

# C4532X7R2E224K230KA Datasheet



DiGi Electronics Part Number	C4532X7R2E224K230KA-DG
Manufacturer	<a href="#">TDK Corporation</a>
Manufacturer Product Number	C4532X7R2E224K230KA
Description	CAP CER 0.22UF 250V X7R 1812
Detailed Description	0.22 $\mu$ F $\pm$ 10% 250V Ceramic Capacitor X7R 1812 (4532 Metric)

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## Purchase and inquiry

Manufacturer Product Number:

C4532X7R2E224K230KA

Series:

C

Capacitance:

0.22  $\mu$ F

Voltage - Rated:

250V

Operating Temperature:

-55°C ~ 125°C

Ratings:

-

Failure Rate:

-

Package / Case:

1812 (4532 Metric)

Height - Seated (Max):

-

Lead Spacing:

-

Manufacturer:

TDK Corporation

Product Status:

Active

Tolerance:

$\pm$ 10%

Temperature Coefficient:

X7R

Features:

-

Applications:

General Purpose

Mounting Type:

Surface Mount, MLCC

Size / Dimension:

0.177" L x 0.126" W (4.50mm x 3.20mm)

Thickness (Max):

0.098" (2.50mm)

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



# MULTILAYER CERAMIC CHIP CAPACITORS

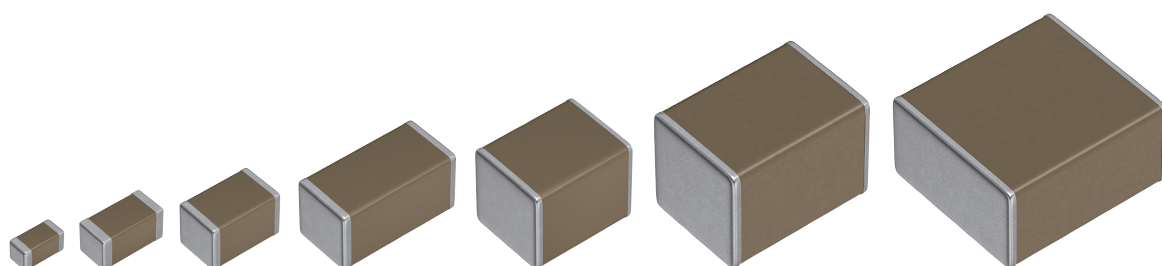
Commercial grade, mid voltage (100 to 630V)

## C series

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<b>C1005</b>	<b>[0402 inch]</b>
<b>C1608</b>	<b>[0603 inch]</b>
<b>C2012</b>	<b>[0805 inch]</b>
<b>C3216</b>	<b>[1206 inch]</b>
<b>C3225</b>	<b>[1210 inch]</b>
<b>C4532</b>	<b>[1812 inch]</b>
<b>C5750</b>	<b>[2220 inch]</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

- The products listed on this catalog are intended for use in general electronic equipment (AV equipment, telecommunications equipment, home appliances, amusement equipment, computer equipment, personal equipment, office equipment, measurement equipment, industrial robots) under a normal operation and use condition.

The products are not designed or warranted to meet the requirements of the applications listed below, whose performance and/or quality require a more stringent level of safety or reliability, or whose failure, malfunction or trouble could cause serious damage to society, person or property.

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 the each catalog, please contact us.

- |  |  |
|--|--|
| (1) Aerospace/aviation equipment   | (7) Transportation control equipment   |
| (2) Transportation equipment (cars, 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



# C series

## Mid voltage (100 to 630V)



Type: C1005 [0402 inch]、C1608 [0603 inch]、C2012 [0805 inch]、  
C3216 [1206 inch]、C3225 [1210 inch]、C4532 [1812 inch]、  
C5750 [2220 inch]

### SERIES OVERVIEW

Commercial grade medium voltage C 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 22 $\mu$ F.

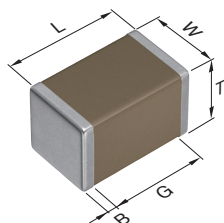
### FEATURES

- Voltage rating of 100V, 250V, 350V, 450V and 630V
- COG type having excellent stable temperature and DC-bias characteristics is also available

### APPLICATION

- Decoupling, smoothing, snubber and resonant circuits of high voltage circuits
- Wireless charging units, DC-DC converter, Inverter

### SHAPE & DIMENSIONS



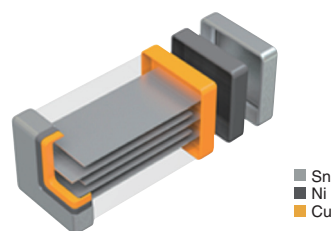
L	Body length
W	Body width
T	Body height
B	Terminal width
G	Terminal spacing

Dimensions in mm

Type	L	W	T	B	G
C1005	1.00±0.05	0.50±0.05	0.50±0.05	0.10 min.	0.30 min.
C1608	1.60±0.10	0.80±0.10	0.80±0.10	0.20 min.	0.30 min.
C2012	2.00±0.20	1.25±0.20	1.25±0.20	0.20 min.	0.50 min.
C3216	3.20±0.20	1.60±0.20	1.60±0.20	0.20 min.	1.00 min.
C3225	3.20±0.40	2.50±0.30	2.50±0.30	0.20 min.	—
C4532	4.50±0.40	3.20±0.40	3.20±0.30	0.20 min.	—
C5750	5.70±0.40	5.00±0.40	2.80±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>C</b>	<b>2012</b>	<b>X7R</b>	<b>2A</b>	<b>225</b>	<b>K</b>	<b>125</b>	<b>A</b>	<b>C</b>
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)

**(1)Series****(2)Dimensions L x W (mm)**

Code	EIA	Length	Width	Terminal width
1005	CC0402	1.00	0.50	0.10
1608	CC0603	1.60	0.80	0.20
2012	CC0805	2.00	1.25	0.20
3216	CC1206	3.20	1.60	0.20
3225	CC1210	3.20	2.50	0.20
4532	CC1812	4.50	3.20	0.20
5750	CC2220	5.70	5.00	0.20

**(3)Temperature characteristics**

Temperature characteristics	Temperature coefficient or capacitance change	Temperature range
C0G	0±30 ppm/ °C	-55 to +125 °C
X5R	±15%	-55 to +85 °C
X6S	±22%	-55 to +105 °C
X7R	±15%	-55 to +125 °C
X7S	±22%	-55 to +125 °C
X7T	+22,-33%	-55 to +125 °C

**(4)Rated voltage (DC)**

Code	Voltage (DC)
2A	100V
2E	250V
2V	350V
2W	450V
2J	630V

**(5)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

**(6)Capacitance tolerance**

Code	Tolerance
C	±0.25pF
D	±0.50pF
F	±1%
G	±2%
J	±5%
K	±10%
M	±20%

**(7)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

**(8)Packaging style**

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

**(9)Special reserved code**

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


## MULTILAYER CERAMIC CHIP CAPACITORS




## Capacitance range chart

## C1005 [0402 inch]

Capacitance		COG	X7S
(pF)	Code	2A (100V)	2A (100V)
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		

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 13 and after.


MULTILAYER CERAMIC CHIP CAPACITORS 


Capacitance range chart


C1608 [0603 inch]

Capacitance		COG		X5R	X7R	X7S
(pF)	Code	2E (250V)	2A (100V)	2A (100V)	2A (100V)	2A (100V)
1	010					
2	020					
3	030					
4	040					
5	050					
6	060					
7	070					
8	080					
9	090					
10	100					
15	150					
22	220					
33	330					
47	470					
68	680					
100	101					
150	151					
220	221					
330	331					
470	471					
680	681					
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					
1,000,000	105					

Standard thickness  0.80 mm

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

 Click the charts for details.

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MULTILAYER CERAMIC CHIP CAPACITORS 


Capacitance range chart


C2012 [0805 inch]


Capacitance		COG			X5R		X7R	
(pF)	Code	2W (450V)	2E (250V)	2A (100V)	2E (250V)	2A (100V)	2E (250V)	2A (100V)
100	101	█						
150	151	█						
220	221	█						
330	331	█						
470	471	█						
680	681	█						
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		█	█	█	█	█	█
2,200,000	225					█		█
4,700,000	475					█		█

Capacitance		X7S	X7T		
(pF)	Code	2A (100V)	2W (450V)	2V (350V)	2E (250V)
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	█			

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 13 and after.

MULTILAYER CERAMIC CHIP CAPACITORS 

Capacitance range chart


C3216 [1206 inch]

Capacitance		COG			
(pF)	Code	2J (630V)	2W (450V)	2E (250V)	2A (100V)
100	101				
150	151				
220	221				
330	331				
470	471				
680	681				
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  0.60 mm  0.85 mm  1.15 mm  1.60 mm

■ Click the charts for details.

■ For details such as the catalog numbers, please refer to the capacitance range table on page 13 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


C3216 [1206 inch]


Capacitance		X5R			X6S	X7R			X7S	X7T			
(pF)	Code	2J (630V)	2E (250V)	2A (100V)	2A (100V)	2J (630V)	2E (250V)	2A (100V)	2A (100V)	2J (630V)	2W (450V)	2V (350V)	2E (250V)
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			█									█
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  0.85 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 13 and after.

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MULTILAYER CERAMIC CHIP CAPACITORS 


Capacitance range chart


C3225 [1210 inch]


Capacitance		COG			
(pF)	Code	2J (630V)	2W (450V)	2E (250V)	2A (100V)
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				

Capacitance		X5R			X7R			X7S	X7T		
(pF)	Code	2J (630V)	2E (250V)	2A (100V)	2J (630V)	2E (250V)	2A (100V)	2A (100V)	2J (630V)	2W (450V)	2E (250V)
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										
10,000,000	106										

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 13 and after.

## MULTILAYER CERAMIC CHIP CAPACITORS



## Capacitance range chart

## C4532 [1812 inch]

Capacitance		COG			
(pF)	Code	2J (630V)	2W (450V)	2E (250V)	2A (100V)
8,200	822				
10,000	103				
15,000	153				
22,000	223				
33,000	333				
47,000	473				
68,000	683				
100,000	104				

Capacitance		X5R		X7R			X7S	X7T		
(pF)	Code	2J (630V)	2E (250V)	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									
300,000	304									
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 13 and after.

## MULTILAYER CERAMIC CHIP CAPACITORS



## Capacitance range chart

## C5750 [2220 inch]

Capacitance		COG			
(pF)	Code	2J (630V)	2W (450V)	2E (250V)	2A (100V)
68,000	683				
100,000	104				
150,000	154				

Capacitance		X5R			X6S	X7R			X7S	X7T		
(pF)	Code	2J (630V)	2E (250V)	2A (100V)	2W (450V)	2J (630V)	2E (250V)	2A (100V)	2A (100V)	2J (630V)	2W (450V)	2E (250V)
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											
22,000,000	226											

Standard thickness 1.6 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 13 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				<a href="#">C1608C0G2A010C080AA</a>
2pF	1608	0.80±0.10	±0.25pF				<a href="#">C1608C0G2A020C080AA</a>
3pF	1608	0.80±0.10	±0.25pF				<a href="#">C1608C0G2A030C080AA</a>
4pF	1608	0.80±0.10	±0.25pF				<a href="#">C1608C0G2A040C080AA</a>
5pF	1608	0.80±0.10	±0.25pF				<a href="#">C1608C0G2A050C080AA</a>
6pF	1608	0.80±0.10	±0.50pF				<a href="#">C1608C0G2A060D080AA</a>
7pF	1608	0.80±0.10	±0.50pF				<a href="#">C1608C0G2A070D080AA</a>
8pF	1608	0.80±0.10	±0.50pF				<a href="#">C1608C0G2A080D080AA</a>
9pF	1608	0.80±0.10	±0.50pF				<a href="#">C1608C0G2A090D080AA</a>
10pF	1608	0.80±0.10	±0.50pF				<a href="#">C1608C0G2A100D080AA</a>
15pF	1608	0.80±0.10	±5%				<a href="#">C1608C0G2A150J080AA</a>
22pF	1608	0.80±0.10	±5%				<a href="#">C1608C0G2A220J080AA</a>
33pF	1608	0.80±0.10	±5%				<a href="#">C1608C0G2A330J080AA</a>
47pF	1608	0.80±0.10	±5%				<a href="#">C1608C0G2A470J080AA</a>
68pF	1608	0.80±0.10	±5%				<a href="#">C1608C0G2A680J080AA</a>
100pF	1005	0.50±0.05	±10%				<a href="#">C1005C0G2A101K050BA</a>
			±5%				<a href="#">C1005C0G2A101J050BA</a>
	1608	0.80±0.10	±10%				<a href="#">C1608C0G2E101K080AA</a>
			±5%				<a href="#">C1608C0G2E101J080AA</a>
			±2%				<a href="#">C1608C0G2A101G080AA</a>
			±1%				<a href="#">C1608C0G2A101F080AA</a>
	2012	0.60±0.15	±10%		<a href="#">C2012C0G2W101K060AA</a>		
			±5%		<a href="#">C2012C0G2W101J060AA</a>		
	3216	0.60±0.15	±10%	<a href="#">C3216C0G2J101K060AA</a>			
			±5%	<a href="#">C3216C0G2J101J060AA</a>			
150pF	1005	0.50±0.05	±10%				<a href="#">C1005C0G2A151K050BA</a>
			±5%				<a href="#">C1005C0G2A151J050BA</a>
	1608	0.80±0.10	±10%				<a href="#">C1608C0G2E151K080AA</a>
			±5%				<a href="#">C1608C0G2E151J080AA</a>
	2012	0.60±0.15	±10%		<a href="#">C2012C0G2W151K060AA</a>		
			±5%		<a href="#">C2012C0G2W151J060AA</a>		
3216	0.60±0.15	±10%	<a href="#">C3216C0G2J151K060AA</a>				
		±5%	<a href="#">C3216C0G2J151J060AA</a>				
220pF	1005	0.50±0.05	±10%				<a href="#">C1005C0G2A221K050BA</a>
			±5%				<a href="#">C1005C0G2A221J050BA</a>
	1608	0.80±0.10	±10%				<a href="#">C1608C0G2E221K080AA</a>
			±5%				<a href="#">C1608C0G2E221J080AA</a>
	2012	0.60±0.15	±10%		<a href="#">C2012C0G2W221K060AA</a>		
			±5%		<a href="#">C2012C0G2W221J060AA</a>		
3216	0.60±0.15	±10%	<a href="#">C3216C0G2J221K060AA</a>				
		±5%	<a href="#">C3216C0G2J221J060AA</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: 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
330pF	1005	0.50±0.05	±10%				<a href="#">C1005C0G2A331K050BA</a>
			±5%				<a href="#">C1005C0G2A331J050BA</a>
	1608	0.80±0.10	±10%			<a href="#">C1608C0G2E331K080AA</a>	<a href="#">C1608C0G2A331K080AA</a>
			±5%		<a href="#">C1608C0G2E331J080AA</a>	<a href="#">C1608C0G2A331J080AA</a>	
	2012	0.60±0.15	±10%		<a href="#">C2012C0G2W331K060AA</a>		
±5%				<a href="#">C2012C0G2W331J060AA</a>			
3216	0.60±0.15	±10%	<a href="#">C3216C0G2J331K060AA</a>				
			±5%	<a href="#">C3216C0G2J331J060AA</a>			
470pF	1005	0.50±0.05	±10%				<a href="#">C1005C0G2A471K050BA</a>
			±5%				<a href="#">C1005C0G2A471J050BA</a>
	1608	0.80±0.10	±10%			<a href="#">C1608C0G2E471K080AA</a>	<a href="#">C1608C0G2A471K080AA</a>
			±5%		<a href="#">C1608C0G2E471J080AA</a>	<a href="#">C1608C0G2A471J080AA</a>	
	2012	0.60±0.15	±10%		<a href="#">C2012C0G2W471K060AA</a>		
±5%				<a href="#">C2012C0G2W471J060AA</a>			
3216	0.85±0.15	±10%	<a href="#">C3216C0G2J471K085AA</a>				
			±5%	<a href="#">C3216C0G2J471J085AA</a>			
680pF	1005	0.50±0.05	±10%				<a href="#">C1005C0G2A681K050BC</a>
			±5%				<a href="#">C1005C0G2A681J050BC</a>
	1608	0.80±0.10	±10%			<a href="#">C1608C0G2E681K080AA</a>	<a href="#">C1608C0G2A681K080AA</a>
			±5%		<a href="#">C1608C0G2E681J080AA</a>	<a href="#">C1608C0G2A681J080AA</a>	
	2012	0.60±0.15	±10%		<a href="#">C2012C0G2W681K060AA</a>		
±5%				<a href="#">C2012C0G2W681J060AA</a>			
3216	0.85±0.15	±10%	<a href="#">C3216C0G2J681K085AA</a>				
			±5%	<a href="#">C3216C0G2J681J085AA</a>			
1nF	1005	0.50±0.05	±10%				<a href="#">C1005C0G2A102K050BC</a>
			±5%				<a href="#">C1005C0G2A102J050BC</a>
	1608	0.80±0.10	±10%			<a href="#">C1608C0G2E102K080AA</a>	<a href="#">C1608C0G2A102K080AA</a>
			±5%		<a href="#">C1608C0G2E102J080AA</a>	<a href="#">C1608C0G2A102J080AA</a>	
	2012	0.60±0.15	±10%		<a href="#">C2012C0G2W102K060AA</a>		
			±5%		<a href="#">C2012C0G2W102J060AA</a>		<a href="#">C2012C0G2A102J060AA</a>
	3216	0.85±0.15	±10%			<a href="#">C2012C0G2E102K085AA</a>	
			±5%		<a href="#">C2012C0G2E102J085AA</a>		
	3216	0.85±0.15	±10%	<a href="#">C3216C0G2J102K085AA</a>			
±5%			<a href="#">C3216C0G2J102J085AA</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: 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
1.2nF	1608	0.80±0.10	±10%			<a href="#">C1608C0G2E122K080AA</a>	<a href="#">C1608C0G2A122K080AA</a>
			±5%			<a href="#">C1608C0G2E122J080AA</a>	<a href="#">C1608C0G2A122J080AA</a>
	2012	0.60±0.15	±10%		<a href="#">C2012C0G2W122K060AA</a>		
			±5%		<a href="#">C2012C0G2W122J060AA</a>		<a href="#">C2012C0G2A122J060AA</a>
	3216	0.85±0.15	±10%		<a href="#">C3216C0G2J122K085AA</a>		
			±5%		<a href="#">C3216C0G2J122J085AA</a>		
1.5nF	1608	0.80±0.10	±10%			<a href="#">C1608C0G2E152K080AA</a>	<a href="#">C1608C0G2A152K080AA</a>
			±5%			<a href="#">C1608C0G2E152J080AA</a>	<a href="#">C1608C0G2A152J080AA</a>
	2012	0.60±0.15	±10%				<a href="#">C2012C0G2A152K060AA</a>
			±5%		<a href="#">C2012C0G2W152K085AA</a>	<a href="#">C2012C0G2E152K085AA</a>	<a href="#">C2012C0G2A152J060AA</a>
	3216	1.15±0.15	±10%		<a href="#">C3216C0G2J152K115AA</a>		
			±5%		<a href="#">C3216C0G2J152J115AA</a>		
1.8nF	1608	0.80±0.10	±10%			<a href="#">C1608C0G2E182K080AA</a>	<a href="#">C1608C0G2A182K080AA</a>
			±5%			<a href="#">C1608C0G2E182J080AA</a>	<a href="#">C1608C0G2A182J080AA</a>
	2012	0.85±0.15	±10%		<a href="#">C2012C0G2W182K085AA</a>		<a href="#">C2012C0G2A182K085AA</a>
			±5%		<a href="#">C2012C0G2W182J085AA</a>		<a href="#">C2012C0G2A182J085AA</a>
	3216	1.15±0.15	±10%		<a href="#">C3216C0G2J182K115AA</a>		
			±5%		<a href="#">C3216C0G2J182J115AA</a>		
2.2nF	1608	0.80±0.10	±10%			<a href="#">C1608C0G2E222K080AA</a>	<a href="#">C1608C0G2A222K080AA</a>
			±5%			<a href="#">C1608C0G2E222J080AA</a>	<a href="#">C1608C0G2A222J080AA</a>
	2012	0.80±0.15,-0.10	±10%				<a href="#">C2012C0G2A222K085AA</a>
			±5%		<a href="#">C2012C0G2W222K085AA</a>	<a href="#">C2012C0G2E222J085AA</a>	<a href="#">C2012C0G2A222J085AA</a>
	3216	1.15±0.15	±10%		<a href="#">C3216C0G2J222K115AA</a>		
			±5%		<a href="#">C3216C0G2J222J115AA</a>		
2.7nF	1608	0.80±0.15,-0.10	±10%			<a href="#">C1608C0G2A272K080AA</a>	<a href="#">C1608C0G2A272J080AA</a>
			±5%			<a href="#">C1608C0G2A272K125AA</a>	<a href="#">C1608C0G2A272J125AA</a>
	2012	1.25±0.20	±10%		<a href="#">C2012C0G2W272K125AA</a>	<a href="#">C2012C0G2E272K125AA</a>	<a href="#">C2012C0G2A272K125AA</a>
			±5%		<a href="#">C2012C0G2W272J125AA</a>	<a href="#">C2012C0G2E272J125AA</a>	<a href="#">C2012C0G2A272J125AA</a>
	3216	1.60±0.20	±10%		<a href="#">C3216C0G2J272K160AA</a>		
			±5%		<a href="#">C3216C0G2J272J160AA</a>		
3.3nF	1608	0.80±0.15,-0.10	±10%			<a href="#">C1608C0G2A332K080AA</a>	<a href="#">C1608C0G2A332J080AA</a>
			±5%			<a href="#">C1608C0G2A332K125AA</a>	<a href="#">C1608C0G2A332J125AA</a>
	2012	0.85±0.15	±10%			<a href="#">C2012C0G2E332K085AA</a>	<a href="#">C2012C0G2A332K125AA</a>
			±5%		<a href="#">C2012C0G2W332K125AA</a>	<a href="#">C2012C0G2E332J085AA</a>	<a href="#">C2012C0G2A332J125AA</a>
	3216	1.60±0.20	±10%		<a href="#">C3216C0G2J332K160AA</a>	<a href="#">C3216C0G2E332K085AA</a>	
			±5%		<a href="#">C3216C0G2J332J160AA</a>	<a href="#">C3216C0G2E332J085AA</a>	
3.9nF	1608	0.80±0.10	±10%			<a href="#">C1608C0G2A392K080AC</a>	<a href="#">C1608C0G2A392J080AC</a>
			±5%			<a href="#">C1608C0G2A392K125AA</a>	<a href="#">C1608C0G2A392J125AA</a>
	2012	1.25±0.20	±10%		<a href="#">C2012C0G2W392K125AA</a>	<a href="#">C2012C0G2E392K125AA</a>	<a href="#">C2012C0G2A392K125AA</a>
			±5%		<a href="#">C2012C0G2W392J125AA</a>	<a href="#">C2012C0G2E392J125AA</a>	<a href="#">C2012C0G2A392J125AA</a>
	3216	0.60±0.15	±10%				<a href="#">C3216C0G2A392K060AA</a>
			±5%		<a href="#">C3216C0G2J392K085AA</a>	<a href="#">C3216C0G2E392J085AA</a>	<a href="#">C3216C0G2A392J060AA</a>
3225	1.25±0.20	±10%		<a href="#">C3225C0G2J392K125AA</a>	<a href="#">C3216C0G2E392K115AA</a>		
		±5%		<a href="#">C3225C0G2J392J125AA</a>	<a href="#">C3216C0G2E392J115AA</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: 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
4.7nF	1608	0.80±0.10	±10%				C1608C0G2A472K080AC
			±5%				C1608C0G2A472J080AC
	2012	1.25±0.20	±10%		C2012C0G2W472K125AA	C2012C0G2E472K125AA	C2012C0G2A472K125AA
			±5%		C2012C0G2W472J125AA	C2012C0G2E472J125AA	C2012C0G2A472J125AA
	3216	0.85±0.15	±10%	C3216C0G2J472K085AA			C3216C0G2A472K085AA
			±5%	C3216C0G2J472J085AA			C3216C0G2A472J085AA
	3216	1.15±0.15	±10%			C3216C0G2E472K115AA	
			±5%			C3216C0G2E472J115AA	
	3225	1.60±0.20	±10%	C3225C0G2J472K160AA			
			±5%	C3225C0G2J472J160AA			
5.6nF	1608	0.80±0.10	±10%				C1608C0G2A562K080AC
			±5%				C1608C0G2A562J080AC
	2012	1.25±0.20	±10%		C2012C0G2W562K125AA	C2012C0G2E562K125AA	C2012C0G2A562K125AA
			±5%		C2012C0G2W562J125AA	C2012C0G2E562J125AA	C2012C0G2A562J125AA
	3216	0.85±0.15	±10%				C3216C0G2A562K085AA
			±5%				C3216C0G2A562J085AA
	3216	1.15±0.15	±10%	C3216C0G2J562K115AA		C3216C0G2E562K115AA	
			±5%	C3216C0G2J562J115AA		C3216C0G2E562J115AA	
	3225	1.60±0.20	±10%	C3225C0G2J562K160AA			
			±5%	C3225C0G2J562J160AA			
6.8nF	1608	0.80±0.10	±10%				C1608C0G2A682K080AC
			±5%				C1608C0G2A682J080AC
	2012	1.25±0.20	±10%			C2012C0G2E682K125AA	C2012C0G2A682K125AA
			±5%			C2012C0G2E682J125AA	C2012C0G2A682J125AA
	3216	1.15±0.15	±10%	C3216C0G2J682K115AA	C3216C0G2W682K115AA		C3216C0G2A682K115AA
			±5%	C3216C0G2J682J115AA	C3216C0G2W682J115AA		C3216C0G2A682J115AA
	3216	1.60±0.20	±10%			C3216C0G2E682K160AA	
			±5%			C3216C0G2E682J160AA	
	3225	2.00±0.20	±10%	C3225C0G2J682K200AA			
			±5%	C3225C0G2J682J200AA			
8.2nF	1608	0.80±0.10	±10%				C1608C0G2A822K080AC
			±5%				C1608C0G2A822J080AC
	2012	1.25±0.20	±10%			C2012C0G2E822K125AA	C2012C0G2A822K125AA
			±5%			C2012C0G2E822J125AA	C2012C0G2A822J125AA
	3216	1.15±0.15	±10%		C3216C0G2W822K115AA		C3216C0G2A822K115AA
			±5%		C3216C0G2W822J115AA		C3216C0G2A822J115AA
	3216	1.60±0.20	±10%	C3216C0G2J822K160AA		C3216C0G2E822K160AA	
			±5%	C3216C0G2J822J160AA		C3216C0G2E822J160AA	
	3225	1.25±0.20	±10%	C3225C0G2J822K125AA			
			±5%	C3225C0G2J822J125AA			
4532	1.60±0.20	±10%	C4532C0G2J822K160KA				
		±5%	C4532C0G2J822J160KA				
10nF	1608	0.80±0.10	±10%				C1608C0G2A103K080AC
			±5%				C1608C0G2A103J080AC
	2012	1.25±0.20	±10%			C2012C0G2E103K125AA	C2012C0G2A103K125AA
			±5%			C2012C0G2E103J125AA	C2012C0G2A103J125AA
	3216	1.15±0.15	±10%			C3216C0G2E103K115AA	C3216C0G2A103K115AA
			±5%			C3216C0G2E103J115AA	C3216C0G2A103J115AA
	3216	1.60±0.20	±10%	C3216C0G2J103K160AA	C3216C0G2W103K160AA		
			±5%	C3216C0G2J103J160AA	C3216C0G2W103J160AA		
	3225	1.25±0.20	±10%	C3225C0G2J103K125AA			
			±5%	C3225C0G2J103J125AA			
3225	1.60±0.20	±10%			C3225C0G2E103K160AA		
		±5%			C3225C0G2E103J160AA		
4532	1.60±0.20	±10%	C4532C0G2J103K160KA				
		±5%	C4532C0G2J103J160KA				

■ 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
15nF	2012	0.85±0.15	±10%				<a href="#">C2012C0G2A153K085AC</a>
			±5%				<a href="#">C2012C0G2A153J085AC</a>
		1.15±0.15	±10%				<a href="#">C3216C0G2A153K115AA</a>
			±5%				<a href="#">C3216C0G2A153J115AA</a>
	3216	1.60±0.20	±10%			<a href="#">C3216C0G2E153K160AA</a>	
			±5%			<a href="#">C3216C0G2E153J160AA</a>	
		1.60+0.30,-0.10	±10%		<a href="#">C3216C0G2W153K160AA</a>		
			±5%		<a href="#">C3216C0G2W153J160AA</a>		
		1.25±0.20	±10%				<a href="#">C3225C0G2A153K125AA</a>
			±5%				<a href="#">C3225C0G2A153J125AA</a>
3225	1.60±0.20	±10%	<a href="#">C3225C0G2J153K160AA</a>				
		±5%	<a href="#">C3225C0G2J153J160AA</a>				
	2.00±0.20	±10%			<a href="#">C3225C0G2E153K200AA</a>		
		±5%			<a href="#">C3225C0G2E153J200AA</a>		
4532	2.50±0.30	±10%	<a href="#">C4532C0G2J153K250KA</a>				
		±5%	<a href="#">C4532C0G2J153J250KA</a>				
22nF	2012	1.25±0.20	±10%				<a href="#">C2012C0G2A223K125AC</a>
			±5%				<a href="#">C2012C0G2A223J125AC</a>
	3216	1.60±0.20	±10%				<a href="#">C3216C0G2A223K160AA</a>
			±5%				<a href="#">C3216C0G2A223J160AA</a>
		1.60+0.30,-0.10	±10%			<a href="#">C3216C0G2E223K160AA</a>	
			±5%			<a href="#">C3216C0G2E223J160AA</a>	
		1.60±0.20	±10%			<a href="#">C3225C0G2A223K160AA</a>	<a href="#">C3225C0G2A223K160AA</a>
			±5%			<a href="#">C3225C0G2E223J160AA</a>	<a href="#">C3225C0G2A223J160AA</a>
	3225	2.30±0.20	±10%	<a href="#">C3225C0G2J223K230AA</a>	<a href="#">C3225C0G2W223K230AA</a>		
			±5%	<a href="#">C3225C0G2J223J230AA</a>	<a href="#">C3225C0G2W223J230AA</a>		
	1.60±0.20	±10%			<a href="#">C4532C0G2E223K160KA</a>		
		±5%			<a href="#">C4532C0G2E223J160KA</a>		
4532	3.20±0.30	±10%	<a href="#">C4532C0G2J223K320KA</a>				
		±5%	<a href="#">C4532C0G2J223J320KA</a>				
33nF	2012	1.25±0.20	±10%				<a href="#">C2012C0G2A333K125AC</a>
			±5%				<a href="#">C2012C0G2A333J125AC</a>
	3216	1.60+0.30,-0.10	±10%				<a href="#">C3216C0G2A333K160AA</a>
			±5%				<a href="#">C3216C0G2A333J160AA</a>
		2.00±0.20	±10%				<a href="#">C3225C0G2A333K200AA</a>
			±5%				<a href="#">C3225C0G2A333J200AA</a>
	3225	2.30±0.20	±10%		<a href="#">C3225C0G2E333K230AA</a>		
			±5%		<a href="#">C3225C0G2E333J230AA</a>		
		2.50±0.30	±10%	<a href="#">C3225C0G2J333K250AA</a>	<a href="#">C3225C0G2W333K250AA</a>		
			±5%	<a href="#">C3225C0G2J333J250AA</a>	<a href="#">C3225C0G2W333J250AA</a>		
4532	2.00±0.20	±10%	<a href="#">C4532C0G2J333K200KA</a>		<a href="#">C4532C0G2E333K200KA</a>		
		±5%	<a href="#">C4532C0G2J333J200KA</a>		<a href="#">C4532C0G2E333J200KA</a>		
47nF	3216	1.15±0.15	±10%				<a href="#">C3216C0G2A473K115AC</a>
			±5%				<a href="#">C3216C0G2A473J115AC</a>
	3225	2.30±0.20	±10%				<a href="#">C3225C0G2A473K230AA</a>
			±5%				<a href="#">C3225C0G2A473J230AA</a>
		2.50±0.30	±10%			<a href="#">C3225C0G2E473K250AA</a>	
			±5%			<a href="#">C3225C0G2E473J250AA</a>	
		2.00±0.20	±10%				<a href="#">C4532C0G2A473K200KA</a>
			±5%				<a href="#">C4532C0G2A473J200KA</a>
	4532	2.30±0.20	±10%		<a href="#">C4532C0G2W473K230KA</a>		
			±5%		<a href="#">C4532C0G2W473J230KA</a>		
	3.20±0.30	±10%	<a href="#">C4532C0G2J473K320KA</a>		<a href="#">C4532C0G2E473K320KA</a>		
		±5%	<a href="#">C4532C0G2J473J320KA</a>		<a href="#">C4532C0G2E473J320KA</a>		
68nF	3216	1.60±0.20	±10%				<a href="#">C3216C0G2A683K160AC</a>
			±5%				<a href="#">C3216C0G2A683J160AC</a>
	3225	2.30±0.20	±10%				<a href="#">C3225C0G2A683K230AA</a>
			±5%				<a href="#">C3225C0G2A683J230AA</a>
		2.30±0.20	±10%			<a href="#">C4532C0G2E683K230KN</a>	
			±5%			<a href="#">C4532C0G2E683J230KN</a>	
	4532	2.50±0.30	±10%				<a href="#">C4532C0G2A683K250KA</a>
			±5%				<a href="#">C4532C0G2A683J250KA</a>
		3.20±0.30	±10%		<a href="#">C4532C0G2W683K320KA</a>		
			±5%		<a href="#">C4532C0G2W683J320KA</a>		
5750	2.30±0.20	±10%	<a href="#">C5750C0G2J683K230KC</a>				
		±5%	<a href="#">C5750C0G2J683J230KC</a>				

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

Click the part numbers for details.

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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
100nF	3216	1.60±0.20	±10%				<a href="#">C3216C0G2A104K160AC</a>
			±5%				<a href="#">C3216C0G2A104J160AC</a>
	4532	3.20±0.30	±10%			<a href="#">C4532C0G2E104K320KN</a>	<a href="#">C4532C0G2A104K320KA</a>
			±5%			<a href="#">C4532C0G2E104J320KN</a>	<a href="#">C4532C0G2A104J320KA</a>
	5750	2.80±0.30	±10%	<a href="#">C5750C0G2J104K280KC</a>	<a href="#">C5750C0G2W104K280KA</a>		
			±5%	<a href="#">C5750C0G2J104J280KC</a>	<a href="#">C5750C0G2W104J280KA</a>		
150nF	5750	2.30±0.20	±10%			<a href="#">C5750C0G2E154K230KN</a>	<a href="#">C5750C0G2A154K230KA</a>
			±5%			<a href="#">C5750C0G2E154J230KN</a>	<a href="#">C5750C0G2A154J230KA</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: 630V	Rated voltage Edc: 250V	Rated voltage Edc: 100V
1nF	1608	0.80±0.10	±10%			C1608X5R2A102K080AA
			±20%			C1608X5R2A102M080AA
	2012	0.85±0.15	±10%		C2012X5R2E102K085AA	
			±20%		C2012X5R2E102M085AA	
	3216	1.15±0.15	±10%	C3216X5R2J102K115AA		
			±20%	C3216X5R2J102M115AA		
1.5nF	1608	0.80±0.10	±10%			C1608X5R2A152K080AA
			±20%			C1608X5R2A152M080AA
	2012	0.85±0.15	±10%		C2012X5R2E152K085AA	
			±20%		C2012X5R2E152M085AA	
	3216	1.15±0.15	±10%	C3216X5R2J152K115AA		
			±20%	C3216X5R2J152M115AA		
2.2nF	1608	0.80±0.10	±10%			C1608X5R2A222K080AA
			±20%			C1608X5R2A222M080AA
	2012	0.85±0.15	±10%		C2012X5R2E222K085AA	
			±20%		C2012X5R2E222M085AA	
	3216	1.15±0.15	±10%	C3216X5R2J222K115AA		
			±20%	C3216X5R2J222M115AA		
3.3nF	1608	0.80±0.10	±10%			C1608X5R2A332K080AA
			±20%			C1608X5R2A332M080AA
	2012	0.85±0.15	±10%		C2012X5R2E332K085AA	
			±20%		C2012X5R2E332M085AA	
	3216	1.15±0.15	±10%	C3216X5R2J332K115AA		
			±20%	C3216X5R2J332M115AA		
4.7nF	1608	0.80±0.10	±10%			C1608X5R2A472K080AA
			±20%			C1608X5R2A472M080AA
	2012	0.85±0.15	±10%		C2012X5R2E472K085AA	
			±20%		C2012X5R2E472M085AA	
	3216	1.15±0.15	±10%	C3216X5R2J472K115AA		
			±20%	C3216X5R2J472M115AA		
6.8nF	1608	0.80±0.10	±10%			C1608X5R2A682K080AA
			±20%			C1608X5R2A682M080AA
	2012	1.25±0.20	±10%		C2012X5R2E682K125AA	
			±20%		C2012X5R2E682M125AA	
	3216	1.15±0.15	±10%	C3216X5R2J682K115AA		
			±20%	C3216X5R2J682M115AA		
10nF	1608	0.80±0.10	±10%			C1608X5R2A103K080AA
			±20%			C1608X5R2A103M080AA
	2012	1.25±0.20	±10%		C2012X5R2E103K125AA	
			±20%		C2012X5R2E103M125AA	
	3216	1.15±0.15	±10%	C3216X5R2J103K115AA		
			±20%	C3216X5R2J103M115AA		
15nF	1608	0.80±0.10	±10%			C1608X5R2A153K080AA
			±20%			C1608X5R2A153M080AA
	2012	1.25±0.20	±10%		C2012X5R2E153K125AA	
			±20%		C2012X5R2E153M125AA	
	3216	1.30±0.20	±10%	C3216X5R2J153K130AA		
			±20%	C3216X5R2J153M130AA		
22nF	1608	0.80±0.10	±10%			C1608X5R2A223K080AA
			±20%			C1608X5R2A223M080AA
	2012	1.25±0.20	±10%		C2012X5R2E223K125AA	
			±20%		C2012X5R2E223M125AA	
	3216	1.30±0.20	±10%	C3216X5R2J223K130AA		
			±20%	C3216X5R2J223M130AA		
33nF	2012	1.25±0.20	±10%			C2012X5R2A333K125AA
			±20%			C2012X5R2A333M125AA
	3216	1.60±0.20	±10%	C3216X5R2J333K160AA	C3216X5R2E333K160AA	
			±20%	C3216X5R2J333M160AA	C3216X5R2E333M160AA	
	2012	1.25±0.20	±10%			C2012X5R2A473K125AA
			±20%			C2012X5R2A473M125AA
3216	1.60±0.20	±10%		C3216X5R2E473K160AA		
		±20%		C3216X5R2E473M160AA		
68nF	3225	2.00±0.20	±10%	C3225X5R2J473K200AA		
			±20%	C3225X5R2J473M200AA		
	2012	0.85±0.15	±10%			C2012X5R2A683K085AA
			±20%			C2012X5R2A683M085AA
	3216	1.60±0.20	±10%		C3216X5R2E683K160AA	
			±20%		C3216X5R2E683M160AA	
3225	2.00±0.20	±10%	C3225X5R2J683K200AA			
		±20%	C3225X5R2J683M200AA			

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## 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: 630V	Rated voltage Edc: 250V	Rated voltage Edc: 100V
100nF	2012	1.25±0.20	±10%			<a href="#">C2012X5R2A104K125AA</a>
			±20%			<a href="#">C2012X5R2A104M125AA</a>
	3216	1.60±0.20	±10%		<a href="#">C3216X5R2E104K160AA</a>	
			±20%		<a href="#">C3216X5R2E104M160AA</a>	
4532	2.30±0.20	±10%	<a href="#">C4532X5R2J104K230KA</a>			
		±20%	<a href="#">C4532X5R2J104M230KA</a>			
150nF	3216	1.60±0.20	±10%			<a href="#">C3216X5R2A154K160AA</a>
			±20%			<a href="#">C3216X5R2A154M160AA</a>
	3225	2.00±0.20	±10%		<a href="#">C3225X5R2E154K200AA</a>	
			±20%		<a href="#">C3225X5R2E154M200AA</a>	
5750	1.60±0.20	±10%	<a href="#">C5750X5R2J154K160KA</a>			
		±20%	<a href="#">C5750X5R2J154M160KA</a>			
220nF	3216	1.15±0.15	±10%			<a href="#">C3216X5R2A224K115AA</a>
			±20%			<a href="#">C3216X5R2A224M115AA</a>
	3225	2.00±0.20	±10%		<a href="#">C3225X5R2E224K200AA</a>	
			±20%		<a href="#">C3225X5R2E224M200AA</a>	
5750	2.30±0.20	±10%	<a href="#">C5750X5R2J224K230KA</a>			
		±20%	<a href="#">C5750X5R2J224M230KA</a>			
330nF	3216	1.30±0.20	±10%			<a href="#">C3216X5R2A334K130AA</a>
			±20%			<a href="#">C3216X5R2A334M130AA</a>
	4532	2.30±0.20	±10%		<a href="#">C4532X5R2E334K230KA</a>	
			±20%		<a href="#">C4532X5R2E334M230KA</a>	
470nF	3216	1.60±0.20	±10%			<a href="#">C3216X5R2A474K160AA</a>
			±20%			<a href="#">C3216X5R2A474M160AA</a>
	4532	2.30±0.20	±10%		<a href="#">C4532X5R2E474K230KA</a>	
			±20%		<a href="#">C4532X5R2E474M230KA</a>	
680nF	3216	1.60±0.20	±10%			<a href="#">C3216X5R2A684K160AA</a>
			±20%			<a href="#">C3216X5R2A684M160AA</a>
	5750	2.30±0.20	±10%		<a href="#">C5750X5R2E684K230KA</a>	
			±20%		<a href="#">C5750X5R2E684M230KA</a>	
1µF	3216	1.60±0.20	±10%			<a href="#">C3216X5R2A105K160AA</a>
			±20%			<a href="#">C3216X5R2A105M160AA</a>
	5750	2.30±0.20	±10%		<a href="#">C5750X5R2E105K230KA</a>	
			±20%		<a href="#">C5750X5R2E105M230KA</a>	
1.5µF	3225	2.00±0.20	±10%			<a href="#">C3225X5R2A155K200AB</a>
			±20%			<a href="#">C3225X5R2A155M200AB</a>
2.2µF	3225	2.30±0.20	±10%			<a href="#">C3225X5R2A225K230AB</a>
			±20%			<a href="#">C3225X5R2A225M230AB</a>
3.3µF	5750	2.30±0.20	±10%			<a href="#">C5750X5R2A335K230KA</a>
			±20%			<a href="#">C5750X5R2A335M230KA</a>
4.7µF	2012	1.25+0.25,-0.15	±10%			<a href="#">C2012X5R2A475K125AC</a>
	5750	2.30±0.20	±10%			<a href="#">C5750X5R2A475K230KA</a>
			±20%			<a href="#">C5750X5R2A475M230KA</a>

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

## Capacitance range table

Temperature characteristic: X6S (-55 to +105°C,±22%)

Capacitance	Dimensions	Thickness (mm)	Capacitance tolerance	Catalog number	
				Rated voltage Edc: 450V	Rated voltage Edc: 100V
1µF	5750	2.50±0.30	±10%	<a href="#">C5750X6S2W105K250KA</a>	
			±20%	<a href="#">C5750X6S2W105M250KA</a>	
2.2µF	5750	2.50±0.30	±10%	<a href="#">C5750X6S2W225K250KA</a>	
			±20%	<a href="#">C5750X6S2W225M250KA</a>	
10µF	3216	1.60+0.30,-0.10	±10%		<a href="#">C3216X6S2A106K160AC</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: 630V	Rated voltage Edc: 250V	Rated voltage Edc: 100V
1nF	1608	0.80±0.10	±10%			<a href="#">C1608X7R2A102K080AA</a>
			±20%			<a href="#">C1608X7R2A102M080AA</a>
	2012	0.85±0.15	±10%		<a href="#">C2012X7R2E102K085AA</a>	<a href="#">C2012X7R2A102K085AA</a>
			±20%		<a href="#">C2012X7R2E102M085AA</a>	<a href="#">C2012X7R2A102M085AA</a>
3216	1.15±0.15	±10%	<a href="#">C3216X7R2J102K115AA</a>			
		±20%	<a href="#">C3216X7R2J102M115AA</a>			
1.5nF	1608	0.80±0.10	±10%			<a href="#">C1608X7R2A152K080AA</a>
			±20%			<a href="#">C1608X7R2A152M080AA</a>
	2012	0.85±0.15	±10%		<a href="#">C2012X7R2E152K085AA</a>	<a href="#">C2012X7R2A152K085AA</a>
			±20%		<a href="#">C2012X7R2E152M085AA</a>	<a href="#">C2012X7R2A152M085AA</a>
3216	1.15±0.15	±10%	<a href="#">C3216X7R2J152K115AA</a>			
		±20%	<a href="#">C3216X7R2J152M115AA</a>			
2.2nF	1608	0.80±0.10	±10%			<a href="#">C1608X7R2A222K080AA</a>
			±20%			<a href="#">C1608X7R2A222M080AA</a>
	2012	0.85±0.15	±10%		<a href="#">C2012X7R2E222K085AA</a>	<a href="#">C2012X7R2A222K085AA</a>
			±20%		<a href="#">C2012X7R2E222M085AA</a>	<a href="#">C2012X7R2A222M085AA</a>
3216	1.15±0.15	±10%	<a href="#">C3216X7R2J222K115AA</a>			
		±20%	<a href="#">C3216X7R2J222M115AA</a>			
3.3nF	1608	0.80±0.10	±10%			<a href="#">C1608X7R2A332K080AA</a>
			±20%			<a href="#">C1608X7R2A332M080AA</a>
	2012	0.85±0.15	±10%		<a href="#">C2012X7R2E332K085AA</a>	<a href="#">C2012X7R2A332K085AA</a>
			±20%		<a href="#">C2012X7R2E332M085AA</a>	<a href="#">C2012X7R2A332M085AA</a>
3216	1.15±0.15	±10%	<a href="#">C3216X7R2J332K115AA</a>			
		±20%	<a href="#">C3216X7R2J332M115AA</a>			
4.7nF	1608	0.80±0.10	±10%			<a href="#">C1608X7R2A472K080AA</a>
			±20%			<a href="#">C1608X7R2A472M080AA</a>
	2012	0.85±0.15	±10%		<a href="#">C2012X7R2E472K085AA</a>	<a href="#">C2012X7R2A472K085AA</a>
			±20%		<a href="#">C2012X7R2E472M085AA</a>	<a href="#">C2012X7R2A472M085AA</a>
3216	1.15±0.15	±10%	<a href="#">C3216X7R2J472K115AA</a>			
		±20%	<a href="#">C3216X7R2J472M115AA</a>			
6.8nF	1608	0.80±0.10	±10%			<a href="#">C1608X7R2A682K080AA</a>
			±20%			<a href="#">C1608X7R2A682M080AA</a>
	2012	0.85±0.15	±10%			<a href="#">C2012X7R2A682K085AA</a>
			±20%		<a href="#">C2012X7R2A682M085AA</a>	
3216	1.15±0.15	±10%		<a href="#">C2012X7R2E682K125AA</a>		
		±20%		<a href="#">C2012X7R2E682M125AA</a>		
10nF	1608	0.80±0.10	±10%			<a href="#">C1608X7R2A103K080AA</a>
			±20%			<a href="#">C1608X7R2A103M080AA</a>
	2012	0.85±0.15	±10%			<a href="#">C2012X7R2A103K085AA</a>
			±20%		<a href="#">C2012X7R2A103M085AA</a>	
3216	1.15±0.15	±10%	<a href="#">C3216X7R2J103K115AA</a>			
		±20%	<a href="#">C3216X7R2J103M115AA</a>			
15nF	1608	0.80±0.10	±10%			<a href="#">C1608X7R2A153K080AA</a>
			±20%			<a href="#">C1608X7R2A153M080AA</a>
	2012	1.25±0.20	±10%		<a href="#">C2012X7R2E153K125AA</a>	<a href="#">C2012X7R2A153K125AA</a>
			±20%		<a href="#">C2012X7R2E153M125AA</a>	<a href="#">C2012X7R2A153M125AA</a>
3216	1.15±0.15	±10%		<a href="#">C3216X7R2E153K115AA</a>		
		±20%		<a href="#">C3216X7R2E153M115AA</a>		
22nF	1608	0.80±0.10	±10%			<a href="#">C1608X7R2A223K080AA</a>
			±20%			<a href="#">C1608X7R2A223M080AA</a>
	2012	1.25±0.20	±10%		<a href="#">C2012X7R2E223K125AA</a>	<a href="#">C2012X7R2A223K125AA</a>
			±20%		<a href="#">C2012X7R2E223M125AA</a>	<a href="#">C2012X7R2A223M125AA</a>
3216	1.15±0.15	±10%		<a href="#">C3216X7R2E223K115AA</a>		
		±20%		<a href="#">C3216X7R2E223M115AA</a>		
33nF	1608	0.80±0.10	±10%			<a href="#">C1608X7R2A333K125AA</a>
			±20%			<a href="#">C1608X7R2A333M125AA</a>
	2012	1.25±0.20	±10%			<a href="#">C2012X7R2A333K115AA</a>
			±20%		<a href="#">C2012X7R2A333M115AA</a>	
3216	1.15±0.15	±10%			<a href="#">C3216X7R2J333K160AA</a>	
		±20%		<a href="#">C3216X7R2J333M160AA</a>		
3216	1.60±0.20	±10%	<a href="#">C3216X7R2J333K160AA</a>	<a href="#">C3216X7R2E333K160AA</a>		
		±20%	<a href="#">C3216X7R2J333M160AA</a>	<a href="#">C3216X7R2E333M160AA</a>		

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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
47nF	2012	1.25±0.20	±10%			<a href="#">C2012X7R2A473K125AA</a>
			±20%			<a href="#">C2012X7R2A473M125AA</a>
	3216	1.15±0.15	±10%			<a href="#">C3216X7R2A473K115AA</a>
			±20%			<a href="#">C3216X7R2A473M115AA</a>
	3216	1.60±0.20	±10%		<a href="#">C3216X7R2E473K160AA</a>	
			±20%		<a href="#">C3216X7R2E473M160AA</a>	
3225	2.00±0.20	±10%	<a href="#">C3225X7R2J473K200AA</a>			
		±20%	<a href="#">C3225X7R2J473M200AA</a>			
68nF	2012	0.85±0.15	±10%			<a href="#">C2012X7R2A683K085AA</a>
			±20%			<a href="#">C2012X7R2A683M085AA</a>
	3216	1.60±0.20	±10%		<a href="#">C3216X7R2E683K160AA</a>	<a href="#">C3216X7R2A683K160AA</a>
			±20%		<a href="#">C3216X7R2E683M160AA</a>	<a href="#">C3216X7R2A683M160AA</a>
	3225	2.00±0.20	±10%	<a href="#">C3225X7R2J683K200AA</a>		
			±20%	<a href="#">C3225X7R2J683M200AA</a>		
4532	1.60±0.20	±10%	<a href="#">C4532X7R2J683K160KA</a>			
		±20%	<a href="#">C4532X7R2J683M160KA</a>			
100nF	2012	1.25±0.20	±10%			<a href="#">C2012X7R2A104K125AA</a>
			±20%			<a href="#">C2012X7R2A104M125AA</a>
	3216	1.60±0.20	±10%		<a href="#">C3216X7R2E104K160AA</a>	<a href="#">C3216X7R2A104K160AA</a>
			±20%		<a href="#">C3216X7R2E104M160AA</a>	<a href="#">C3216X7R2A104M160AA</a>
	3225	2.00±0.20	±10%	<a href="#">C3225X7R2E104K200AA</a>		
			±20%	<a href="#">C3225X7R2E104M200AA</a>		
4532	2.30±0.20	±10%	<a href="#">C4532X7R2J104K230KA</a>			
		±20%	<a href="#">C4532X7R2J104M230KA</a>			
150nF	3216	1.60±0.20	±10%			<a href="#">C3216X7R2A154K160AA</a>
			±20%			<a href="#">C3216X7R2A154M160AA</a>
	3225	2.00±0.20	±10%		<a href="#">C3225X7R2E154K200AA</a>	
			±20%		<a href="#">C3225X7R2E154M200AA</a>	
	4532	1.60±0.20	±10%		<a href="#">C4532X7R2E154K160KA</a>	
			±20%		<a href="#">C4532X7R2E154M160KA</a>	
5750	1.60±0.20	±10%	<a href="#">C5750X7R2J154K160KA</a>			
		±20%	<a href="#">C5750X7R2J154M160KA</a>			
220nF	3216	1.15±0.15	±10%			<a href="#">C3216X7R2A224K115AA</a>
			±20%			<a href="#">C3216X7R2A224M115AA</a>
	3225	2.00±0.20	±10%		<a href="#">C3225X7R2E224K200AA</a>	
			±20%		<a href="#">C3225X7R2E224M200AA</a>	
	4532	2.30±0.20	±10%	<a href="#">C4532X7R2E224K230KA</a>		
			±20%	<a href="#">C4532X7R2E224M230KA</a>		
5750	2.30±0.20	±10%	<a href="#">C5750X7R2J224K230KA</a>			
		±20%	<a href="#">C5750X7R2J224M230KA</a>			
330nF	3216	1.30±0.20	±10%			<a href="#">C3216X7R2A334K130AA</a>
			±20%			<a href="#">C3216X7R2A334M130AA</a>
	3225	2.00±0.20	±10%		<a href="#">C3225X7R2A334K200AA</a>	
			±20%		<a href="#">C3225X7R2A334M200AA</a>	
	4532	2.30±0.20	±10%		<a href="#">C4532X7R2E334K230KA</a>	
			±20%		<a href="#">C4532X7R2E334M230KA</a>	
5750	1.60±0.20	±10%	<a href="#">C5750X7R2E334K160KA</a>			
		±20%	<a href="#">C5750X7R2E334M160KA</a>			
470nF	3216	1.60±0.20	±10%			<a href="#">C3216X7R2A474K160AA</a>
			±20%			<a href="#">C3216X7R2A474M160AA</a>
	3225	2.00±0.20	±10%		<a href="#">C3225X7R2A474K200AA</a>	
			±20%		<a href="#">C3225X7R2A474M200AA</a>	
	4532	2.30±0.20	±10%	<a href="#">C4532X7R2E474K230KA</a>		
			±20%	<a href="#">C4532X7R2E474M230KA</a>		
5750	2.30±0.20	±10%	<a href="#">C5750X7R2E474K230KA</a>			
		±20%	<a href="#">C5750X7R2E474M230KA</a>			
680nF	3216	1.60±0.20	±10%			<a href="#">C3216X7R2A684K160AA</a>
			±20%			<a href="#">C3216X7R2A684M160AA</a>
	3225	1.60±0.20	±10%		<a href="#">C3225X7R2A684K160AA</a>	
			±20%		<a href="#">C3225X7R2A684M160AA</a>	
	4532	2.30±0.20	±10%		<a href="#">C4532X7R2A684K230KA</a>	
			±20%		<a href="#">C4532X7R2A684M230KA</a>	
5750	1.60±0.20	±10%		<a href="#">C5750X7R2A684K160KA</a>		
		±20%		<a href="#">C5750X7R2A684M160KA</a>		
	2.30±0.20	±10%		<a href="#">C5750X7R2E684K230KA</a>		
		±20%		<a href="#">C5750X7R2E684M230KA</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: 250V	Rated voltage Edc: 100V
1μF	1608	0.80±0.20,-0.10	±10%		<a href="#">C1608X7R2A105K080AC</a>
	3216	1.60±0.20	±10%		<a href="#">C3216X7R2A105K160AA</a>
			±20%		<a href="#">C3216X7R2A105M160AA</a>
	3225	2.00±0.20	±10%		<a href="#">C3225X7R2A105K200AA</a>
			±20%		<a href="#">C3225X7R2A105M200AA</a>
	4532	2.30±0.20	±10%		<a href="#">C4532X7R2A105K230KA</a>
		±20%		<a href="#">C4532X7R2A105M230KA</a>	
1.5μF	5750	2.30±0.20	±10%	<a href="#">C5750X7R2E105K230KA</a>	<a href="#">C5750X7R2A105K230KA</a>
			±20%	<a href="#">C5750X7R2E105M230KA</a>	<a href="#">C5750X7R2A105M230KA</a>
	3225	2.00±0.20	±10%		<a href="#">C3225X7R2A155K200AB</a>
			±20%		<a href="#">C3225X7R2A155M200AB</a>
1.5μF	4532	2.30±0.20	±10%		<a href="#">C4532X7R2A155K230KA</a>
			±20%		<a href="#">C4532X7R2A155M230KA</a>
	5750	2.30±0.20	±10%		<a href="#">C5750X7R2A155K230KA</a>
		±20%		<a href="#">C5750X7R2A155M230KA</a>	
2.2μF	2012	1.25+0.25,-0.15	±10%		<a href="#">C2012X7R2A225K125AC</a>
	3225	2.30±0.20	±10%		<a href="#">C3225X7R2A225K230AB</a>
			±20%		<a href="#">C3225X7R2A225M230AB</a>
	4532	2.30±0.20	±10%		<a href="#">C4532X7R2A225K230KA</a>
			±20%		<a href="#">C4532X7R2A225M230KA</a>
2.2μF	5750	2.30±0.20	±10%		<a href="#">C5750X7R2A225K230KA</a>
			±20%		<a href="#">C5750X7R2A225M230KA</a>
3.3μF	5750	2.30±0.20	±10%		<a href="#">C5750X7R2A335K230KA</a>
			±20%		<a href="#">C5750X7R2A335M230KA</a>
4.7μF	3216	1.60+0.30,-0.10	±10%		<a href="#">C3216X7R2A475K160AC</a>
	5750	2.30±0.20	±10%		<a href="#">C5750X7R2A475K230KA</a>
		±20%		<a href="#">C5750X7R2A475M230KA</a>	
10μF	3225	2.50+0.35,-0.30	±10%		<a href="#">C3225X7R2A106K250AC</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: 100V	
1nF	1005	0.50±0.05	±10%	<a href="#">C1005X7S2A102K050BB</a>	
			±20%	<a href="#">C1005X7S2A102M050BB</a>	
1.5nF	1005	0.50±0.05	±10%	<a href="#">C1005X7S2A152K050BB</a>	
			±20%	<a href="#">C1005X7S2A152M050BB</a>	
2.2nF	1005	0.50±0.05	±10%	<a href="#">C1005X7S2A222K050BB</a>	
			±20%	<a href="#">C1005X7S2A222M050BB</a>	
3.3nF	1005	0.50±0.05	±10%	<a href="#">C1005X7S2A332K050BB</a>	
			±20%	<a href="#">C1005X7S2A332M050BB</a>	
4.7nF	1005	0.50±0.05	±10%	<a href="#">C1005X7S2A472K050BB</a>	
			±20%	<a href="#">C1005X7S2A472M050BB</a>	
6.8nF	1005	0.50±0.05	±10%	<a href="#">C1005X7S2A682K050BB</a>	
			±20%	<a href="#">C1005X7S2A682M050BB</a>	
10nF	1005	0.50±0.05	±10%	<a href="#">C1005X7S2A103K050BB</a>	
			±20%	<a href="#">C1005X7S2A103M050BB</a>	
33nF	1608	0.80±0.10	±10%	<a href="#">C1608X7S2A333K080AB</a>	
			±20%	<a href="#">C1608X7S2A333M080AB</a>	
47nF	1608	0.80±0.10	±10%	<a href="#">C1608X7S2A473K080AB</a>	
			±20%	<a href="#">C1608X7S2A473M080AB</a>	
68nF	1608	0.80±0.10	±10%	<a href="#">C1608X7S2A683K080AB</a>	
			±20%	<a href="#">C1608X7S2A683M080AB</a>	
100nF	1608	0.80±0.10	±10%	<a href="#">C1608X7S2A104K080AB</a>	
			±20%	<a href="#">C1608X7S2A104M080AB</a>	
150nF	2012	0.85±0.15	±10%	<a href="#">C2012X7S2A154K085AB</a>	
			±20%	<a href="#">C2012X7S2A154M085AB</a>	
220nF	2012	0.85±0.15	±10%	<a href="#">C2012X7S2A224K085AB</a>	
			±20%	<a href="#">C2012X7S2A224M085AB</a>	
330nF	2012	1.25±0.20	±10%	<a href="#">C2012X7S2A334K125AB</a>	
			±20%	<a href="#">C2012X7S2A334M125AB</a>	
470nF	2012	1.25±0.20	±10%	<a href="#">C2012X7S2A474K125AB</a>	
			±20%	<a href="#">C2012X7S2A474M125AB</a>	
680nF	2012	1.25±0.20	±10%	<a href="#">C2012X7S2A684K125AB</a>	
			±20%	<a href="#">C2012X7S2A684M125AB</a>	
1µF	2012	1.25±0.20	±10%	<a href="#">C2012X7S2A105K125AB</a>	
			±20%	<a href="#">C2012X7S2A105M125AB</a>	
1.5µF	3216	1.60±0.20	±10%	<a href="#">C3216X7S2A155K160AB</a>	
			±20%	<a href="#">C3216X7S2A155M160AB</a>	
2.2µF	3216	1.60±0.20	±10%	<a href="#">C3216X7S2A225K160AB</a>	
			±20%	<a href="#">C3216X7S2A225M160AB</a>	
3.3µF	3216	1.60+0.30,-0.10	±10%	<a href="#">C3216X7S2A335K160AB</a>	
			±20%	<a href="#">C3216X7S2A335M160AB</a>	
3.3µF	3225	2.00±0.20	±10%	<a href="#">C3225X7S2A335K200AB</a>	
			±20%	<a href="#">C3225X7S2A335M200AB</a>	
4.7µF	4532	2.00±0.20	±10%	<a href="#">C4532X7S2A335K200KB</a>	
			±20%	<a href="#">C4532X7S2A335M200KB</a>	
4.7µF	3225	2.00±0.20	±10%	<a href="#">C3225X7S2A475K200AB</a>	
			±20%	<a href="#">C3225X7S2A475M200AB</a>	
6.8µF	4532	2.30±0.20	±10%	<a href="#">C4532X7S2A475K230KB</a>	
			±20%	<a href="#">C4532X7S2A475M230KB</a>	
6.8µF	5750	2.00±0.20	±10%	<a href="#">C5750X7S2A685K200KB</a>	
			±20%	<a href="#">C5750X7S2A685M200KB</a>	
10µF	5750	2.30±0.20	±10%	<a href="#">C5750X7S2A106K230KB</a>	
			±20%	<a href="#">C5750X7S2A106M230KB</a>	
15µF	5750	2.50±0.30	±20%	<a href="#">C5750X7S2A156M250KB</a>	
22µF	5750	2.80±0.30	±20%	<a href="#">C5750X7S2A226M280KB</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: 630V	Rated voltage Edc: 450V	Rated voltage Edc: 350V	Rated voltage Edc: 250V
10nF	2012	0.85±0.15	±10%		<a href="#">C2012X7T2W103K085AA</a>	<a href="#">C2012X7T2V103K085AA</a>	
			±20%		<a href="#">C2012X7T2W103M085AA</a>	<a href="#">C2012X7T2V103M085AA</a>	
10nF	3216	0.85±0.15	±10%	<a href="#">C3216X7T2J103K085AC</a>			
			±20%	<a href="#">C3216X7T2J103M085AC</a>			
15nF	2012	0.85±0.15	±10%		<a href="#">C2012X7T2W153K085AA</a>	<a href="#">C2012X7T2V153K085AA</a>	
			±20%		<a href="#">C2012X7T2W153M085AA</a>	<a href="#">C2012X7T2V153M085AA</a>	
15nF	3216	0.85±0.15	±10%	<a href="#">C3216X7T2J153K085AC</a>			
			±20%	<a href="#">C3216X7T2J153M085AC</a>			
22nF	2012	1.25±0.20	±10%		<a href="#">C2012X7T2W223K125AA</a>	<a href="#">C2012X7T2V223K125AA</a>	
			±20%		<a href="#">C2012X7T2W223M125AA</a>	<a href="#">C2012X7T2V223M125AA</a>	
22nF	3216	1.15±0.15	±10%	<a href="#">C3216X7T2J223K115AC</a>			
			±20%	<a href="#">C3216X7T2J223M115AC</a>			
33nF	2012	1.25±0.20	±10%		<a href="#">C2012X7T2W333K125AA</a>	<a href="#">C2012X7T2V333K125AA</a>	<a href="#">C2012X7T2E333K125AA</a>
			±20%		<a href="#">C2012X7T2W333M125AA</a>	<a href="#">C2012X7T2V333M125AA</a>	<a href="#">C2012X7T2E333M125AA</a>
33nF	3216	1.15±0.15	±10%	<a href="#">C3216X7T2J333K115AC</a>			
			±20%	<a href="#">C3216X7T2J333M115AC</a>			
47nF	2012	1.25±0.20	±10%		<a href="#">C2012X7T2W473K125AA</a>	<a href="#">C2012X7T2V473K125AA</a>	<a href="#">C2012X7T2E473K125AA</a>
			±20%		<a href="#">C2012X7T2W473M125AA</a>	<a href="#">C2012X7T2V473M125AA</a>	<a href="#">C2012X7T2E473M125AA</a>
47nF	3216	1.60±0.20	±10%	<a href="#">C3216X7T2J473K160AC</a>			
			±20%	<a href="#">C3216X7T2J473M160AC</a>			
68nF	2012	1.25±0.20	±10%				<a href="#">C2012X7T2E683K125AA</a>
			±20%				<a href="#">C2012X7T2E683M125AA</a>
68nF	3216	1.30±0.20	±10%		<a href="#">C3216X7T2W683K130AA</a>	<a href="#">C3216X7T2V683K130AA</a>	
			±20%		<a href="#">C3216X7T2W683M130AA</a>	<a href="#">C3216X7T2V683M130AA</a>	
100nF	2012	1.25±0.20	±10%				<a href="#">C2012X7T2E104K125AA</a>
			±20%				<a href="#">C2012X7T2E104M125AA</a>
100nF	3216	1.60±0.20	±10%		<a href="#">C3216X7T2W104K160AA</a>	<a href="#">C3216X7T2V104K160AA</a>	
			±20%		<a href="#">C3216X7T2W104M160AA</a>	<a href="#">C3216X7T2V104M160AA</a>	
100nF	3225	1.60±0.20	±10%	<a href="#">C3225X7T2J104K160AC</a>			
			±20%	<a href="#">C3225X7T2J104M160AC</a>			
150nF	3216	1.30±0.20	±10%				<a href="#">C3216X7T2E154K130AA</a>
			±20%				<a href="#">C3216X7T2E154M130AA</a>
150nF	3225	2.00±0.20	±10%	<a href="#">C3225X7T2J154K200AC</a>			
			±20%	<a href="#">C3225X7T2J154M200AC</a>			
150nF	4532	1.60±0.20	±10%	<a href="#">C4532X7T2J154K160KC</a>			
			±20%	<a href="#">C4532X7T2J154M160KC</a>			
220nF	3216	1.60±0.20	±10%				<a href="#">C3216X7T2E224K160AA</a>
			±20%				<a href="#">C3216X7T2E224M160AA</a>
220nF	3225	2.00±0.20	±10%		<a href="#">C3225X7T2W224K200AA</a>		
			±20%		<a href="#">C3225X7T2W224M200AA</a>		
300nF	4532	2.50±0.30	±10%	<a href="#">C4532X7T2J224K200KC</a>			
			±20%	<a href="#">C4532X7T2J224M200KC</a>			
300nF	4532	2.50±0.30	±10%	<a href="#">C4532X7T2J304K250KA</a>			
			±20%	<a href="#">C4532X7T2J304M250KA</a>			
330nF	3225	2.00±0.20	±10%				<a href="#">C3225X7T2E334K200AA</a>
			±20%				<a href="#">C3225X7T2E334M200AA</a>
330nF	4532	1.60±0.20	±10%		<a href="#">C4532X7T2W334K160KA</a>		
			±20%		<a href="#">C4532X7T2W334M160KA</a>		
470nF	5750	2.00±0.20	±10%	<a href="#">C5750X7T2J334K200KC</a>			
			±20%	<a href="#">C5750X7T2J334M200KC</a>			
470nF	4532	2.30±0.20	±10%		<a href="#">C4532X7T2W474K230KA</a>		
			±20%		<a href="#">C4532X7T2W474M230KA</a>		
470nF	5750	2.50±0.30	±10%	<a href="#">C5750X7T2J474K250KC</a>			
			±20%	<a href="#">C5750X7T2J474M250KC</a>			
680nF	4532	1.60±0.20	±10%				<a href="#">C4532X7T2E684K160KA</a>
			±20%				<a href="#">C4532X7T2E684M160KA</a>
680nF	5750	2.00±0.20	±10%		<a href="#">C5750X7T2W684K200KA</a>		
			±20%		<a href="#">C5750X7T2W684M200KA</a>		
1µF	4532	2.50±0.30	±10%				<a href="#">C4532X7T2E105K250KA</a>
			±20%				<a href="#">C4532X7T2E105M250KA</a>
1µF	5750	2.50±0.30	±10%		<a href="#">C5750X7T2W105K250KA</a>		
			±20%		<a href="#">C5750X7T2W105M250KA</a>		
1.5µF	5750	2.00±0.20	±10%				<a href="#">C5750X7T2E155K200KA</a>
			±20%				<a href="#">C5750X7T2E155M200KA</a>
2.2µF	5750	2.50±0.30	±10%				<a href="#">C5750X7T2E225K250KA</a>
			±20%				<a href="#">C5750X7T2E225M250KA</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.

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