.50±0.30	±10%	<a href="#">CGA6P3X7S1H685K250AB</a>		
			±20%	<a href="#">CGA6P3X7S1H685M250AB</a>		
10µF	2012	1.25±0.20	±10%		<a href="#">CGA4J1X7S1E106K125AC</a>	<a href="#">CGA4J1X7S1C106K125AC</a>
			±20%			<a href="#">CGA4J1X7S1C106M125AC</a>
	3225	2.50±0.30	±10%	<a href="#">CGA6P3X7S1H106K250AB</a>		
			±20%	<a href="#">CGA6P3X7S1H106M250AB</a>		

Capacitance	Dimensions	Thickness (mm)	Capacitance tolerance	Catalog number		
				Rated voltage Edc: 10V	Rated voltage Edc: 6.3V	Rated voltage Edc: 4V
330nF	1005	0.50±0.05	±10%	<a href="#">CGA2B3X7S1A334K050BB</a>		
			±20%	<a href="#">CGA2B3X7S1A334M050BB</a>		
470nF	1005	0.50±0.05	±10%	<a href="#">CGA2B3X7S1A474K050BB</a>		
			±20%	<a href="#">CGA2B3X7S1A474M050BB</a>		
1.5µF	1608	0.80±0.10	±10%	<a href="#">CGA3E3X7S1A155K080AB</a>		
			±20%	<a href="#">CGA3E3X7S1A155M080AB</a>		
2.2µF	1608	0.80±0.10	±10%	<a href="#">CGA3E3X7S1A225K080AB</a>		
			±20%	<a href="#">CGA3E3X7S1A225M080AB</a>		
6.8µF	2012	1.25±0.20	±10%	<a href="#">CGA4J3X7S1A685K125AB</a>		
			±20%	<a href="#">CGA4J3X7S1A685M125AB</a>		
10µF	1608	0.80+0.30,-0.10	±10%			<a href="#">CGA3E1X7S0G106M080AC</a>
			±20%			
	2012	1.25±0.20	±10%	<a href="#">CGA4J3X7S1A106K125AB</a>		
			±20%	<a href="#">CGA4J3X7S1A106M125AB</a>		
15µF	3216	1.60+0.30,-0.10	±20%	<a href="#">CGA5L1X7S1A156M160AC</a>		
22µF	3216	1.60+0.30,-0.10	±20%	<a href="#">CGA5L1X7S1A226M160AC</a>		
33µF	3225	2.00±0.20	±20%	<a href="#">CGA6M1X7S1A336M200AC</a>		
		2.50±0.30	±20%		<a href="#">CGA6P1X7S0J336M250AC</a>	
47µF	3225	2.50±0.30	±20%	<a href="#">CGA6P1X7S1A476M250AC</a>	<a href="#">CGA6P1X7S0J476M250AC</a>	

■ 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: X7T (-55 to +125 °C, +22,-33%)

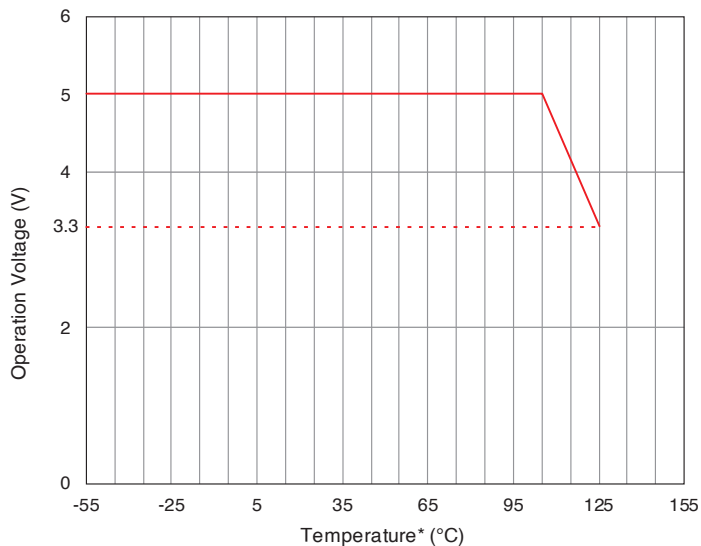
Capacitance	Dimensions	Thickness (mm)	Capacitance tolerance	Catalog number			
				Rated voltage Edc: 10V	Rated voltage Edc: 6.3V	Rated voltage Edc: 4V	Rated voltage Edc: 2.5V
100nF	0603	0.30+0.10,-0.03	±20%			<a href="#">CGA1A1X7T0G104M030BC</a>	
1µF	1005	0.50+0.10,-0.05	±20%			<a href="#">CGA2B1X7T0G105M050BC</a>	
4.7µF	1608	0.80+0.30,-0.10	±10%	<a href="#">CGA3E1X7T1A475K080AC</a>	<a href="#">CGA3E3X7T0J475K080AB</a>		
10µF	1608	0.80+0.30,-0.10	±20%	<a href="#">CGA3EDX7T1A106M080AU</a>	<a href="#">CGA3E1X7T0J106M080AC</a>	<a href="#">CGA3E3X7T0G106M080AB</a>	
22µF	2012	1.25+0.30,-0.15	±20%		<a href="#">CGA4J1X7T0J226M125AC</a>		
47µF	3216	1.60+0.40,-0.10	±20%			<a href="#">CGA5L1X7T0G476M160AC</a>	
100µF	3225	2.50+0.40,-0.30	±20%			<a href="#">CGA6P1X7T0G107M250AC</a>	<a href="#">CGA6P3X7T0E107M250AB</a>

Click the part numbers for details.

CGA3EDX7T1A106M080AU is a derating guarantee product.

When the product temperature exceeds 125°C, please use the product within the derated voltage/temperature condition in the figure below.

### Rated voltage derating



\* Including self-heating.

## OUR CERTIFICATE

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