

# MULTILAYER CERAMIC CHIP CAPACITORS

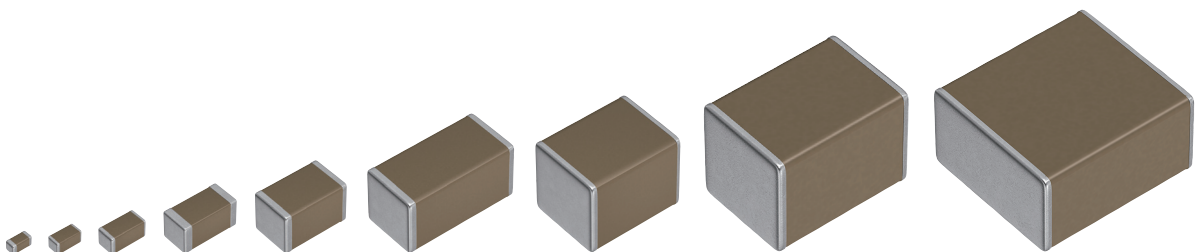
Commercial grade, general (Up to 75V)

## C series

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<b>C0402</b>	<b>[01005 inch]</b>
<b>C0603</b>	<b>[0201 inch]</b>
<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

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


When designing your equipment even for general-purpose applications, you are kindly requested to take into consideration securing protection circuit/device or providing backup circuits in your equipment.

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

Notice: Effective January 2013, TDK will use a new catalog number which adds product thickness and packaging specification detail. This new catalog number should be referenced on all catalog orders going forward, and is not applicable for OEM part number orders. Please be aware the last five digits of the catalog number will differ from the item description (internal control number) on the product label. Contact your local TDK Sales representative for more information.

(Example)

Catalog issued date	Catalog number	Item description (on delivery label)
Prior to January 2013	C1608C0G1E103J(080AA)	C1608C0G1E103JT000N
January 2013 and later	C1608C0G1E103J080AA	C1608C0G1E103JT000N

 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.

# C series

## General (Up to 75V)



Type: C0402 [01005 inch], C0603 [0201 inch], C1005 [0402 inch], C1608 [0603 inch], C2012 [0805 inch], C3216 [1206 inch], C3225 [1210 inch], C4532 [1812 inch], C5750 [2220 inch]

### SERIES OVERVIEW

General type C 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.

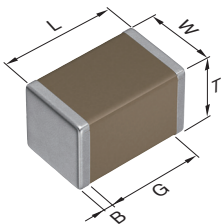
### FEATURES

- 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

### APPLICATION

- General electronic equipment
- Mobile devices
- Servers, PCs, tablets
- Power supply circuit

### SHAPE & DIMENSIONS



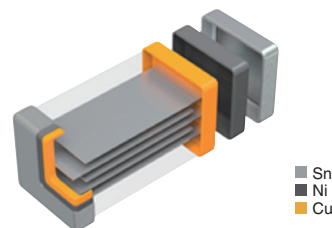
L	Body length
W	Body width
T	Body height
B	Terminal width
G	Terminal spacing

Dimensions in mm

Type	L	W	T	B	G
C0402	0.40 $\pm$ 0.02	0.20 $\pm$ 0.02	0.20 $\pm$ 0.02	0.07 min.	0.14 min.
C0603	0.60 $\pm$ 0.03	0.30 $\pm$ 0.03	0.30 $\pm$ 0.03	0.10 min.	0.20 min.
C1005	1.00 $\pm$ 0.05	0.50 $\pm$ 0.05	0.50 $\pm$ 0.05	0.10 min.	0.30 min.
C1608	1.60 $\pm$ 0.10	0.80 $\pm$ 0.10	0.80 $\pm$ 0.10	0.20 min.	0.30 min.
C2012	2.00 $\pm$ 0.20	1.25 $\pm$ 0.20	1.25 $\pm$ 0.20	0.20 min.	0.50 min.
C3216	3.20 $\pm$ 0.20	1.60 $\pm$ 0.20	1.60 $\pm$ 0.20	0.20 min.	1.00 min.
C3225	3.20 $\pm$ 0.40	2.50 $\pm$ 0.30	2.50 $\pm$ 0.30	0.20 min.	-
C4532	4.50 $\pm$ 0.40	3.20 $\pm$ 0.40	3.20 $\pm$ 0.40	0.20 min.	-
C5750	5.70 $\pm$ 0.40	5.00 $\pm$ 0.40	2.80 $\pm$ 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>C</b>	<b>3216</b>	<b>X5R</b>	<b>1A</b>	<b>107</b>	<b>M</b>	<b>160</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
0402	CC01005	0.40	0.20	0.07
0603	CC0201	0.60	0.30	0.10
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
COG	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)
0G	4V
0J	6.3V
1A	10V
1C	16V
1E	25V
1V	35V
1H	50V
1N	75V

### (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
B	±0.10pF
C	±0.25pF
D	±0.50pF
F	±1%
G	±2%
J	±5%
K	±10%
M	±20%

### (7)Thickness

Code	Thickness
020	0.20 mm
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

### (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	TDK internal code
T	Special temperature characteristic

## Capacitance range chart

## C0402 [01005 inch]

Capacitance		COG	X5R				X6S			X7R		
(pF)	Code	1C (16V)	1C (16V)	1A (10V)	OJ (6.3V)	OG (4V)	1A (10V)	OJ (6.3V)	OG (4V)	1A (10V)	OJ (6.3V)	OG (4V)
1	010	█										
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	█	█	█	█	█	█	█	█	█	█	█
1,500	152	█	█	█	█	█	█	█	█	█	█	█
2,200	222	█	█	█	█	█	█	█	█	█	█	█

Standard thickness  0.20 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 16 and after.

## Capacitance range chart

## C0603 [0201 inch]

Capacitance		COG		X5R				X6S				
(pF)	Code	1H (50V)	1E (25V)	1E (25V)	1C (16V)	1A (10V)	OJ (6.3V)	1E (25V)	1C (16V)	1A (10V)	OJ (6.3V)	OG (4V)
1	010											
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											
1,500	152											
2,200	222											
3,300	332											
4,700	472											
6,800	682											
10,000	103											
15,000	153											
22,000	223											
47,000	473											
100,000	104											
150,000	154											
220,000	224											
330,000	334											
470,000	474											

Capacitance		X7R				X7S		
(pF)	Code	1E (25V)	1C (16V)	1A (10V)	OJ (6.3V)	1A (10V)	OJ (6.3V)	OG (4V)
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							
22,000	223							
47,000	473							
100,000	104							
150,000	154							
220,000	224							

Standard thickness 0.30 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 16 and after.

## Capacitance range chart

## C1005 [0402 inch]

Capacitance		COG		X5R							X6S						
(pF)	Code	1H (50V)	1E (25V)	1H (50V)	1V (35V)	1E (25V)	1C (16V)	1A (10V)	0J (6.3V)	0G (4V)	1H (50V)	1V (35V)	1E (25V)	1C (16V)	1A (10V)	0J (6.3V)	0G (4V)
1	010	■															
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	■	■	■													
1,500	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																

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 16 and after.

## Capacitance range chart

## C1005 [0402 inch]

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

Standard thickness ■ 0.50 mm

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

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MULTILAYER CERAMIC CHIP CAPACITORS TDK

Capacitance range chart

C1608 [0603 inch]

Capacitance		COG				X5R						
(pF)	Code	1H (50V)	1V (35V)	1E (25V)	0G (4V)	1H (50V)	1V (35V)	1E (25V)	1C (16V)	1A (10V)	0J (6.3V)	0G (4V)
1	010	█										
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	█				█						
1,500	152	█				█						
2,200	222	█				█						
3,300	332	█				█						
4,700	472	█				█						
6,800	682	█				█						
10,000	103	█	█	█		█						
15,000	153	█	█	█		█						
18,000	183	█	█	█		█						
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	█				█	█	█	█	█		
6,800,000	685	█				█	█	█	█	█	█	
10,000,000	106	█				█	█	█	█	█	█	
15,000,000	156	█				█	█	█	█	█	█	█
22,000,000	226	█				█	█	█	█	█	█	█

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 16 and after.


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# MULTILAYER CERAMIC CHIP CAPACITORS


## Capacitance range chart


## C1608 [0603 inch]

Capacitance		X6S							X7R						X7S		
(pF)	Code	1H (50V)	1V (35V)	1E (25V)	1C (16V)	1A (10V)	OJ (6.3V)	OG (4V)	1H (50V)	1V (35V)	1E (25V)	1C (16V)	1A (10V)	OJ (6.3V)	1C (16V)	1A (10V)	OJ (6.3V)
1,000	102																
2,200	222																
4,700	472																
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																
6,800,000	685																
10,000,000	106																
22,000,000	226																

Standard thickness  0.80 mm

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

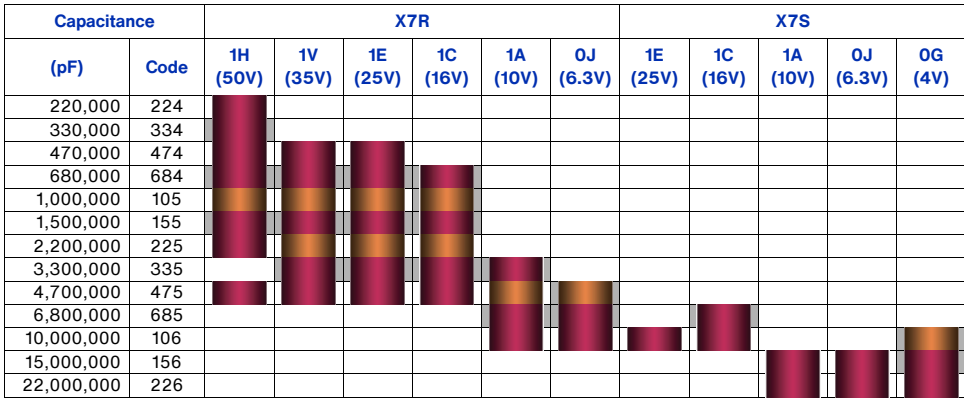
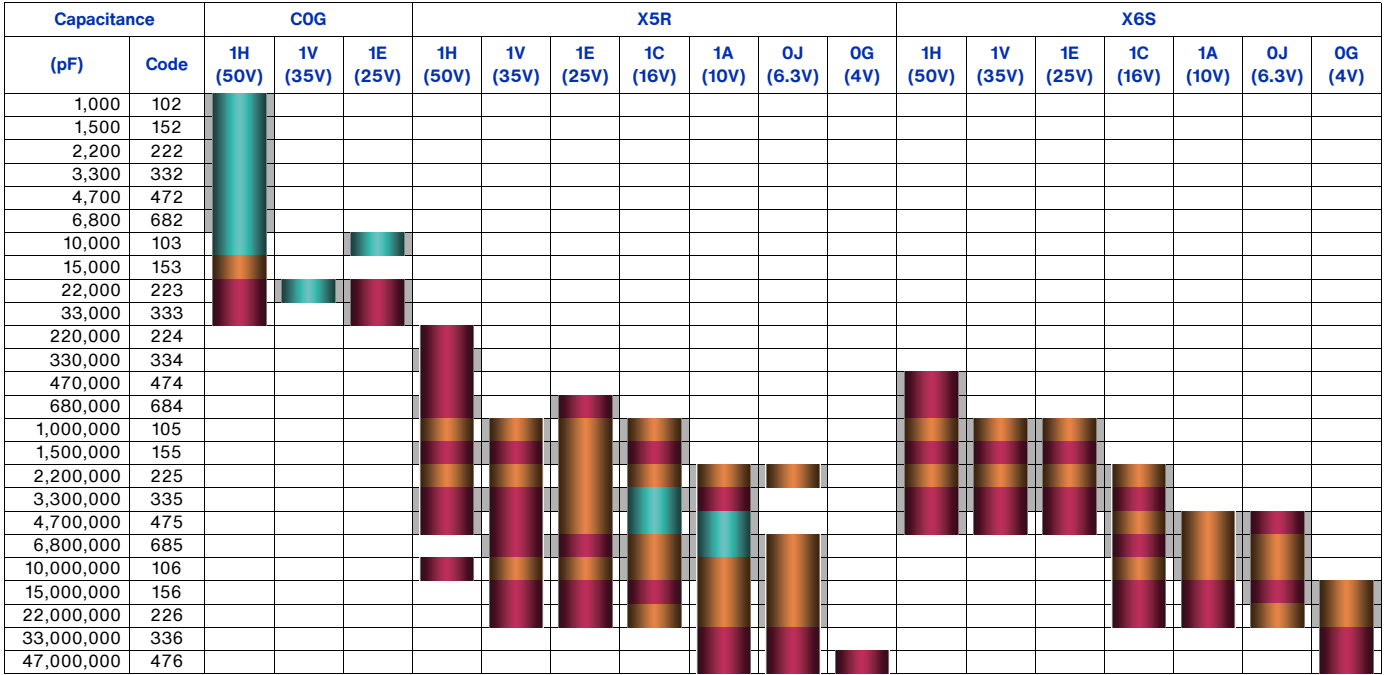
 Click the charts for details.

 For details such as the catalog numbers, please refer to the capacitance range table on page 16 and after.

MULTILAYER CERAMIC CHIP CAPACITORS 

Capacitance range chart

C2012 [0805 inch]



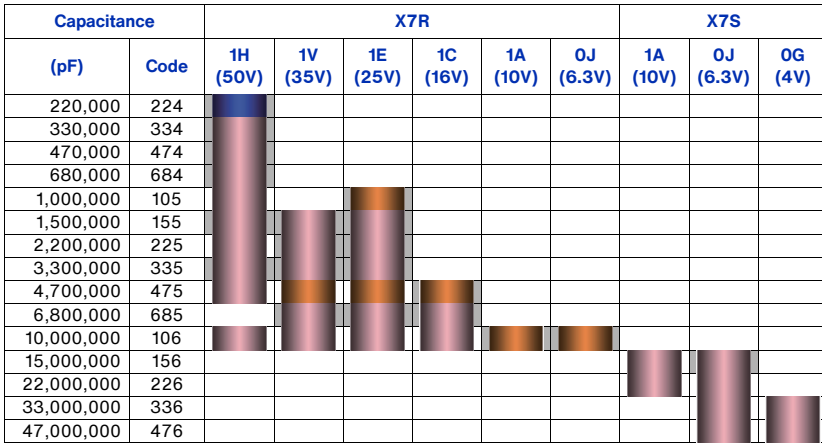
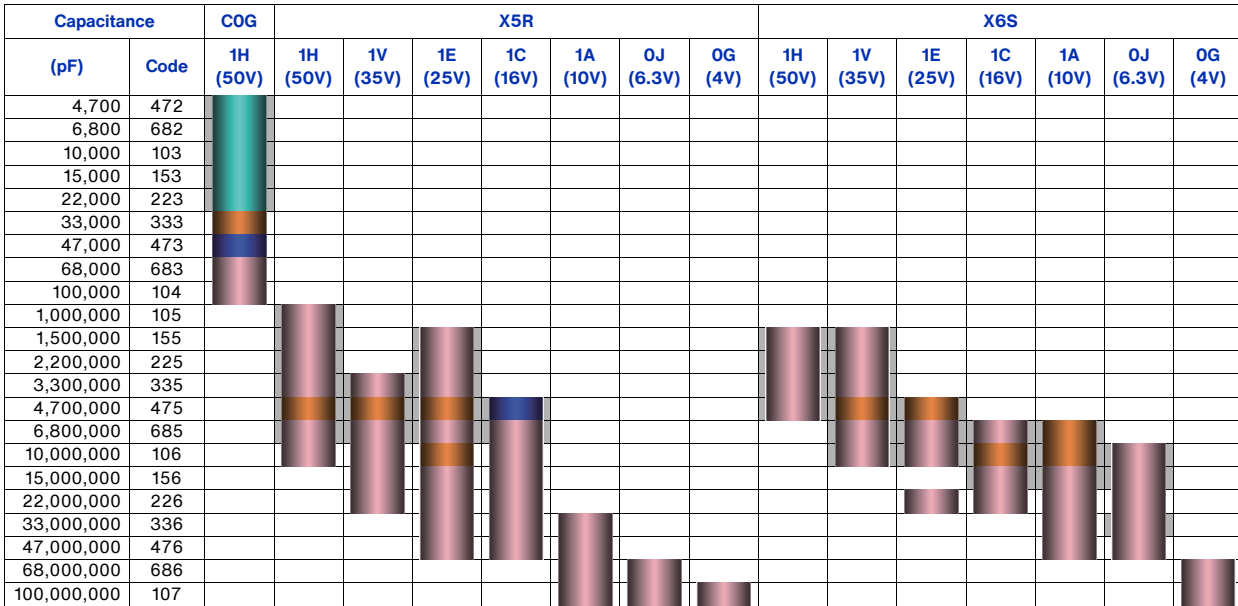
Standard thickness █ 0.60 mm █ 0.85 mm █ 1.25 mm  
 Background gray: These products are not recommended for new designs.  
 Click the charts for details.  
 For details such as the catalog numbers, please refer to the capacitance range table on page 16 and after.

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# MULTILAYER CERAMIC CHIP CAPACITORS TDK

## Capacitance range chart

## C3216 [1206 inch]



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 16 and after.

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MULTILAYER CERAMIC CHIP CAPACITORS 


Capacitance range chart


C3225 [1210 inch]


Capacitance		COG	X5R					X6S					
(pF)	Code	1H (50V)	1H (50V)	1E (25V)	1C (16V)	1A (10V)	0J (6.3V)	1H (50V)	1V (35V)	1E (25V)	1C (16V)	1A (10V)	0J (6.3V)
22,000	223	█											
33,000	333	█											
47,000	473	█											
68,000	683	█											
100,000	104	█											
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					█	█					█	

Capacitance		X7R					X7S			X7T	
(pF)	Code	1N (75V)	1H (50V)	1E (25V)	1C (16V)	1A (10V)	1H (50V)	1A (10V)	0J (6.3V)	1A (10V)	0J (6.3V)
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							█	█		
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 16 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 TDK

Capacitance range chart

C4532 [1812 inch]

Capacitance		C0G	X5R					X6S	X7R		
(pF)	Code	1H (50V)	1H (50V)	1E (25V)	1C (16V)	1A (10V)	0J (6.3V)	0J (6.3V)	1H (50V)	1E (25V)	1C (16V)
47,000	473	█									
68,000	683	█									
100,000	104	█									
150,000	154	█									
220,000	224	█									
1,000,000	105							█			
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					█	█				
68,000,000	686					█	█				
100,000,000	107					█	█				

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 16 and after.

# MULTILAYER CERAMIC CHIP CAPACITORS


## Capacitance range chart

## C5750 [2220 inch]

Capacitance		X5R					X7R			
(pF)	Code	1H (50V)	1E (25V)	1C (16V)	1A (10V)	0J (6.3V)	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									
33,000,000	336									
47,000,000	476									
68,000,000	686									
100,000,000	107									

Standard thickness  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 16 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 table

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

Capacitance	Dimensions	Thickness (mm)	Capacitance tolerance	Catalog number		
				Rated voltage Edc: 50V	Rated voltage Edc: 25V	Rated voltage Edc: 16V
1 pF	0402	0.20±0.02	±0.25pF			C0402C0G1C010C020BC
	0603	0.30±0.03	±0.25pF	C0603C0G1H010C030BA	C0603C0G1E010C030BA	
	1005	0.50±0.05	±0.10pF	C1005C0G1H010B050BA		
			±0.25pF	C1005C0G1H010C050BA		
1608	0.80±0.10	±0.25pF	C1608C0G1H010C080AA			
2 pF	0402	0.20±0.02	±0.25pF			C0402C0G1C020C020BC
	0603	0.30±0.03	±0.25pF	C0603C0G1H020C030BA	C0603C0G1E020C030BA	
	1005	0.50±0.05	±0.10pF	C1005C0G1H020B050BA		
			±0.25pF	C1005C0G1H020C050BA		
1608	0.80±0.10	±0.25pF	C1608C0G1H020C080AA			
3 pF	0402	0.20±0.02	±0.25pF			C0402C0G1C030C020BC
	0603	0.30±0.03	±0.25pF	C0603C0G1H030C030BA	C0603C0G1E030C030BA	
	1005	0.50±0.05	±0.10pF	C1005C0G1H030B050BA		
			±0.25pF	C1005C0G1H030C050BA		
1608	0.80±0.10	±0.25pF	C1608C0G1H030C080AA			
4 pF	0402	0.20±0.02	±0.25pF			C0402C0G1C040C020BC
	0603	0.30±0.03	±0.25pF	C0603C0G1H040C030BA	C0603C0G1E040C030BA	
	1005	0.50±0.05	±0.10pF	C1005C0G1H040B050BA		
			±0.25pF	C1005C0G1H040C050BA		
1608	0.80±0.10	±0.25pF	C1608C0G1H040C080AA			
5 pF	0402	0.20±0.02	±0.25pF			C0402C0G1C050C020BC
	0603	0.30±0.03	±0.25pF	C0603C0G1H050C030BA	C0603C0G1E050C030BA	
	1005	0.50±0.05	±0.10pF	C1005C0G1H050B050BA		
			±0.25pF	C1005C0G1H050C050BA		
1608	0.80±0.10	±0.25pF	C1608C0G1H050C080AA			
6 pF	0402	0.20±0.02	±0.50pF			C0402C0G1C060D020BC
	0603	0.30±0.03	±0.50pF	C0603C0G1H060D030BA	C0603C0G1E060D030BA	
	1005	0.50±0.05	±0.25pF	C1005C0G1H060C050BA		
			±0.50pF	C1005C0G1H060D050BA		
1608	0.80±0.10	±0.25pF	C1608C0G1H060C080AA			
7 pF	0402	0.20±0.02	±0.50pF			C0402C0G1C070D020BC
	0603	0.30±0.03	±0.50pF	C0603C0G1H070D030BA	C0603C0G1E070D030BA	
	1005	0.50±0.05	±0.25pF	C1005C0G1H070C050BA		
			±0.50pF	C1005C0G1H070D050BA		
1608	0.80±0.10	±0.25pF	C1608C0G1H070C080AA			
			±0.50pF	C1608C0G1H070D080AA		

■ 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±30 ppm/°C)

Capacitance	Dimensions	Thickness (mm)	Capacitance tolerance	Catalog number		
				Rated voltage Edc: 50V	Rated voltage Edc: 25V	Rated voltage Edc: 16V
8 pF	0402	0.20±0.02	±0.50pF			<a href="#">C0402C0G1C080D020BC</a>
	0603	0.30±0.03	±0.50pF	<a href="#">C0603C0G1H080D030BA</a>	<a href="#">C0603C0G1E080D030BA</a>	
	1005	0.50±0.05	±0.25pF	<a href="#">C1005C0G1H080C050BA</a>		
			±0.50pF	<a href="#">C1005C0G1H080D050BA</a>		
			±0.25pF	<a href="#">C1608C0G1H080C080AA</a>		
			±0.50pF	<a href="#">C1608C0G1H080D080AA</a>		
1608	0.80±0.10					
9 pF	0402	0.20±0.02	±0.50pF			<a href="#">C0402C0G1C090D020BC</a>
	0603	0.30±0.03	±0.50pF	<a href="#">C0603C0G1H090D030BA</a>	<a href="#">C0603C0G1E090D030BA</a>	
	1005	0.50±0.05	±0.25pF	<a href="#">C1005C0G1H090C050BA</a>		
			±0.50pF	<a href="#">C1005C0G1H090D050BA</a>		
			±0.25pF	<a href="#">C1608C0G1H090C080AA</a>		
			±0.50pF	<a href="#">C1608C0G1H090D080AA</a>		
1608	0.80±0.10					
10 pF	0402	0.20±0.02	±0.50pF			<a href="#">C0402C0G1C100D020BC</a>
	0603	0.30±0.03	±0.50pF	<a href="#">C0603C0G1H100D030BA</a>	<a href="#">C0603C0G1E100D030BA</a>	
	1005	0.50±0.05	±0.25pF	<a href="#">C1005C0G1H100C050BA</a>		
			±0.50pF	<a href="#">C1005C0G1H100D050BA</a>		
			±0.25pF	<a href="#">C1608C0G1H100C080AA</a>		
			±0.50pF	<a href="#">C1608C0G1H100D080AA</a>		
1608	0.80±0.10					
15 pF	0402	0.20±0.02	±10%			<a href="#">C0402C0G1C150K020BC</a>
			±5%			<a href="#">C0402C0G1C150J020BC</a>
	0603	0.30±0.03	±10%	<a href="#">C0603C0G1H150K030BA</a>	<a href="#">C0603C0G1E150K030BA</a>	
			±5%	<a href="#">C0603C0G1H150J030BA</a>	<a href="#">C0603C0G1E150J030BA</a>	
			±1%	<a href="#">C1005C0G1H150F050BA</a>		
			±2%	<a href="#">C1005C0G1H150G050BA</a>		
	1005	0.50±0.05	±5%	<a href="#">C1005C0G1H150J050BA</a>		
			±1%	<a href="#">C1608C0G1H150F080AA</a>		
			±2%	<a href="#">C1608C0G1H150G080AA</a>		
			±5%	<a href="#">C1608C0G1H150J080AA</a>		
	1608	0.80±0.10	±1%			
			±2%			
22 pF	0402	0.20±0.02	±10%			<a href="#">C0402C0G1C220K020BC</a>
			±5%			<a href="#">C0402C0G1C220J020BC</a>
	0603	0.30±0.03	±10%	<a href="#">C0603C0G1H220K030BA</a>	<a href="#">C0603C0G1E220K030BA</a>	
			±5%	<a href="#">C0603C0G1H220J030BA</a>	<a href="#">C0603C0G1E220J030BA</a>	
			±1%	<a href="#">C1005C0G1H220F050BA</a>		
			±2%	<a href="#">C1005C0G1H220G050BA</a>		
1005	0.50±0.05	±5%	<a href="#">C1005C0G1H220J050BA</a>			
		±1%	<a href="#">C1608C0G1H220F080AA</a>			
		±2%	<a href="#">C1608C0G1H220G080AA</a>			
		±5%	<a href="#">C1608C0G1H220J080AA</a>			
1608	0.80±0.10					

■ 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±30 ppm/°C)

Capacitance	Dimensions	Thickness (mm)	Capacitance tolerance	Catalog number		
				Rated voltage Edc: 50V	Rated voltage Edc: 25V	Rated voltage Edc: 16V
33 pF	0402	0.20±0.02	±10%			C0402C0G1C330K020BC
			±5%			C0402C0G1C330J020BC
	0603	0.30±0.03	±10%	C0603C0G1H330K030BA	C0603C0G1E330K030BA	
			±5%	C0603C0G1H330J030BA	C0603C0G1E330J030BA	
	1005	0.50±0.05	±1%	C1005C0G1H330F050BA		
			±2%	C1005C0G1H330G050BA		
			±5%	C1005C0G1H330J050BA		
			±1%	C1608C0G1H330F080AA		
	1608	0.80±0.10	±2%	C1608C0G1H330G080AA		
			±5%	C1608C0G1H330J080AA		
			±10%			C0402C0G1C470K020BC
	47 pF	0402	0.20±0.02	±5%		
±10%				C0603C0G1H470K030BA	C0603C0G1E470K030BA	
0603		0.30±0.03	±5%	C0603C0G1H470J030BA	C0603C0G1E470J030BA	
			±1%	C1005C0G1H470F050BA		
1005		0.50±0.05	±2%	C1005C0G1H470G050BA		
			±5%	C1005C0G1H470J050BA		
			±1%	C1608C0G1H470F080AA		
			±2%	C1608C0G1H470G080AA		
1608		0.80±0.10	±5%	C1608C0G1H470J080AA		
			±10%			C0402C0G1C680K020BC
			±5%			C0402C0G1C680J020BC
68 pF		0402	0.20±0.02	±10%	C0603C0G1H680K030BA	C0603C0G1E680K030BA
	±5%			C0603C0G1H680J030BA	C0603C0G1E680J030BA	
	0603	0.30±0.03	±1%	C1005C0G1H680F050BA		
			±2%	C1005C0G1H680G050BA		
	1005	0.50±0.05	±5%	C1005C0G1H680J050BA		
			±1%	C1608C0G1H680F080AA		
			±2%	C1608C0G1H680G080AA		
			±5%	C1608C0G1H680J080AA		
	1608	0.80±0.10	±10%			C0402C0G1C101K020BC
			±5%			C0402C0G1C101J020BC
			±10%	C0603C0G1H101K030BA	C0603C0G1E101K030BA	
	100 pF	0603	0.30±0.03	±5%	C0603C0G1H101J030BA	C0603C0G1E101J030BA
±1%				C1005C0G1H101F050BA		
1005		0.50±0.05	±10%	C1005C0G1H101K050BA		
			±2%	C1005C0G1H101G050BA		
			±5%	C1005C0G1H101J050BA		
			±1%	C1608C0G1H101F080AA		
1608		0.80±0.10	±10%	C1608C0G1H101K080AA		
			±2%	C1608C0G1H101G080AA		
			±5%	C1608C0G1H101J080AA		

■ 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±30 ppm/°C)

Capacitance	Dimensions	Thickness (mm)	Capacitance tolerance	Catalog number
				Rated voltage Edc: 50V
150 pF	1005	0.50±0.05	±1%	<a href="#">C1005C0G1H151F050BA</a>
			±10%	<a href="#">C1005C0G1H151K050BA</a>
			±2%	<a href="#">C1005C0G1H151G050BA</a>
			±5%	<a href="#">C1005C0G1H151J050BA</a>
			±1%	<a href="#">C1608C0G1H151F080AA</a>
	1608	0.80±0.10	±10%	<a href="#">C1608C0G1H151K080AA</a>
			±2%	<a href="#">C1608C0G1H151G080AA</a>
			±5%	<a href="#">C1608C0G1H151J080AA</a>
			±1%	<a href="#">C1005C0G1H221F050BA</a>
			±10%	<a href="#">C1005C0G1H221K050BA</a>
220 pF	1005	0.50±0.05	±2%	<a href="#">C1005C0G1H221G050BA</a>
			±5%	<a href="#">C1005C0G1H221J050BA</a>
			±1%	<a href="#">C1608C0G1H221F080AA</a>
			±10%	<a href="#">C1608C0G1H221K080AA</a>
			±2%	<a href="#">C1608C0G1H221G080AA</a>
	1608	0.80±0.10	±5%	<a href="#">C1608C0G1H221J080AA</a>
			±1%	<a href="#">C1005C0G1H331F050BA</a>
			±10%	<a href="#">C1005C0G1H331K050BA</a>
			±2%	<a href="#">C1005C0G1H331G050BA</a>
			±5%	<a href="#">C1005C0G1H331J050BA</a>
330 pF	1005	0.50±0.05	±1%	<a href="#">C1608C0G1H331F080AA</a>
			±10%	<a href="#">C1608C0G1H331K080AA</a>
			±2%	<a href="#">C1608C0G1H331G080AA</a>
			±5%	<a href="#">C1608C0G1H331J080AA</a>
			±1%	<a href="#">C1005C0G1H471F050BA</a>
	1608	0.80±0.10	±10%	<a href="#">C1005C0G1H471K050BA</a>
			±2%	<a href="#">C1005C0G1H471G050BA</a>
			±5%	<a href="#">C1005C0G1H471J050BA</a>
			±1%	<a href="#">C1608C0G1H471F080AA</a>
			±10%	<a href="#">C1608C0G1H471K080AA</a>
470 pF	1005	0.50±0.05	±2%	<a href="#">C1608C0G1H471G080AA</a>
			±5%	<a href="#">C1608C0G1H471J080AA</a>
			±1%	<a href="#">C1005C0G1H681F050BA</a>
			±10%	<a href="#">C1005C0G1H681K050BA</a>
			±2%	<a href="#">C1005C0G1H681G050BA</a>
	1608	0.80±0.10	±5%	<a href="#">C1005C0G1H681J050BA</a>
			±1%	<a href="#">C1608C0G1H681F080AA</a>
			±10%	<a href="#">C1608C0G1H681K080AA</a>
			±2%	<a href="#">C1608C0G1H681G080AA</a>
			±5%	<a href="#">C1608C0G1H681J080AA</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±30 ppm/°C)

Capacitance	Dimensions	Thickness (mm)	Capacitance tolerance	Catalog number	
				Rated voltage Edc: 50V	Rated voltage Edc: 25V
1 nF	1005	0.50±0.05	±1%	<a href="#">C1005C0G1H102F050BA</a>	
			±10%	<a href="#">C1005C0G1H102K050BA</a>	
			±2%	<a href="#">C1005C0G1H102G050BA</a>	
	1608	0.80±0.10	±5%	<a href="#">C1005C0G1H102J050BA</a>	<a href="#">C1005C0G1E102J050BA</a>
			±1%	<a href="#">C1608C0G1H102F080AA</a>	
			±10%	<a href="#">C1608C0G1H102K080AA</a>	
			±2%	<a href="#">C1608C0G1H102G080AA</a>	
			±5%	<a href="#">C1608C0G1H102J080AA</a>	
			±10%	<a href="#">C2012C0G1H102K060AA</a>	
1.5 nF	2012	0.60±0.15	±5%	<a href="#">C2012C0G1H102J060AA</a>	
	1608	0.80±0.10	±5%	<a href="#">C1608C0G1H152J080AA</a>	
			±10%	<a href="#">C2012C0G1H152K060AA</a>	
2.2 nF	1608	0.80±0.10	±10%	<a href="#">C1608C0G1H222K080AA</a>	
			±5%	<a href="#">C1608C0G1H222J080AA</a>	
	2012	0.60±0.15	±10%	<a href="#">C2012C0G1H222K060AA</a>	
3.3 nF	1608	0.80±0.10	±5%	<a href="#">C2012C0G1H222J060AA</a>	
			±5%	<a href="#">C2012C0G1H222J085AA</a>	
			±10%	<a href="#">C1608C0G1H332K080AA</a>	
	2012	0.60±0.15	±5%	<a href="#">C1608C0G1H332J080AA</a>	
			±10%	<a href="#">C2012C0G1H332K060AA</a>	
4.7 nF	1608	0.80±0.10	±5%	<a href="#">C2012C0G1H332J125AA</a>	
			±10%	<a href="#">C1608C0G1H472K080AA</a>	
			±5%	<a href="#">C1608C0G1H472J080AA</a>	<a href="#">C1608C0G1E472J080AA</a>
	2012	0.60±0.15	±10%	<a href="#">C2012C0G1H472K060AA</a>	
			±5%	<a href="#">C2012C0G1H472J060AA</a>	
3216	0.60±0.15	±10%	<a href="#">C3216C0G1H472K060AA</a>		
			±5%	<a href="#">C3216C0G1H472J060AA</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±30 ppm/°C)

Capacitance	Dimensions	Thickness (mm)	Capacitance tolerance	Catalog number			
				Rated voltage Edc: 50V	Rated voltage Edc: 35V	Rated voltage Edc: 25V	
6.8 nF	1608	0.80±0.10	±10%	<a href="#">C1608C0G1H682K080AA</a>			
			±5%	<a href="#">C1608C0G1H682J080AA</a>		<a href="#">C1608C0G1E682J080AA</a>	
	2012	0.60±0.15	±10%	<a href="#">C2012C0G1H682K060AA</a>			
			±5%	<a href="#">C2012C0G1H682J060AA</a>			
	3216	0.60±0.15	±10%	<a href="#">C3216C0G1H682K060AA</a>			
			±5%	<a href="#">C3216C0G1H682J060AA</a>			
10 nF	1608	0.80±0.10	±10%	<a href="#">C1608C0G1H103K080AA</a>	<a href="#">C1608C0G1V103K080AC</a>		
			±5%	<a href="#">C1608C0G1H103J080AA</a>	<a href="#">C1608C0G1V103J080AC</a>	<a href="#">C1608C0G1E103J080AA</a>	
	2012	0.60±0.15	±10%	<a href="#">C2012C0G1H103K060AA</a>			
			±5%	<a href="#">C2012C0G1H103J060AA</a>		<a href="#">C2012C0G1E103J060AA</a>	
	3216	0.60±0.15	±10%	<a href="#">C3216C0G1H103K060AA</a>			
			±5%	<a href="#">C3216C0G1H103J060AA</a>			
15 nF	1608	0.80±0.10	±10%		<a href="#">C1608C0G1V153K080AC</a>		
			±5%		<a href="#">C1608C0G1V153J080AC</a>		
	2012	0.85±0.15	±10%	<a href="#">C2012C0G1H153K085AA</a>			
			±5%	<a href="#">C2012C0G1H153J085AA</a>			
	3216	0.60±0.15	±10%	<a href="#">C3216C0G1H153K060AA</a>			
			±5%	<a href="#">C3216C0G1H153J060AA</a>			
18 nF	1608	0.80±0.10	±10%		<a href="#">C1608C0G1V183K080AC</a>		
			±5%		<a href="#">C1608C0G1V183J080AC</a>		
	2012	0.60±0.15	±10%		<a href="#">C2012C0G1V223K060AC</a>		
			±5%		<a href="#">C2012C0G1V223J060AC</a>		
		1.25±0.20	±10%	<a href="#">C2012C0G1H223K125AA</a>			
			±5%	<a href="#">C2012C0G1H223J125AA</a>		<a href="#">C2012C0G1E223J125AA</a>	
22 nF	3216	0.60±0.15	±10%	<a href="#">C3216C0G1H223K060AA</a>			
			±5%	<a href="#">C3216C0G1H223J060AA</a>			
	3225	1.25±0.20	±10%	<a href="#">C3225C0G1H223K125AA</a>			
			±5%	<a href="#">C3225C0G1H223J125AA</a>			
	2012	1.25±0.20	±10%	<a href="#">C2012C0G1H333K125AA</a>			
			±5%	<a href="#">C2012C0G1H333J125AA</a>		<a href="#">C2012C0G1E333J125AA</a>	
33 nF	3216	0.85±0.15	±10%	<a href="#">C3216C0G1H333K085AA</a>			
			±5%	<a href="#">C3216C0G1H333J085AA</a>			
	3225	1.60±0.20	±10%	<a href="#">C3225C0G1H333K160AA</a>			
			±5%	<a href="#">C3225C0G1H333J160AA</a>			
	3216	1.15±0.15	±10%	<a href="#">C3216C0G1H473K115AA</a>			
			±5%	<a href="#">C3216C0G1H473J115AA</a>			
47 nF	3225	2.00±0.20	±10%	<a href="#">C3225C0G1H473K200AA</a>			
			±5%	<a href="#">C3225C0G1H473J200AA</a>			
	4532	1.60±0.20	±10%	<a href="#">C4532C0G1H473K160KA</a>			
			±5%	<a href="#">C4532C0G1H473J160KA</a>			
		3216	1.60±0.20	±10%	<a href="#">C3216C0G1H683K160AA</a>		
				±5%	<a href="#">C3216C0G1H683J160AA</a>		
68 nF	3225	2.00±0.20	±10%	<a href="#">C3225C0G1H683K200AA</a>			
			±5%	<a href="#">C3225C0G1H683J200AA</a>			
	4532	1.60±0.20	±10%	<a href="#">C4532C0G1H683K160KA</a>			
			±5%	<a href="#">C4532C0G1H683J160KA</a>			
	3216	1.60±0.20	±10%	<a href="#">C3216C0G1H104K160AA</a>			
			±5%	<a href="#">C3216C0G1H104J160AA</a>			
100 nF	3225	2.50±0.30	±10%	<a href="#">C3225C0G1H104K250AA</a>			
			±5%	<a href="#">C3225C0G1H104J250AA</a>			
	4532	2.00±0.20	±10%	<a href="#">C4532C0G1H104K200KA</a>			
			±5%	<a href="#">C4532C0G1H104J200KA</a>			
	150 nF	4532	2.50±0.30	±10%	<a href="#">C4532C0G1H154K250KA</a>		
				±5%	<a href="#">C4532C0G1H154J250KA</a>		
220 nF	4532	3.20±0.30	±10%	<a href="#">C4532C0G1H224K320KA</a>			
			±5%	<a href="#">C4532C0G1H224J320KA</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: 25V	Rated voltage Edc: 16V
100 pF	0402	0.20±0.02	±10%			<a href="#">C0402X5R1C101K020BC</a>
			±20%			<a href="#">C0402X5R1C101M020BC</a>
	0603	0.30±0.03	±10%		<a href="#">C0603X5R1E101K030BA</a>	
			±20%		<a href="#">C0603X5R1E101M030BA</a>	
150 pF	0402	0.20±0.02	±10%			<a href="#">C0402X5R1C151K020BC</a>
			±20%			<a href="#">C0402X5R1C151M020BC</a>
	0603	0.30±0.03	±10%		<a href="#">C0603X5R1E151K030BA</a>	
			±20%		<a href="#">C0603X5R1E151M030BA</a>	
220 pF	0402	0.20±0.02	±10%			<a href="#">C0402X5R1C221K020BC</a>
			±20%			<a href="#">C0402X5R1C221M020BC</a>
	0603	0.30±0.03	±10%		<a href="#">C0603X5R1E221K030BA</a>	
			±20%		<a href="#">C0603X5R1E221M030BA</a>	
330 pF	0402	0.20±0.02	±10%			<a href="#">C0402X5R1C331K020BC</a>
			±20%			<a href="#">C0402X5R1C331M020BC</a>
	0603	0.30±0.03	±10%		<a href="#">C0603X5R1E331K030BA</a>	
			±20%		<a href="#">C0603X5R1E331M030BA</a>	
470 pF	0402	0.20±0.02	±10%			<a href="#">C0402X5R1C471K020BC</a>
			±20%			<a href="#">C0402X5R1C471M020BC</a>
	0603	0.30±0.03	±10%		<a href="#">C0603X5R1E471K030BA</a>	
			±20%		<a href="#">C0603X5R1E471M030BA</a>	
680 pF	0402	0.20±0.02	±10%			<a href="#">C0402X5R1C681K020BC</a>
			±20%			<a href="#">C0402X5R1C681M020BC</a>
	0603	0.30±0.03	±10%		<a href="#">C0603X5R1E681K030BA</a>	
			±20%		<a href="#">C0603X5R1E681M030BA</a>	
1 nF	0402	0.20±0.02	±10%			<a href="#">C0402X5R1C102K020BC</a>
			±20%			<a href="#">C0402X5R1C102M020BC</a>
	0603	0.30±0.03	±10%		<a href="#">C0603X5R1E102K030BA</a>	
			±20%		<a href="#">C0603X5R1E102M030BA</a>	
1.5 nF	0402	0.20±0.02	±10%			<a href="#">C0402X5R1C152K020BC</a>
			±20%			<a href="#">C0402X5R1C152M020BC</a>
	0603	0.30±0.03	±10%		<a href="#">C0603X5R1E152K030BA</a>	
			±20%		<a href="#">C0603X5R1E152M030BA</a>	
1.5 nF	0402	0.20±0.02	±10%			<a href="#">C0402X5R1C152K020BC</a>
			±20%			<a href="#">C0402X5R1C152M020BC</a>
	0603	0.30±0.03	±10%		<a href="#">C0603X5R1E152K030BA</a>	
			±20%		<a href="#">C0603X5R1E152M030BA</a>	

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

# MULTILAYER CERAMIC CHIP CAPACITORS TDK

## 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	Rated voltage Edc: 16V
2.2 nF	0603	0.30±0.03	±10%			<a href="#">C0603X5R1E222K030BA</a>	
			±20%			<a href="#">C0603X5R1E222M030BA</a>	
	1005	0.50±0.05	±10%	<a href="#">C1005X5R1H222K050BA</a>			
3.3 nF	0603	0.30±0.03	±10%			<a href="#">C0603X5R1E332K030BA</a>	
			±20%			<a href="#">C0603X5R1E332M030BA</a>	
	1005	0.50±0.05	±10%	<a href="#">C1005X5R1H332K050BA</a>			
4.7 nF	0603	0.30±0.03	±10%				<a href="#">C0603X5R1C472K030BA</a>
			±20%			<a href="#">C0603X5R1C472M030BA</a>	
	1005	0.50±0.05	±10%	<a href="#">C1005X5R1H472K050BA</a>			
6.8 nF	0603	0.30±0.03	±10%				<a href="#">C0603X5R1H682K050BA</a>
			±20%			<a href="#">C1005X5R1H682M050BA</a>	
	1005	0.50±0.05	±10%	<a href="#">C1005X5R1H682K050BA</a>			
10 nF	0603	0.30±0.03	±10%				<a href="#">C0603X5R1C103K030BA</a>
			±20%			<a href="#">C0603X5R1C103M030BA</a>	
	1005	0.50±0.05	±10%	<a href="#">C1005X5R1H103K050BB</a>		<a href="#">C1005X5R1E103K050BA</a>	
15 nF	0603	0.30±0.03	±10%				<a href="#">C0603X5R1E153K050BA</a>
			±20%			<a href="#">C1005X5R1E153M050BA</a>	
	1005	0.50±0.05	±10%	<a href="#">C1005X5R1H153K050BB</a>		<a href="#">C1005X5R1C153K050BA</a>	<a href="#">C1005X5R1C153M050BA</a>
22 nF	0603	0.30±0.03	±10%			<a href="#">C0603X5R1E223K030BB</a>	
			±20%			<a href="#">C0603X5R1E223M030BB</a>	
	1005	0.50±0.05	±10%	<a href="#">C1005X5R1H223K050BB</a>		<a href="#">C1005X5R1E223K050BA</a>	<a href="#">C1005X5R1C223K050BA</a>
33 nF	0603	0.30±0.03	±10%			<a href="#">C0603X5R1E223M050BA</a>	<a href="#">C1005X5R1C223M050BA</a>
			±20%				
	1005	0.50±0.05	±10%	<a href="#">C1005X5R1H223K050BB</a>		<a href="#">C1005X5R1E223M050BA</a>	<a href="#">C1005X5R1C223M050BA</a>
47 nF	0603	0.30±0.03	±10%			<a href="#">C0603X5R1E473K030BB</a>	
			±20%			<a href="#">C0603X5R1E473M030BB</a>	
	1005	0.50±0.05	±10%	<a href="#">C1005X5R1H473K050BB</a>		<a href="#">C1005X5R1E473K050BA</a>	<a href="#">C1005X5R1C473K050BA</a>
68 nF	0603	0.30±0.03	±10%			<a href="#">C0603X5R1E473M050BA</a>	<a href="#">C1005X5R1C473M050BA</a>
			±20%				
	1005	0.50±0.05	±10%	<a href="#">C1005X5R1H473M050BB</a>	<a href="#">C1005X5R1V683K050BB</a>	<a href="#">C1005X5R1E683K050BC</a>	<a href="#">C1005X5R1C683K050BA</a>
100 nF	0603	0.30±0.03	±10%			<a href="#">C0603X5R1E683M050BB</a>	<a href="#">C1005X5R1C683M050BA</a>
			±20%				
	1005	0.50±0.05	±10%	<a href="#">C1005X5R1H683K080AA</a>	<a href="#">C1005X5R1V104K050BB</a>	<a href="#">C1005X5R1E104K050BC</a>	<a href="#">C1005X5R1C104K050BA</a>
150 nF	0603	0.30±0.03	±10%			<a href="#">C0603X5R1E104M050BB</a>	<a href="#">C1005X5R1C104M050BA</a>
			±20%			<a href="#">C0603X5R1E104M030BC</a>	<a href="#">C0603X5R1C104M030BC</a>
	1005	0.50±0.05	±10%	<a href="#">C1005X5R1H104K080AA</a>	<a href="#">C1005X5R1V104M050BB</a>	<a href="#">C1005X5R1E104M050BC</a>	<a href="#">C1005X5R1C104M050BA</a>
220 nF	0603	0.30±0.03	±10%			<a href="#">C0603X5R1E154K030BC</a>	
			±20%			<a href="#">C0603X5R1E154M030BC</a>	
	1005	0.50±0.05	±10%	<a href="#">C1005X5R1H154K080AB</a>	<a href="#">C1608X5R1V154K080AB</a>	<a href="#">C1005X5R1E154K050BC</a>	<a href="#">C1005X5R1C154K050BB</a>
330 nF	0603	0.30±0.03	±10%			<a href="#">C0603X5R1E154M050BC</a>	<a href="#">C1005X5R1C154M050BB</a>
			±20%			<a href="#">C1005X5R1E154M050BC</a>	<a href="#">C1005X5R1C154M050BB</a>
	1005	0.50±0.05	±10%	<a href="#">C1608X5R1H154K080AB</a>	<a href="#">C1608X5R1V154K080AB</a>	<a href="#">C1608X5R1E154K080AA</a>	<a href="#">C1608X5R1C154K080AA</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: 50V	Rated voltage Edc: 35V	Rated voltage Edc: 25V	Rated voltage Edc: 16V
220 nF	603	0.30±0.03	±10%				<a href="#">C0603X5R1C224K030BC</a>
			±20%			<a href="#">C0603X5R1C224M030BC</a>	
	1005	0.50±0.05	±10%			<a href="#">C0603X5R1E224M030BC</a>	
			±20%			<a href="#">C1005X5R1E224K050BC</a>	<a href="#">C1005X5R1C224K050BB</a>
			±10%	<a href="#">C1608X5R1H224K080AB</a>	<a href="#">C1608X5R1V224K080AB</a>	<a href="#">C1608X5R1E224K080AA</a>	
			±20%	<a href="#">C1608X5R1H224M080AB</a>	<a href="#">C1608X5R1V224M080AB</a>	<a href="#">C1608X5R1E224M080AA</a>	
2012	1.25±0.20	±10%	<a href="#">C2012X5R1H224K125AA</a>				
		±20%	<a href="#">C2012X5R1H224M125AA</a>				
330 nF	1005	0.50±0.05	±10%		<a href="#">C1005X5R1V334K050BC</a>	<a href="#">C1005X5R1E334K050BB</a>	
			±20%		<a href="#">C1005X5R1V334M050BC</a>	<a href="#">C1005X5R1E334M050BB</a>	
	1608	0.80±0.10	±10%	<a href="#">C1608X5R1H334K080AB</a>	<a href="#">C1608X5R1V334K080AB</a>	<a href="#">C1608X5R1E334K080AC</a>	<a href="#">C1608X5R1C334K080AA</a>
			±20%	<a href="#">C1608X5R1H334M080AB</a>	<a href="#">C1608X5R1V334M080AB</a>	<a href="#">C1608X5R1E334M080AC</a>	<a href="#">C1608X5R1C334M080AA</a>
2012	1.25±0.20	±10%	<a href="#">C2012X5R1H334K125AA</a>				
		±20%	<a href="#">C2012X5R1H334M125AA</a>				
470 nF	1005	0.50±0.05	±10%		<a href="#">C1005X5R1V474K050BC</a>	<a href="#">C1005X5R1E474K050BB</a>	
			±20%		<a href="#">C1005X5R1V474M050BC</a>	<a href="#">C1005X5R1E474M050BB</a>	
	1608	0.80±0.10	±10%	<a href="#">C1608X5R1H474K080AB</a>	<a href="#">C1608X5R1V474K080AB</a>	<a href="#">C1608X5R1E474K080AC</a>	<a href="#">C1608X5R1C474K080AA</a>
			±20%	<a href="#">C1608X5R1H474M080AB</a>	<a href="#">C1608X5R1V474M080AB</a>	<a href="#">C1608X5R1E474M080AC</a>	<a href="#">C1608X5R1C474M080AA</a>
2012	1.25±0.20	±10%	<a href="#">C2012X5R1H474K125AB</a>				
		±20%	<a href="#">C2012X5R1H474M125AB</a>				
680 nF	1005	0.50±0.05	±10%		<a href="#">C1005X5R1V684K050BC</a>	<a href="#">C1005X5R1E684K050BC</a>	<a href="#">C1005X5R1C684K050BC</a>
			±20%		<a href="#">C1005X5R1V684M050BC</a>	<a href="#">C1005X5R1E684M050BC</a>	<a href="#">C1005X5R1C684M050BC</a>
	1608	0.80±0.10	±10%	<a href="#">C1608X5R1H684K080AB</a>	<a href="#">C1608X5R1V684K080AB</a>	<a href="#">C1608X5R1E684K080AC</a>	<a href="#">C1608X5R1C684K080AA</a>
			±20%	<a href="#">C1608X5R1H684M080AB</a>	<a href="#">C1608X5R1V684M080AB</a>	<a href="#">C1608X5R1E684M080AC</a>	<a href="#">C1608X5R1C684M080AA</a>
2012	1.25±0.20	±10%	<a href="#">C2012X5R1H684K125AB</a>		<a href="#">C2012X5R1E684K125AA</a>		
		±20%	<a href="#">C2012X5R1H684M125AB</a>		<a href="#">C2012X5R1E684M125AA</a>		
1 µF	1005	0.50±0.05	±10%		<a href="#">C1005X5R1V105K050BC</a>	<a href="#">C1005X5R1E105K050BC</a>	
			±20%		<a href="#">C1005X5R1V105M050BC</a>	<a href="#">C1005X5R1E105M050BC</a>	
	1608	0.80±0.10	±10%	<a href="#">C1608X5R1H105K080AB</a>	<a href="#">C1608X5R1V105K080AB</a>	<a href="#">C1608X5R1E105K080AC</a>	<a href="#">C1608X5R1C105K080AA</a>
			±20%	<a href="#">C1608X5R1H105M080AB</a>	<a href="#">C1608X5R1V105M080AB</a>	<a href="#">C1608X5R1E105M080AC</a>	<a href="#">C1608X5R1C105M080AA</a>
	2012	0.85±0.15	±10%	<a href="#">C2012X5R1H105K085AB</a>	<a href="#">C2012X5R1V105K085AB</a>	<a href="#">C2012X5R1E105K085AC</a>	<a href="#">C2012X5R1C105K085AA</a>
			±20%	<a href="#">C2012X5R1H105M085AB</a>	<a href="#">C2012X5R1V105M085AB</a>	<a href="#">C2012X5R1E105M085AC</a>	<a href="#">C2012X5R1C105M085AA</a>
3216	1.60±0.20	±10%	<a href="#">C3216X5R1H105K160AA</a>		<a href="#">C2012X5R1E105K125AA</a>		
		±20%	<a href="#">C3216X5R1H105M160AA</a>		<a href="#">C2012X5R1E105M125AA</a>		
1.5 µF	1005	0.50±0.05	±10%				<a href="#">C1005X5R1C155K050BC</a>
			±20%				<a href="#">C1005X5R1C155M050BC</a>
	1608	0.80±0.10	±10%		<a href="#">C1608X5R1V155K080AC</a>	<a href="#">C1608X5R1E155K080AC</a>	<a href="#">C1608X5R1C155K080AB</a>
			±20%		<a href="#">C1608X5R1V155M080AC</a>	<a href="#">C1608X5R1E155M080AC</a>	<a href="#">C1608X5R1C155M080AB</a>
	2012	0.85±0.15	±10%			<a href="#">C2012X5R1E155K085AC</a>	
			±20%			<a href="#">C2012X5R1E155M085AC</a>	
3216	1.60±0.20	±10%	<a href="#">C3216X5R1H155K125AB</a>	<a href="#">C2012X5R1V155K125AB</a>	<a href="#">C2012X5R1E155K125AA</a>	<a href="#">C2012X5R1C155K125AA</a>	
		±20%	<a href="#">C3216X5R1H155M125AB</a>	<a href="#">C2012X5R1V155M125AB</a>	<a href="#">C2012X5R1E155M125AA</a>	<a href="#">C2012X5R1C155M125AA</a>	
2.2 µF	1005	0.50±0.05	±10%				<a href="#">C1005X5R1C225K050BC</a>
			±20%				<a href="#">C1005X5R1C225M050BC</a>
	1608	0.80±0.10	±10%		<a href="#">C1608X5R1V225K080AC</a>	<a href="#">C1608X5R1E225K080AC</a>	<a href="#">C1608X5R1C225K080AB</a>
			±20%		<a href="#">C1608X5R1V225M080AC</a>	<a href="#">C1608X5R1E225M080AC</a>	<a href="#">C1608X5R1C225M080AB</a>
	2012	0.85±0.15	±10%	<a href="#">C2012X5R1H225K085AB</a>	<a href="#">C2012X5R1V225K085AB</a>	<a href="#">C2012X5R1E225K085AC</a>	<a href="#">C2012X5R1C225K085AC</a>
			±20%	<a href="#">C2012X5R1H225M085AB</a>	<a href="#">C2012X5R1V225M085AB</a>	<a href="#">C2012X5R1E225M085AC</a>	<a href="#">C2012X5R1C225M085AC</a>
3216	1.60±0.20	±10%	<a href="#">C3216X5R1H225K125AB</a>	<a href="#">C2012X5R1V225K125AB</a>	<a href="#">C2012X5R1E225K125AC</a>	<a href="#">C2012X5R1C225K125AA</a>	
		±20%	<a href="#">C3216X5R1H225M125AB</a>	<a href="#">C2012X5R1V225M125AB</a>	<a href="#">C2012X5R1E225M125AC</a>	<a href="#">C2012X5R1C225M125AA</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	Rated voltage Edc: 16V
2.2 µF	3216	1.60±0.20	±10%	<a href="#">C3216X5R1H225K160AB</a>		<a href="#">C3216X5R1E225K160AA</a>	
			±20%	<a href="#">C3216X5R1H225M160AB</a>		<a href="#">C3216X5R1E225M160AA</a>	
	3225	2.50±0.30	±10%	<a href="#">C3225X5R1H225K250AB</a>			
			±20%	<a href="#">C3225X5R1H225M250AB</a>			
	1608	0.80±0.10	±10%			<a href="#">C1608X5R1E335K080AC</a>	<a href="#">C1608X5R1C335K080AC</a>
			±20%			<a href="#">C1608X5R1E335M080AC</a>	<a href="#">C1608X5R1C335M080AC</a>
0.80±0.20	±10%		<a href="#">C1608X5R1V335K080AC</a>				
	±20%		<a href="#">C1608X5R1V335M080AC</a>				
3.3 µF	2012	0.60±0.15	±10%				<a href="#">C2012X5R1C335K060AC</a>
			±20%				<a href="#">C2012X5R1C335M060AC</a>
			±10%			<a href="#">C2012X5R1E335K085AC</a>	<a href="#">C2012X5R1C335K085AB</a>
			±20%			<a href="#">C2012X5R1E335M085AC</a>	<a href="#">C2012X5R1C335M085AB</a>
	1.25±0.20	±10%	<a href="#">C2012X5R1H335K125AB</a>	<a href="#">C2012X5R1V335K125AC</a>	<a href="#">C2012X5R1E335K125AB</a>	<a href="#">C2012X5R1C335K125AC</a>	<a href="#">C2012X5R1C335K125AC</a>
		±20%	<a href="#">C2012X5R1H335M125AB</a>	<a href="#">C2012X5R1V335M125AC</a>	<a href="#">C2012X5R1E335M125AB</a>	<a href="#">C2012X5R1C335M125AC</a>	<a href="#">C2012X5R1C335M125AC</a>
	3216	1.60±0.20	±10%	<a href="#">C3216X5R1H335K160AB</a>	<a href="#">C3216X5R1V335K160AB</a>	<a href="#">C3216X5R1E335K160AA</a>	
			±20%	<a href="#">C3216X5R1H335M160AB</a>	<a href="#">C3216X5R1V335M160AB</a>	<a href="#">C3216X5R1E335M160AA</a>	
	3225	2.50±0.30	±10%	<a href="#">C3225X5R1H335K250AB</a>			
			±20%	<a href="#">C3225X5R1H335M250AB</a>			
	1608	0.80±0.10	±10%			<a href="#">C1608X5R1E475K080AC</a>	<a href="#">C1608X5R1C475K080AC</a>
			±20%			<a href="#">C1608X5R1E475M080AC</a>	<a href="#">C1608X5R1C475M080AC</a>
0.80±0.20	±10%		<a href="#">C1608X5R1V475K080AC</a>				
	±20%		<a href="#">C1608X5R1V475M080AC</a>				
0.60±0.15	±10%					<a href="#">C2012X5R1C475K060AC</a>	
	±20%					<a href="#">C2012X5R1C475M060AC</a>	
4.7 µF	2012	0.85±0.15	±10%			<a href="#">C2012X5R1E475K085AC</a>	<a href="#">C2012X5R1C475K085AB</a>
			±20%			<a href="#">C2012X5R1E475M085AC</a>	<a href="#">C2012X5R1C475M085AB</a>
			±10%	<a href="#">C2012X5R1H475K125AB</a>	<a href="#">C2012X5R1V475K125AC</a>	<a href="#">C2012X5R1E475K125AB</a>	<a href="#">C2012X5R1C475K125AC</a>
			±20%	<a href="#">C2012X5R1H475M125AB</a>	<a href="#">C2012X5R1V475M125AC</a>	<a href="#">C2012X5R1E475M125AB</a>	<a href="#">C2012X5R1C475M125AC</a>
	1.25±0.20	±10%	<a href="#">C3216X5R1H475K085AB</a>	<a href="#">C3216X5R1V475K085AB</a>	<a href="#">C3216X5R1E475K085AB</a>		
		±20%	<a href="#">C3216X5R1H475M085AB</a>	<a href="#">C3216X5R1V475M085AB</a>	<a href="#">C3216X5R1E475M085AB</a>		
	3216	1.15±0.15	±10%			<a href="#">C3216X5R1E475K115AB</a>	<a href="#">C3216X5R1C475K115AA</a>
			±20%			<a href="#">C3216X5R1E475M115AB</a>	<a href="#">C3216X5R1C475M115AA</a>
	1.60±0.20	±10%	<a href="#">C3216X5R1H475K160AB</a>	<a href="#">C3216X5R1V475K160AB</a>	<a href="#">C3216X5R1E475K160AA</a>		
		±20%	<a href="#">C3216X5R1H475M160AB</a>	<a href="#">C3216X5R1V475M160AB</a>	<a href="#">C3216X5R1E475M160AA</a>		
	3225	2.50±0.30	±10%	<a href="#">C3225X5R1H475K250AB</a>			
			±20%	<a href="#">C3225X5R1H475M250AB</a>			
1608	0.80±0.20	±10%			<a href="#">C1608X5R1E685K080AC</a>	<a href="#">C1608X5R1C685K080AB</a>	
		±20%			<a href="#">C1608X5R1E685M080AC</a>	<a href="#">C1608X5R1C685M080AB</a>	
0.85±0.15	±10%					<a href="#">C2012X5R1C685K085AC</a>	
	±20%					<a href="#">C2012X5R1C685M085AC</a>	
2012	1.25±0.20	±10%		<a href="#">C2012X5R1V685K125AC</a>	<a href="#">C2012X5R1E685K125AC</a>		
		±20%		<a href="#">C2012X5R1V685M125AC</a>	<a href="#">C2012X5R1E685M125AC</a>		
3216	1.60±0.20	±10%	<a href="#">C3216X5R1H685K160AB</a>	<a href="#">C3216X5R1V685K160AB</a>	<a href="#">C3216X5R1E685K160AB</a>	<a href="#">C3216X5R1C685K160AA</a>	
		±20%	<a href="#">C3216X5R1H685M160AB</a>	<a href="#">C3216X5R1V685M160AB</a>	<a href="#">C3216X5R1E685M160AB</a>	<a href="#">C3216X5R1C685M160AA</a>	
3225	2.00±0.20	±10%				<a href="#">C3225X5R1C685K200AA</a>	
		±20%				<a href="#">C3225X5R1C685M200AA</a>	
2.50±0.30	±10%	<a href="#">C3225X5R1H685K250AB</a>					
	±20%	<a href="#">C3225X5R1H685M250AB</a>					
4532	2.50±0.30	±10%	<a href="#">C4532X5R1H685K250KA</a>				
		±20%	<a href="#">C4532X5R1H685M250KA</a>				
1608	0.80±0.20	±20%			<a href="#">C1608X5R1E106M080AC</a>	<a href="#">C1608X5R1C106M080AB</a>	
		±10%			<a href="#">C2012X5R1V106K085AC</a>	<a href="#">C2012X5R1C106K085AC</a>	
0.85±0.15	±20%			<a href="#">C2012X5R1V106M085AC</a>	<a href="#">C2012X5R1E106M085AC</a>	<a href="#">C2012X5R1C106M085AC</a>	
	±10%			<a href="#">C2012X5R1V106K125AC</a>	<a href="#">C2012X5R1E106K125AB</a>		
1.25±0.20	±20%			<a href="#">C2012X5R1V106M125AC</a>	<a href="#">C2012X5R1E106M125AB</a>		
	±10%	<a href="#">C2012X5R1H106K125AC</a>					
1.25+0.25,-0.15	±10%						
	±20%						
0.85±0.15	±10%				<a href="#">C3216X5R1E106K085AC</a>		
	±20%				<a href="#">C3216X5R1E106M085AC</a>		
3216	1.60±0.20	±10%	<a href="#">C3216X5R1H106K160AB</a>	<a href="#">C3216X5R1V106K160AB</a>	<a href="#">C3216X5R1E106K160AB</a>	<a href="#">C3216X5R1C106K160AA</a>	
		±20%	<a href="#">C3216X5R1H106M160AB</a>	<a href="#">C3216X5R1V106M160AB</a>	<a href="#">C3216X5R1E106M160AB</a>	<a href="#">C3216X5R1C106M160AA</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 TDK

## 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	Rated voltage Edc: 16V
10 µF	3225	2.00±0.20	±10%				C3225X5R1C106K200AA
			±20%				C3225X5R1C106M200AA
	2.50±0.30	±10%	<a href="#">C3225X5R1H106K250AB</a>		<a href="#">C3225X5R1E106K250AA</a>		
		±20%	<a href="#">C3225X5R1H106M250AB</a>		<a href="#">C3225X5R1E106M250AA</a>		
	4532	2.50±0.30	±10%			<a href="#">C4532X5R1E106K250KA</a>	
			±20%			<a href="#">C4532X5R1E106M250KA</a>	
5750	2.30±0.20	±10%	<a href="#">C5750X5R1H106K230KA</a>				
		±20%	<a href="#">C5750X5R1H106M230KA</a>				
15 µF	2012	1.25±0.20	±20%		<a href="#">C2012X5R1V156M125AC</a>	<a href="#">C2012X5R1E156M125AC</a>	<a href="#">C2012X5R1C156M125AC</a>
	3216	1.60±0.20	±20%		<a href="#">C3216X5R1V156M160AC</a>	<a href="#">C3216X5R1E156M160AB</a>	<a href="#">C3216X5R1C156M160AB</a>
	3225	2.50±0.30	±20%				<a href="#">C3225X5R1C156M250AA</a>
	4532	2.50±0.30	±20%			<a href="#">C4532X5R1E156M250KA</a>	
			±20%			<a href="#">C4532X5R1E156M280KA</a>	
	2012	0.85±0.15	±20%			<a href="#">C2012X5R1C226M085AC</a>	
	1.25±0.20	±10%			<a href="#">C2012X5R1C226K125AC</a>		
		±20%		<a href="#">C2012X5R1V226M125AC</a>	<a href="#">C2012X5R1E226M125AC</a>	<a href="#">C2012X5R1C226M125AC</a>	
	3216	1.60±0.20	±20%	<a href="#">C3216X5R1V226M160AC</a>	<a href="#">C3216X5R1E226M160AB</a>	<a href="#">C3216X5R1C226M160AB</a>	
22 µF	3225	2.50±0.30	±10%			<a href="#">C3225X5R1C226K250AA</a>	
			±20%			<a href="#">C3225X5R1C226M250AA</a>	
	4532	2.00±0.20	±20%			<a href="#">C4532X5R1C226M200KA</a>	
			±20%			<a href="#">C4532X5R1C226M230KA</a>	
	5750	2.30±0.20	±20%		<a href="#">C4532X5R1E226M250KA</a>		
			±20%		<a href="#">C5750X5R1E226M250KA</a>		
3216	1.60±0.20	±20%		<a href="#">C3216X5R1E336M160AC</a>	<a href="#">C3216X5R1C336M160AB</a>		
33 µF	4532	2.50±0.30	±20%			<a href="#">C4532X5R1C336M250KA</a>	
			±20%			<a href="#">C5750X5R1C336M200KA</a>	
	5750	2.00±0.20	±20%			<a href="#">C5750X5R1C476M160AB</a>	
47 µF	3216	1.60±0.20	±20%		<a href="#">C3216X5R1E476M160AC</a>	<a href="#">C3216X5R1C476M160AB</a>	
	5750	2.30±0.20	±20%			<a href="#">C5750X5R1C476M230KA</a>	

Capacitance	Dimensions	Thickness (mm)	Capacitance tolerance	Catalog number		
				Rated voltage Edc: 10V	Rated voltage Edc: 6.3V	Rated voltage Edc: 4V
1 nF	0402	0.20±0.02	±10%	<a href="#">C0402X5R1A102K020BC</a>	<a href="#">C0402X5R0J102K020BC</a>	<a href="#">C0402X5R0G102K020BC</a>
			±20%	<a href="#">C0402X5R1A102M020BC</a>	<a href="#">C0402X5R0J102M020BC</a>	<a href="#">C0402X5R0G102M020BC</a>
1.5 nF	0402	0.20±0.02	±10%	<a href="#">C0402X5R1A152K020BC</a>	<a href="#">C0402X5R0J152K020BC</a>	<a href="#">C0402X5R0G152K020BC</a>
			±20%	<a href="#">C0402X5R1A152M020BC</a>	<a href="#">C0402X5R0J152M020BC</a>	<a href="#">C0402X5R0G152M020BC</a>
2.2 nF	0402	0.20±0.02	±10%	<a href="#">C0402X5R1A222K020BC</a>	<a href="#">C0402X5R0J222K020BC</a>	<a href="#">C0402X5R0G222K020BC</a>
			±20%	<a href="#">C0402X5R1A222M020BC</a>	<a href="#">C0402X5R0J222M020BC</a>	<a href="#">C0402X5R0G222M020BC</a>
6.8 nF	0603	0.30±0.03	±10%	<a href="#">C0603X5R1A682K030BA</a>		
			±20%	<a href="#">C0603X5R1A682M030BA</a>		
10 nF	0603	0.30±0.03	±10%	<a href="#">C0603X5R1A103K030BA</a>		
			±20%	<a href="#">C0603X5R1A103M030BA</a>		
15 nF	0603	0.30±0.03	±10%	<a href="#">C0603X5R1A153K030BC</a>	<a href="#">C0603X5R0J153K030BA</a>	
			±20%	<a href="#">C0603X5R1A153M030BC</a>	<a href="#">C0603X5R0J153M030BA</a>	

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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: 10V	Rated voltage Edc: 6.3V	Rated voltage Edc: 4V
47 nF	1005	0.50±0.05	±10%	<a href="#">C1005X5R1A473K050BA</a>		
			±20%	<a href="#">C1005X5R1A473M050BA</a>		
68 nF	1005	0.50±0.05	±10%	<a href="#">C1005X5R1A683K050BA</a>		
			±20%	<a href="#">C1005X5R1A683M050BA</a>		
100 nF	0603	0.30±0.03	±10%	<a href="#">C0603X5R1A104K030BC</a>		
			±20%	<a href="#">C0603X5R1A104M030BC</a>		
	1005	0.50±0.05	±10%	<a href="#">C1005X5R1A104K050BA</a>	<a href="#">C1005X5R0J104K050BA</a>	
			±20%	<a href="#">C1005X5R1A104M050BA</a>		
150 nF	0603	0.30±0.03	±10%	<a href="#">C0603X5R1A154K030BB</a>	<a href="#">C0603X5R0J154K030BB</a>	
			±20%	<a href="#">C0603X5R1A154M030BB</a>	<a href="#">C0603X5R0J154M030BB</a>	
220 nF	0603	0.30±0.03	±10%	<a href="#">C0603X5R1A224K030BB</a>	<a href="#">C0603X5R0J224K030BB</a>	
			±20%	<a href="#">C0603X5R1A224M030BB</a>	<a href="#">C0603X5R0J224M030BB</a>	
330 nF	0603	0.30±0.03	±20%		<a href="#">C0603X5R0J334M030BC</a>	
		0.30±0.05	±10%	<a href="#">C0603X5R1A334K030BC</a>		
	0603	0.30±0.03	±20%	<a href="#">C0603X5R1A334M030BC</a>		
			±10%		<a href="#">C0603X5R0J474M030BC</a>	
470 nF	1608	0.80+0.15,-0.10	±10%	<a href="#">C1608X5R1A474K080AA</a>		
			±20%	<a href="#">C0603X5R1A474M030BC</a>		
680 nF	1005	0.50±0.05	±10%	<a href="#">C1005X5R1A684K050BB</a>	<a href="#">C1005X5R0J684K050BB</a>	
			±20%	<a href="#">C1005X5R1A684M050BB</a>	<a href="#">C1005X5R0J684M050BB</a>	
	1608	0.80+0.15,-0.10	±10%	<a href="#">C1608X5R1A684K080AC</a>		
			±20%	<a href="#">C1608X5R1A684M080AC</a>		
1 µF	1608	0.80+0.15,-0.10	±10%	<a href="#">C1608X5R1A105K080AC</a>		
1.5 µF	1005	0.50±0.05	±10%	<a href="#">C1005X5R1A155K050BC</a>	<a href="#">C1005X5R0J155K050BB</a>	
			±20%	<a href="#">C1005X5R1A155M050BC</a>	<a href="#">C1005X5R0J155M050BB</a>	
2.2 µF	1005	0.50±0.05	±10%	<a href="#">C1005X5R1A225K050BC</a>	<a href="#">C1005X5R0J225K050BC</a>	<a href="#">C1005X5R0G225K050BB</a>
			±20%	<a href="#">C1005X5R1A225M050BC</a>	<a href="#">C1005X5R0J225M050BC</a>	<a href="#">C1005X5R0G225M050BB</a>
	2012	0.85±0.15	±10%	<a href="#">C2012X5R1A225K085AA</a>	<a href="#">C2012X5R0J225K085AA</a>	
			±20%	<a href="#">C2012X5R1A225M085AA</a>	<a href="#">C2012X5R0J225M085AA</a>	
3.3 µF	1005	0.50±0.10	±10%	<a href="#">C1005X5R1A335K050BC</a>	<a href="#">C1005X5R0J335K050BC</a>	<a href="#">C1005X5R0G335K050BB</a>
			±20%	<a href="#">C1005X5R1A335M050BC</a>	<a href="#">C1005X5R0J335M050BC</a>	<a href="#">C1005X5R0G335M050BB</a>
	2012	1.25±0.20	±10%	<a href="#">C2012X5R1A335K125AA</a>		
			±20%	<a href="#">C2012X5R1A335M125AA</a>		
4.7 µF	1005	0.50+0.15,-0.10	±10%	<a href="#">C1005X5R1A475K050BC</a>	<a href="#">C1005X5R0J475K050BC</a>	<a href="#">C1005X5R0G475K050BB</a>
			±20%	<a href="#">C1005X5R1A475M050BC</a>	<a href="#">C1005X5R0J475M050BC</a>	<a href="#">C1005X5R0G475M050BB</a>

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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: 10V	Rated voltage Edc: 6.3V	Rated voltage Edc: 4V
4.7 µF	2012	0.60±0.15	±10%	<a href="#">C2012X5R1A475K060AB</a>		
			±20%	<a href="#">C2012X5R1A475M060AB</a>		
		1.25±0.20	±10%	<a href="#">C2012X5R1A475K125AA</a>		
			±20%	<a href="#">C2012X5R1A475M125AA</a>		
6.8 µF	1608	0.80±0.10	±10%	<a href="#">C1608X5R1A685K080AC</a>	<a href="#">C1608X5R0J685K080AB</a>	
			±20%	<a href="#">C1608X5R1A685M080AC</a>	<a href="#">C1608X5R0J685M080AB</a>	
		0.60±0.15	±10%	<a href="#">C2012X5R1A685K060AC</a>		
			±20%	<a href="#">C2012X5R1A685M060AC</a>		
10 µF	2012	0.85±0.15	±10%	<a href="#">C2012X5R1A685K085AB</a>	<a href="#">C2012X5R0J685K085AB</a>	
			±20%	<a href="#">C2012X5R1A685M085AB</a>	<a href="#">C2012X5R0J685M085AB</a>	
		0.80±0.10	±10%	<a href="#">C1608X5R1A106K080AC</a>	<a href="#">C1608X5R0J106K080AB</a>	
			±20%	<a href="#">C1608X5R1A106M080AC</a>	<a href="#">C1608X5R0J106M080AB</a>	
15 µF	1608	0.85±0.15	±10%	<a href="#">C2012X5R1A106K085AB</a>	<a href="#">C2012X5R0J106K085AB</a>	
			±20%	<a href="#">C2012X5R1A106M085AB</a>	<a href="#">C2012X5R0J106M085AB</a>	
		0.80±0.20	±20%	<a href="#">C1608X5R1A156M080AC</a>	<a href="#">C1608X5R0J156M080AC</a>	<a href="#">C1608X5R0G156M080AA</a>
			±20%	<a href="#">C2012X5R1A156M085AC</a>	<a href="#">C2012X5R0J156M085AB</a>	
22 µF	2012	1.25±0.20	±20%	<a href="#">C2012X5R1A156M125AB</a>		
			±20%	<a href="#">C3225X5R1A156M230AA</a>		
		0.85±0.15	±20%	<a href="#">C1608X5R1A226M080AC</a>	<a href="#">C1608X5R0J226M080AC</a>	<a href="#">C1608X5R0G226M080AA</a>
			±20%	<a href="#">C2012X5R1A226M085AC</a>	<a href="#">C2012X5R0J226M085AB</a>	
33 µF	3225	2.00±0.20	±10%	<a href="#">C2012X5R1A226K125AB</a>	<a href="#">C2012X5R0J226K125AB</a>	
			±20%	<a href="#">C2012X5R1A226M125AB</a>		
		2.30±0.20	±20%	<a href="#">C3225X5R1A226M230AA</a>	<a href="#">C3225X5R0J226M200AA</a>	<a href="#">C3225X5R0J226M200AA</a>
			±20%	<a href="#">C4532X5R1A226M230KA</a>		
47 µF	2012	1.25±0.20	±20%	<a href="#">C2012X5R1A336M125AC</a>	<a href="#">C2012X5R0J336M125AC</a>	
			±20%	<a href="#">C3216X5R1A336M160AB</a>		
		1.60±0.20	±20%	<a href="#">C3225X5R1A336M200AC</a>	<a href="#">C3225X5R0J336M200AA</a>	<a href="#">C3225X5R0J336M250AA</a>
			±20%	<a href="#">C4532X5R1A336M230KA</a>	<a href="#">C3225X5R0J336M250AA</a>	
68 µF	3216	2.00±0.20	±20%	<a href="#">C2012X5R1A476M125AC</a>	<a href="#">C2012X5R0J476M125AC</a>	<a href="#">C2012X5R0G476M125AB</a>
			±20%	<a href="#">C3216X5R1A476M160AB</a>		
		2.50±0.30	±20%	<a href="#">C3225X5R1A476M250AC</a>	<a href="#">C3225X5R0J476M250AA</a>	<a href="#">C3225X5R0J476M250AA</a>
			±20%	<a href="#">C4532X5R0J476M250KA</a>		
100 µF	4532	2.80±0.30	±20%	<a href="#">C4532X5R1A476M280KA</a>		
			±20%	<a href="#">C3216X5R1A686M160AC</a>	<a href="#">C3216X5R0J686M160AB</a>	
		2.30±0.20	±20%	<a href="#">C3216X5R1A107M160AC</a>	<a href="#">C3216X5R0J107M160AB</a>	<a href="#">C3216X5R0G107M160AB</a>
			±20%	<a href="#">C5750X5R1A686M230KA</a>	<a href="#">C4532X5R0J686M280KA</a>	
100 µF	5750	2.80±0.30	±20%	<a href="#">C3225X5R1A107M250AC</a>	<a href="#">C3225X5R0J107M250AB</a>	
			±20%	<a href="#">C4532X5R1A107M280KA</a>	<a href="#">C4532X5R0J107M280KA</a>	
		2.50±0.40,-0.30	±20%	<a href="#">C5750X5R1A107M280KC</a>	<a href="#">C5750X5R0J107M280KA</a>	
			±20%	<a href="#">C5750X5R1A107M280KC</a>	<a href="#">C5750X5R0J107M280KA</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: X6S (-55 to +105°C, ±22%)

Capacitance	Dimensions	Thickness (mm)	Capacitance tolerance	Catalog number			
				Rated voltage Edc: 50V	Rated voltage Edc: 35V	Rated voltage Edc: 25V	Rated voltage Edc: 16V
2.2 nF	0603	0.30±0.03	±10%			<a href="#">C0603X6S1E222K030BA</a>	<a href="#">C0603X6S1C222K030BA</a>
			±20%			<a href="#">C0603X6S1E222M030BA</a>	<a href="#">C0603X6S1C222M030BA</a>
4.7 nF	0603	0.30±0.03	±10%			<a href="#">C0603X6S1C472K030BA</a>	<a href="#">C0603X6S1C472K030BA</a>
			±20%			<a href="#">C0603X6S1C472M030BA</a>	<a href="#">C0603X6S1C472M030BA</a>
10 nF	1005	0.50±0.05	±10%	<a href="#">C1005X6S1H103K050BB</a>			
			±20%	<a href="#">C1005X6S1H103M050BB</a>			
15 nF	1005	0.50±0.05	±10%	<a href="#">C1005X6S1H153K050BB</a>			
			±20%	<a href="#">C1005X6S1H153M050BB</a>			
22 nF	0603	0.30±0.03	±10%				<a href="#">C0603X6S1C223K030BC</a>
			±20%				<a href="#">C0603X6S1C223M030BC</a>
	1005	0.50±0.05	±10%	<a href="#">C1005X6S1H223K050BB</a>			
			±20%	<a href="#">C1005X6S1H223M050BB</a>			
33 nF	1005	0.50±0.05	±10%	<a href="#">C1005X6S1H333K050BB</a>			
			±20%	<a href="#">C1005X6S1H333M050BB</a>			
47 nF	0603	0.30±0.03	±10%				<a href="#">C0603X6S1C473K030BC</a>
			±20%				<a href="#">C0603X6S1C473M030BC</a>
	1005	0.50±0.05	±10%	<a href="#">C1005X6S1H473K050BB</a>			
			±20%	<a href="#">C1005X6S1H473M050BB</a>			
68 nF	1005	0.50±0.05	±10%	<a href="#">C1005X6S1H683K050BB</a>	<a href="#">C1005X6S1V683K050BB</a>	<a href="#">C1005X6S1E683K050BC</a>	
			±20%	<a href="#">C1005X6S1H683M050BB</a>	<a href="#">C1005X6S1V683M050BB</a>	<a href="#">C1005X6S1E683M050BC</a>	
100 nF	0603	0.30±0.03	±10%				<a href="#">C0603X6S1C104K030BC</a>
			±20%				<a href="#">C0603X6S1C104M030BC</a>
	1005	0.50±0.05	±10%	<a href="#">C1005X6S1H104K050BB</a>	<a href="#">C1005X6S1V104K050BB</a>	<a href="#">C1005X6S1E104K050BC</a>	
			±20%	<a href="#">C1005X6S1H104M050BB</a>	<a href="#">C1005X6S1V104M050BB</a>	<a href="#">C1005X6S1E104M050BC</a>	
150 nF	1005	0.50±0.05	±10%				<a href="#">C1005X6S1E154K050BC</a>
			±20%				<a href="#">C1005X6S1E154M050BC</a>
	1608	0.80±0.10	±10%	<a href="#">C1608X6S1H154K080AB</a>	<a href="#">C1608X6S1V154K080AB</a>		
			±20%	<a href="#">C1608X6S1H154M080AB</a>	<a href="#">C1608X6S1V154M080AB</a>		
220 nF	1005	0.50±0.05	±10%			<a href="#">C1005X6S1E224K050BC</a>	<a href="#">C1005X6S1C224K050BB</a>
			±20%			<a href="#">C1005X6S1E224M050BC</a>	<a href="#">C1005X6S1C224M050BB</a>
	1608	0.80±0.10	±10%	<a href="#">C1608X6S1H224K080AB</a>	<a href="#">C1608X6S1V224K080AB</a>		
			±20%	<a href="#">C1608X6S1H224M080AB</a>	<a href="#">C1608X6S1V224M080AB</a>		
330 nF	1005	0.50±0.05	±10%				<a href="#">C1005X6S1C334K050BC</a>
			±20%				<a href="#">C1005X6S1C334M050BC</a>
	1608	0.80±0.10	±10%	<a href="#">C1608X6S1H334K080AB</a>	<a href="#">C1608X6S1V334K080AB</a>	<a href="#">C1608X6S1E334K080AB</a>	
			±20%	<a href="#">C1608X6S1H334M080AB</a>	<a href="#">C1608X6S1V334M080AB</a>	<a href="#">C1608X6S1E334M080AB</a>	
470 nF	1005	0.50±0.05	±10%				<a href="#">C1005X6S1C474K050BC</a>
			±20%				<a href="#">C1005X6S1C474M050BC</a>
	1608	0.80±0.10	±10%	<a href="#">C1608X6S1H474K080AB</a>	<a href="#">C1608X6S1V474K080AB</a>	<a href="#">C1608X6S1E474K080AB</a>	
			±20%	<a href="#">C1608X6S1H474M080AB</a>	<a href="#">C1608X6S1V474M080AB</a>	<a href="#">C1608X6S1E474M080AB</a>	
	2012	1.25±0.20	±10%	<a href="#">C2012X6S1H474K125AB</a>			
			±20%	<a href="#">C2012X6S1H474M125AB</a>			
680 nF	1005	0.50±0.05	±10%				<a href="#">C1005X6S1C684K050BC</a>
			±20%				<a href="#">C1005X6S1C684M050BC</a>
	1608	0.80±0.10	±10%	<a href="#">C1608X6S1H684K080AC</a>	<a href="#">C1608X6S1V684K080AB</a>	<a href="#">C1608X6S1E684K080AB</a>	<a href="#">C1608X6S1C684K080AC</a>
			±20%	<a href="#">C1608X6S1H684M080AC</a>	<a href="#">C1608X6S1V684M080AB</a>	<a href="#">C1608X6S1E684M080AB</a>	<a href="#">C1608X6S1C684M080AC</a>
	2012	1.25±0.20	±10%	<a href="#">C2012X6S1H684K125AB</a>			
			±20%	<a href="#">C2012X6S1H684M125AB</a>			
1 µF	1005	0.50±0.05	±10%				<a href="#">C1005X6S1C105K050BC</a>
			±20%				<a href="#">C1005X6S1C105M050BC</a>
	1608	0.80±0.10	±10%	<a href="#">C1608X6S1H105K080AC</a>	<a href="#">C1608X6S1V105K080AB</a>	<a href="#">C1608X6S1E105K080AB</a>	<a href="#">C1608X6S1C105K080AC</a>
			±20%	<a href="#">C1608X6S1H105M080AC</a>	<a href="#">C1608X6S1V105M080AB</a>	<a href="#">C1608X6S1E105M080AB</a>	<a href="#">C1608X6S1C105M080AC</a>
	2012	0.85±0.15	±10%	<a href="#">C2012X6S1H105K085AB</a>	<a href="#">C2012X6S1V105K085AB</a>	<a href="#">C2012X6S1E105K085AB</a>	
			±20%	<a href="#">C2012X6S1H105M085AB</a>	<a href="#">C2012X6S1V105M085AB</a>	<a href="#">C2012X6S1E105M085AB</a>	
	2012	1.25±0.20	±10%	<a href="#">C2012X6S1H105K125AB</a>			
			±20%	<a href="#">C2012X6S1H105M125AB</a>			
1.5 µF	1005	0.50±0.15,-0.10	±10%				<a href="#">C1005X6S1C155K050BC</a>
			±20%				<a href="#">C1005X6S1C155M050BC</a>
	1608	0.80±0.10	±10%				<a href="#">C1608X6S1C155K080AC</a>
			±20%				<a href="#">C1608X6S1C155M080AC</a>
	2012	1.25±0.20	±10%	<a href="#">C2012X6S1H155K125AB</a>	<a href="#">C2012X6S1V155K125AB</a>	<a href="#">C2012X6S1E155K125AB</a>	
			±20%	<a href="#">C2012X6S1H155M125AB</a>	<a href="#">C2012X6S1V155M125AB</a>	<a href="#">C2012X6S1E155M125AB</a>	
	3216	1.60±0.20	±10%	<a href="#">C3216X6S1H155K160AB</a>	<a href="#">C3216X6S1V155K160AB</a>		
			±20%	<a href="#">C3216X6S1H155M160AB</a>	<a href="#">C3216X6S1V155M160AB</a>		

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

# MULTILAYER CERAMIC CHIP CAPACITORS TDK

## Capacitance range table

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

Capacitance	Dimensions	Thickness (mm)	Capacitance tolerance	Catalog number			
				Rated voltage Edc: 50V	Rated voltage Edc: 35V	Rated voltage Edc: 25V	Rated voltage Edc: 16V
2.2 µF	1005	0.50±0.15,-0.10	±10%				<a href="#">C1005X6S1C225K050BC</a>
			±20%				<a href="#">C1005X6S1C225M050BC</a>
	1608	0.80±0.10	±10%				<a href="#">C1608X6S1C225K080AC</a>
			±20%				<a href="#">C1608X6S1C225M080AC</a>
	2012	0.85±0.15	±10%	<a href="#">C2012X6S1H225K085AC</a>	<a href="#">C2012X6S1V225K085AB</a>	<a href="#">C2012X6S1E225K085AB</a>	<a href="#">C2012X6S1C225K085AB</a>
			±20%	<a href="#">C2012X6S1H225M085AC</a>	<a href="#">C2012X6S1V225M085AB</a>	<a href="#">C2012X6S1E225M085AB</a>	<a href="#">C2012X6S1C225M085AB</a>
		1.25±0.20	±10%	<a href="#">C2012X6S1H225K125AB</a>	<a href="#">C2012X6S1V225K125AB</a>	<a href="#">C2012X6S1E225K125AC</a>	
			±20%	<a href="#">C2012X6S1H225M125AB</a>	<a href="#">C2012X6S1V225M125AB</a>	<a href="#">C2012X6S1E225M125AC</a>	
3216	1.60±0.20	±10%	<a href="#">C3216X6S1H225K160AB</a>	<a href="#">C3216X6S1V225K160AB</a>			
		±20%	<a href="#">C3216X6S1H225M160AB</a>	<a href="#">C3216X6S1V225M160AB</a>			
3.3 µF	1608	0.80±0.20	±10%				<a href="#">C1608X6S1C335K080AC</a>
			±20%				<a href="#">C1608X6S1C335M080AC</a>
	2012	1.25±0.20	±10%	<a href="#">C2012X6S1H335K125AC</a>	<a href="#">C2012X6S1V335K125AB</a>	<a href="#">C2012X6S1E335K125AC</a>	<a href="#">C2012X6S1C335K125AC</a>
			±20%	<a href="#">C2012X6S1H335M125AC</a>	<a href="#">C2012X6S1V335M125AB</a>	<a href="#">C2012X6S1E335M125AC</a>	<a href="#">C2012X6S1C335M125AC</a>
	3216	1.60±0.20	±10%	<a href="#">C3216X6S1H335K160AB</a>	<a href="#">C3216X6S1V335K160AB</a>		
			±20%	<a href="#">C3216X6S1H335M160AB</a>	<a href="#">C3216X6S1V335M160AB</a>		
4.7 µF	1608	0.80±0.20	±10%				<a href="#">C1608X6S1C475K080AC</a>
			±20%				<a href="#">C1608X6S1C475M080AC</a>
	2012	0.85±0.15	±10%				<a href="#">C2012X6S1C475K085AC</a>
			±20%				<a href="#">C2012X6S1C475M085AC</a>
	3216	1.25±0.20	±10%	<a href="#">C2012X6S1H475K125AC</a>	<a href="#">C2012X6S1V475K125AB</a>	<a href="#">C2012X6S1E475K125AC</a>	<a href="#">C2012X6S1C475K125AC</a>
			±20%	<a href="#">C2012X6S1H475M125AC</a>	<a href="#">C2012X6S1V475M125AB</a>	<a href="#">C2012X6S1E475M125AC</a>	<a href="#">C2012X6S1C475M125AC</a>
		1.60±0.20	±10%	<a href="#">C3216X6S1H475K160AB</a>	<a href="#">C3216X6S1V475K160AB</a>	<a href="#">C3216X6S1E475K160AB</a>	
			±20%	<a href="#">C3216X6S1H475M160AB</a>	<a href="#">C3216X6S1V475M160AB</a>	<a href="#">C3216X6S1E475M160AB</a>	
3225	2.50±0.30	±10%	<a href="#">C3225X6S1H475K250AB</a>				
		±20%	<a href="#">C3225X6S1H475M250AB</a>				
6.8 µF	2012	1.25±0.20	±10%				<a href="#">C2012X6S1C685K125AC</a>
			±20%				<a href="#">C2012X6S1C685M125AC</a>
	3216	1.60±0.20	±10%		<a href="#">C3216X6S1V685K160AC</a>	<a href="#">C3216X6S1E685K160AB</a>	<a href="#">C3216X6S1C685K160AC</a>
			±20%		<a href="#">C3216X6S1V685M160AC</a>	<a href="#">C3216X6S1E685M160AB</a>	<a href="#">C3216X6S1C685M160AC</a>
	3225	2.50±0.30	±10%	<a href="#">C3225X6S1H685K250AC</a>	<a href="#">C3225X6S1V685K250AC</a>	<a href="#">C3225X6S1E685K250AB</a>	
			±20%	<a href="#">C3225X6S1H685M250AC</a>	<a href="#">C3225X6S1V685M250AC</a>	<a href="#">C3225X6S1E685M250AB</a>	
10 µF	2012	0.85±0.15	±10%				<a href="#">C2012X6S1C106K085AC</a>
			±20%				<a href="#">C2012X6S1C106M085AC</a>
	3216	1.25±0.20	±10%				<a href="#">C2012X6S1C106K125AC</a>
			±20%				<a href="#">C2012X6S1C106M125AC</a>
	3216	0.85±0.15	±10%				<a href="#">C3216X6S1C106K085AC</a>
			±20%				<a href="#">C3216X6S1C106M085AC</a>
3225	2.50±0.30	±10%	<a href="#">C3225X6S1H106K250AC</a>	<a href="#">C3225X6S1V106K250AC</a>	<a href="#">C3225X6S1E106K250AC</a>	<a href="#">C3225X6S1C106M160AB</a>	
		±20%	<a href="#">C3225X6S1H106M250AC</a>	<a href="#">C3225X6S1V106M250AC</a>	<a href="#">C3225X6S1E106M250AC</a>	<a href="#">C3225X6S1C106M160AB</a>	
15 µF	2012	1.25±0.20	±20%				<a href="#">C2012X6S1C156M125AC</a>
							<a href="#">C3216X6S1C156M160AC</a>
22 µF	3216	1.60±0.20	±20%				<a href="#">C2012X6S1C226M125AC</a>
							<a href="#">C3216X6S1C226M160AC</a>
	3225	2.50±0.30	±20%				<a href="#">C3216X6S1E226M160AC</a>
			±20%				<a href="#">C3225X6S1C226M250AC</a>

Capacitance	Dimensions	Thickness (mm)	Capacitance tolerance	Catalog number		
				Rated voltage Edc: 10V	Rated voltage Edc: 6.3V	Rated voltage Edc: 4V
100 pF	0402	0.20±0.02	±10%	<a href="#">C0402X6S1A101K020BC</a>	<a href="#">C0402X6S0J101K020BC</a>	<a href="#">C0402X6S0G101K020BC</a>
			±20%	<a href="#">C0402X6S1A101M020BC</a>	<a href="#">C0402X6S0J101M020BC</a>	<a href="#">C0402X6S0G101M020BC</a>
150 pF	0402	0.20±0.02	±10%	<a href="#">C0402X6S1A151K020BC</a>	<a href="#">C0402X6S0J151K020BC</a>	<a href="#">C0402X6S0G151K020BC</a>
			±20%	<a href="#">C0402X6S1A151M020BC</a>	<a href="#">C0402X6S0J151M020BC</a>	<a href="#">C0402X6S0G151M020BC</a>
220 pF	0402	0.20±0.02	±10%	<a href="#">C0402X6S1A221K020BC</a>	<a href="#">C0402X6S0J221K020BC</a>	<a href="#">C0402X6S0G221K020BC</a>
			±20%	<a href="#">C0402X6S1A221M020BC</a>	<a href="#">C0402X6S0J221M020BC</a>	<a href="#">C0402X6S0G221M020BC</a>
330 pF	0402	0.20±0.02	±10%	<a href="#">C0402X6S1A331K020BC</a>	<a href="#">C0402X6S0J331K020BC</a>	<a href="#">C0402X6S0G331K020BC</a>
			±20%	<a href="#">C0402X6S1A331M020BC</a>	<a href="#">C0402X6S0J331M020BC</a>	<a href="#">C0402X6S0G331M020BC</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: X6S (-55 to +105°C, ±22%)

Capacitance	Dimensions	Thickness (mm)	Capacitance tolerance	Catalog number		
				Rated voltage Edc: 10V	Rated voltage Edc: 6.3V	Rated voltage Edc: 4V
470 pF	0402	0.20±0.02	±10%	C0402X6S1A471K020BC	C0402X6S0J471K020BC	C0402X6S0G471K020BC
			±20%	C0402X6S1A471M020BC	C0402X6S0J471M020BC	C0402X6S0G471M020BC
680 pF	0402	0.20±0.02	±10%	C0402X6S1A681K020BC	C0402X6S0J681K020BC	C0402X6S0G681K020BC
			±20%	C0402X6S1A681M020BC	C0402X6S0J681M020BC	C0402X6S0G681M020BC
2.2 nF	0603	0.30±0.03	±10%	C0603X6S1A222K030BA	C0603X6S0J222K030BA	
			±20%	C0603X6S1A222M030BA	C0603X6S0J222M030BA	
4.7 nF	0603	0.30±0.03	±10%	C0603X6S1A472K030BA	C0603X6S0J472K030BA	
			±20%	C0603X6S1A472M030BA	C0603X6S0J472M030BA	
10 nF	0603	0.30±0.03	±10%	C0603X6S1A103K030BA	C0603X6S0J103K030BA	
			±20%	C0603X6S1A103M030BA	C0603X6S0J103M030BA	
22 nF	0603	0.30±0.03	±10%	C0603X6S1A223K030BB		
			±20%	C0603X6S1A223M030BB		
47 nF	0603	0.30±0.03	±10%	C0603X6S1A473K030BB		
			±20%	C0603X6S1A473M030BB		
100 nF	0603	0.30±0.03	±10%		C0603X6S0J104K030BC	
			±20%		C0603X6S0J104M030BC	
150 nF	1005	0.50±0.05	±10%		C1005X6S0J104K050BA	C1005X6S0G104K050BA
			±20%		C1005X6S0J104M050BA	C1005X6S0G104M050BA
150 nF	0603	0.30±0.03	±10%		C0603X6S0J154K030BC	C0603X6S0G154K030BC
			±20%		C0603X6S0J154M030BC	C0603X6S0G154M030BC
220 nF	0603	0.30±0.03	±10%		C0603X6S0J224K030BC	C0603X6S0G224K030BC
			±20%		C0603X6S0J224M030BC	C0603X6S0G224M030BC
330 nF	0603	0.30±0.05	±10%			C0603X6S0G334K030BC
			±20%			C0603X6S0G334M030BC
470 nF	1005	0.50±0.05	±10%	C1005X6S1A334K050BC	C1005X6S0J334K050BC	C1005X6S0G334K050BC
			±20%	C1005X6S1A334M050BC	C1005X6S0J334M050BC	C1005X6S0G334M050BC
470 nF	0603	0.30±0.05	±10%			C0603X6S0G474M030BC
			±20%			C0603X6S0G474M030BC
680 nF	1005	0.50±0.05	±10%	C1005X6S1A684K050BC		C1005X6S0G684K050BC
			±20%	C1005X6S1A684M050BC		C1005X6S0G684M050BC
1 µF	1005	0.50±0.05	±10%	C1005X6S1A105K050BC		
			±20%	C1005X6S1A105M050BC		
1.5 µF	1608	0.80+0.15,-0.10	±10%	C1608X6S1A105K080AC	C1608X6S0J105K080AC	
			±20%	C1608X6S1A105M080AC	C1608X6S0J105M080AC	
1.5 µF	1005	0.50±0.05	±10%		C1005X6S0J155K050BC	C1005X6S0G155K050BC
			±20%		C1005X6S0J155M050BC	C1005X6S0G155M050BC
2.2 µF	1005	0.50±0.10	±10%	C1005X6S1A155K050BC		
			±20%	C1005X6S1A155M050BC		
3.3 µF	1608	0.80±0.10	±10%	C1608X6S1A155K080AB	C1608X6S0J155K080AB	
			±20%	C1608X6S1A155M080AB	C1608X6S0J155M080AB	
3.3 µF	1005	0.50±0.05	±10%		C1005X6S0J225K050BC	C1005X6S0G225K050BC
			±20%		C1005X6S0J225M050BC	C1005X6S0G225M050BC
4.7 µF	1005	0.50±0.10	±10%	C1005X6S1A225K050BC		
			±20%	C1005X6S1A225M050BC		
4.7 µF	1608	0.80±0.10	±10%	C1608X6S1A225K080AB	C1608X6S0J225K080AB	
			±20%	C1608X6S1A225M080AB	C1608X6S0J225M080AB	
4.7 µF	1005	0.50±0.10	±10%			C1005X6S0G335K050BC
			±20%			C1005X6S0G335M050BC
4.7 µF	1608	0.80±0.10	±10%	C1608X6S1A335K080AC	C1608X6S0J335K080AC	
			±20%	C1608X6S1A335M080AC	C1608X6S0J335M080AC	
4.7 µF	1005	0.50+0.15,-0.10	±10%			C1005X6S0G475M050BC
			±20%			C1005X6S0G475M050BC
4.7 µF	1608	0.80±0.10	±10%	C1608X6S1A475K080AC	C1608X6S0J475K080AC	
			±20%	C1608X6S1A475M080AC	C1608X6S0J475M080AC	

■ 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: X6S (-55 to +105°C,±22%)

Capacitance	Dimensions	Thickness (mm)	Capacitance tolerance	Catalog number		
				Rated voltage Edc: 10V	Rated voltage Edc: 6.3V	Rated voltage Edc: 4V
4.7 µF	2012	0.85±0.15	±10%	<a href="#">C2012X6S1A475K085AB</a>		
			±20%	<a href="#">C2012X6S1A475M085AB</a>		
		1.25±0.20	±10%		<a href="#">C2012X6S0J475K125AB</a>	
			±20%		<a href="#">C2012X6S0J475M125AB</a>	
6.8 µF	1608	0.80±0.10	±10%			<a href="#">C1608X6S0G685K080AC</a>
			±20%			<a href="#">C1608X6S0G685M080AC</a>
		0.80±0.20	±10%	<a href="#">C1608X6S1A685K080AC</a>	<a href="#">C1608X6S0J685K080AB</a>	
			±20%	<a href="#">C1608X6S1A685M080AC</a>	<a href="#">C1608X6S0J685M080AB</a>	
6.8 µF	2012	0.85±0.15	±10%	<a href="#">C2012X6S1A685K085AC</a>	<a href="#">C2012X6S0J685K085AB</a>	
			±20%	<a href="#">C2012X6S1A685M085AC</a>	<a href="#">C2012X6S0J685M085AB</a>	
		1.25±0.20	±10%	<a href="#">C2012X6S1A685K125AB</a>		
			±20%	<a href="#">C2012X6S1A685M125AB</a>		
10 µF	3216	0.85±0.15	±10%	<a href="#">C3216X6S1A685K085AB</a>		
			±20%	<a href="#">C3216X6S1A685M085AB</a>		
		0.80±0.10	±10%			<a href="#">C1608X6S0G106K080AB</a>
			±20%			<a href="#">C1608X6S0G106M080AC</a>
10 µF	2012	0.80±0.20	±20%	<a href="#">C1608X6S1A106M080AC</a>	<a href="#">C1608X6S0J106M080AC</a>	
			±10%	<a href="#">C2012X6S1A106K085AC</a>	<a href="#">C2012X6S0J106K085AC</a>	
		0.85±0.15	±20%	<a href="#">C2012X6S1A106M085AC</a>	<a href="#">C2012X6S0J106M085AC</a>	
			±10%	<a href="#">C2012X6S1A106K125AB</a>	<a href="#">C2012X6S0J106K125AB</a>	
15 µF	3216	0.85±0.15	±20%	<a href="#">C3216X6S1A106M125AB</a>	<a href="#">C2012X6S0J106M125AB</a>	
			±10%	<a href="#">C3216X6S1A106K085AB</a>	<a href="#">C2012X6S0J106K125AB</a>	
		1.60±0.20	±10%	<a href="#">C3216X6S1A106M085AB</a>	<a href="#">C3216X6S0J106M160AC</a>	
			±20%	<a href="#">C3216X6S1A106M085AB</a>	<a href="#">C3216X6S0J106M160AC</a>	
15 µF	1608	0.85±0.15	±20%			<a href="#">C2012X6S0G156M085AC</a>
			±10%	<a href="#">C2012X6S1A156M125AC</a>	<a href="#">C2012X6S0J156M125AB</a>	
		1.60±0.20	±20%	<a href="#">C3216X6S1A156M160AB</a>	<a href="#">C3216X6S0J156M160AB</a>	
			±10%			<a href="#">C1608X6S0G226M080AC</a>
22 µF	2012	0.85±0.15	±20%		<a href="#">C2012X6S0J226M085AC</a>	<a href="#">C2012X6S0G226M085AC</a>
			±10%	<a href="#">C2012X6S1A226M125AC</a>	<a href="#">C2012X6S0J226M125AB</a>	
		1.25±0.20	±20%	<a href="#">C3216X6S1A226M160AB</a>	<a href="#">C3216X6S0J226M160AB</a>	
			±10%	<a href="#">C3216X6S1A226M160AB</a>	<a href="#">C3216X6S0J226M160AB</a>	
33 µF	2012	1.25±0.20	±20%			<a href="#">C2012X6S0G336M125AC</a>
			±10%	<a href="#">C3216X6S1A336M160AC</a>	<a href="#">C3216X6S0J336M160AB</a>	
		1.60±0.20	±20%			<a href="#">C2012X6S0G476M125AC</a>
			±10%	<a href="#">C3216X6S1A476M160AC</a>	<a href="#">C3216X6S0J476M160AB</a>	
47 µF	3216	1.25±0.20	±20%	<a href="#">C3216X6S1A476M160AC</a>	<a href="#">C3216X6S0J476M160AB</a>	
			±10%	<a href="#">C3216X6S1A476M160AC</a>	<a href="#">C3216X6S0J476M160AB</a>	
		2.50±0.30	±20%		<a href="#">C3225X6S0J476M250AC</a>	
			±10%		<a href="#">C3225X6S0J476M250AC</a>	
68 µF	3216	1.60±0.30,-0.10	±20%			<a href="#">C3216X6S0G686M160AC</a>
			±10%			<a href="#">C3216X6S0G107M160AC</a>
		2.50±0.40,-0.30	±20%	<a href="#">C3225X6S1A107M250AC</a>	<a href="#">C3225X6S0J107M250AB</a>	
			±10%	<a href="#">C3225X6S1A107M250AC</a>	<a href="#">C3225X6S0J107M250AB</a>	
100 µF	4532	2.80±0.30	±20%		<a href="#">C4532X6S0J107M280KC</a>	
			±10%		<a href="#">C4532X6S0J107M280KC</a>	

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

## 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: 25V
100 pF	0603	0.30±0.03	±10%	<a href="#">C0603X7R1E101K030BA</a>	
			±20%	<a href="#">C0603X7R1E101M030BA</a>	
150 pF	0603	0.30±0.03	±10%	<a href="#">C0603X7R1E151K030BA</a>	
			±20%	<a href="#">C0603X7R1E151M030BA</a>	
220 pF	0603	0.30±0.03	±10%	<a href="#">C0603X7R1E221K030BA</a>	
			±20%	<a href="#">C0603X7R1E221M030BA</a>	
	1005	0.50±0.05	±10%	<a href="#">C1005X7R1H221K050BA</a>	
			±20%	<a href="#">C1005X7R1H221M050BA</a>	
330 pF	0603	0.30±0.03	±10%	<a href="#">C0603X7R1E331K030BA</a>	
			±20%	<a href="#">C0603X7R1E331M030BA</a>	
	1005	0.50±0.05	±10%	<a href="#">C1005X7R1H331K050BA</a>	
			±20%	<a href="#">C1005X7R1H331M050BA</a>	
470 pF	0603	0.30±0.03	±10%	<a href="#">C0603X7R1E471K030BA</a>	
			±20%	<a href="#">C0603X7R1E471M030BA</a>	
	1005	0.50±0.05	±10%	<a href="#">C1005X7R1H471K050BA</a>	
			±20%	<a href="#">C1005X7R1H471M050BA</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: 35V	Rated voltage Edc: 25V	Rated voltage Edc: 16V
680 pF	0603	0.30±0.03	±10%			<a href="#">C0603X7R1E681K030BA</a>	
			±20%			<a href="#">C0603X7R1E681M030BA</a>	
	1005	0.50±0.05	±10%	<a href="#">C1005X7R1H681K050BA</a>			
			±20%	<a href="#">C1005X7R1H681M050BA</a>			
1 nF	0603	0.30±0.03	±10%			<a href="#">C0603X7R1E102K030BA</a>	
			±20%			<a href="#">C0603X7R1E102M030BA</a>	
	1005	0.50±0.05	±10%	<a href="#">C1005X7R1H102K050BA</a>		<a href="#">C1005X7R1E102K050BA</a>	
			±20%	<a href="#">C1005X7R1H102M050BA</a>		<a href="#">C1005X7R1E102M050BA</a>	
	1608	0.80±0.10	±10%	<a href="#">C1608X7R1H102K080AA</a>			
			±20%				
1.5 nF	0603	0.30±0.03	±10%			<a href="#">C0603X7R1E152K030BA</a>	
			±20%			<a href="#">C0603X7R1E152M030BA</a>	
	1005	0.50±0.05	±10%	<a href="#">C1005X7R1H152K050BA</a>			
			±20%	<a href="#">C1005X7R1H152M050BA</a>			
2.2 nF	0603	0.30±0.03	±10%			<a href="#">C0603X7R1E222K030BA</a>	<a href="#">C0603X7R1C222K030BA</a>
			±20%			<a href="#">C0603X7R1E222M030BA</a>	<a href="#">C0603X7R1C222M030BA</a>
	1005	0.50±0.05	±10%	<a href="#">C1005X7R1H222K050BA</a>			
			±20%	<a href="#">C1005X7R1H222M050BA</a>			
	1608	0.80±0.10	±10%	<a href="#">C1608X7R1H222K080AA</a>			
			±20%				
3.3 nF	0603	0.30±0.03	±10%			<a href="#">C0603X7R1E332K030BA</a>	
			±20%			<a href="#">C0603X7R1E332M030BA</a>	
	1005	0.50±0.05	±10%	<a href="#">C1005X7R1H332K050BA</a>			
			±20%	<a href="#">C1005X7R1H332M050BA</a>			
4.7 nF	0603	0.30±0.03	±10%				<a href="#">C0603X7R1C472K030BA</a>
			±20%				<a href="#">C0603X7R1C472M030BA</a>
	1005	0.50±0.05	±10%	<a href="#">C1005X7R1H472K050BA</a>			
			±20%	<a href="#">C1005X7R1H472M050BA</a>			
	1608	0.80±0.10	±10%	<a href="#">C1608X7R1H472K080AA</a>			
			±20%				
6.8 nF	1005	0.50±0.05	±10%	<a href="#">C1005X7R1H682M050BA</a>			
			±20%				
10 nF	1005	0.50±0.05	±10%	<a href="#">C1005X7R1H103K050BB</a>	<a href="#">C1005X7R1V103K050BB</a>	<a href="#">C1005X7R1E103K050BB</a>	<a href="#">C1005X7R1C103K050BA</a>
			±20%	<a href="#">C1005X7R1H103M050BB</a>	<a href="#">C1005X7R1V103M050BB</a>	<a href="#">C1005X7R1E103M050BB</a>	<a href="#">C1005X7R1C103M050BA</a>
	1608	0.80±0.10	±10%	<a href="#">C1608X7R1H103K080AA</a>		<a href="#">C1608X7R1E103K080AA</a>	
			±20%	<a href="#">C1608X7R1H103M080AA</a>		<a href="#">C1608X7R1E103M080AA</a>	
15 nF	1005	0.50±0.05	±10%	<a href="#">C1005X7R1H153K050BB</a>	<a href="#">C1005X7R1V153K050BB</a>		
			±20%	<a href="#">C1005X7R1H153M050BB</a>	<a href="#">C1005X7R1V153M050BB</a>		
	1608	0.80±0.10	±10%	<a href="#">C1608X7R1H153K080AA</a>			
			±20%	<a href="#">C1608X7R1H153M080AA</a>			
22 nF	1005	0.50±0.05	±10%	<a href="#">C1005X7R1H223K050BB</a>	<a href="#">C1005X7R1V223K050BB</a>	<a href="#">C1005X7R1E223K050BB</a>	
			±20%	<a href="#">C1005X7R1H223M050BB</a>	<a href="#">C1005X7R1V223M050BB</a>	<a href="#">C1005X7R1E223M050BB</a>	
	1608	0.80±0.10	±10%	<a href="#">C1608X7R1H223K080AA</a>			
			±20%	<a href="#">C1608X7R1H223M080AA</a>			
33 nF	1005	0.50±0.05	±10%	<a href="#">C1005X7R1H333K050BB</a>	<a href="#">C1005X7R1V333K050BB</a>		
			±20%	<a href="#">C1005X7R1H333M050BB</a>	<a href="#">C1005X7R1V333M050BB</a>		
	1608	0.80±0.10	±10%	<a href="#">C1608X7R1H333K080AA</a>			
			±20%	<a href="#">C1608X7R1H333M080AA</a>			
47 nF	1005	0.50±0.05	±10%	<a href="#">C1005X7R1H473K050BB</a>	<a href="#">C1005X7R1V473K050BB</a>	<a href="#">C1005X7R1E473K050BC</a>	<a href="#">C1005X7R1C473K050BC</a>
			±20%	<a href="#">C1005X7R1H473M050BB</a>	<a href="#">C1005X7R1V473M050BB</a>	<a href="#">C1005X7R1E473M050BC</a>	<a href="#">C1005X7R1C473M050BC</a>
	1608	0.80±0.10	±10%	<a href="#">C1608X7R1H473K080AA</a>			
			±20%	<a href="#">C1608X7R1H473M080AA</a>			
68 nF	1005	0.50±0.05	±10%	<a href="#">C1005X7R1H683K050BB</a>	<a href="#">C1005X7R1V683K050BB</a>	<a href="#">C1005X7R1E683K050BB</a>	<a href="#">C1005X7R1C683K050BC</a>
			±20%	<a href="#">C1005X7R1H683M050BB</a>	<a href="#">C1005X7R1V683M050BB</a>	<a href="#">C1005X7R1E683M050BB</a>	<a href="#">C1005X7R1C683M050BC</a>
	1608	0.80±0.10	±10%	<a href="#">C1608X7R1H683K080AA</a>			
			±20%	<a href="#">C1608X7R1H683M080AA</a>			
100 nF	1005	0.50±0.05	±10%	<a href="#">C1005X7R1H104K050BB</a>	<a href="#">C1005X7R1V104K050BB</a>	<a href="#">C1005X7R1E104K050BB</a>	<a href="#">C1005X7R1C104K050BC</a>
			±20%	<a href="#">C1005X7R1H104M050BB</a>	<a href="#">C1005X7R1V104M050BB</a>	<a href="#">C1005X7R1E104M050BB</a>	<a href="#">C1005X7R1C104M050BC</a>
	1608	0.80±0.10	±10%	<a href="#">C1608X7R1H104K080AA</a>		<a href="#">C1608X7R1E104K080AA</a>	
			±20%	<a href="#">C1608X7R1H104M080AA</a>		<a href="#">C1608X7R1E104M080AA</a>	
150 nF	1005	0.50±0.05	±10%		<a href="#">C1005X7R1V154K050BC</a>	<a href="#">C1005X7R1E154K050BB</a>	<a href="#">C1005X7R1C154K050BC</a>
			±20%		<a href="#">C1005X7R1V154M050BC</a>	<a href="#">C1005X7R1E154M050BB</a>	<a href="#">C1005X7R1C154M050BC</a>
	1608	0.80±0.10	±10%	<a href="#">C1608X7R1H154K080AB</a>	<a href="#">C1608X7R1V154K080AB</a>	<a href="#">C1608X7R1E154K080AA</a>	
			±20%	<a href="#">C1608X7R1H154M080AB</a>	<a href="#">C1608X7R1V154M080AB</a>	<a href="#">C1608X7R1E154M080AA</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: 50V	Rated voltage Edc: 35V	Rated voltage Edc: 25V	Rated voltage Edc: 16V
220 nF	1005	0.50±0.05	±10%		<a href="#">C1005X7R1V224K050BC</a>	<a href="#">C1005X7R1E224K050BB</a>	<a href="#">C1005X7R1C224K050BC</a>
			±20%		<a href="#">C1005X7R1V224M050BC</a>	<a href="#">C1005X7R1E224M050BB</a>	<a href="#">C1005X7R1C224M050BC</a>
	1608	0.80±0.10	±10%	<a href="#">C1608X7R1H224K080AB</a>	<a href="#">C1608X7R1V224K080AB</a>	<a href="#">C1608X7R1E224K080AC</a>	<a href="#">C1608X7R1C224K080AC</a>
			±20%	<a href="#">C1608X7R1H224M080AB</a>	<a href="#">C1608X7R1V224M080AB</a>	<a href="#">C1608X7R1E224M080AC</a>	<a href="#">C1608X7R1C224M080AC</a>
2012	1.25±0.20	±10%	<a href="#">C2012X7R1H224K125AA</a>				
		±20%	<a href="#">C2012X7R1H224M125AA</a>				
3216	1.15±0.15	±10%	<a href="#">C3216X7R1H224K115AA</a>				
		±20%	<a href="#">C3216X7R1H224M115AA</a>				
330 nF	1608	0.80±0.10	±10%	<a href="#">C1608X7R1H334K080AC</a>	<a href="#">C1608X7R1V334K080AB</a>	<a href="#">C1608X7R1E334K080AC</a>	<a href="#">C1608X7R1C334K080AC</a>
			±20%	<a href="#">C1608X7R1H334M080AC</a>	<a href="#">C1608X7R1V334M080AB</a>	<a href="#">C1608X7R1E334M080AC</a>	<a href="#">C1608X7R1C334M080AC</a>
	2012	1.25±0.20	±10%	<a href="#">C2012X7R1H334K125AA</a>			
			±20%	<a href="#">C2012X7R1H334M125AA</a>			
3216	1.60±0.20	±10%	<a href="#">C3216X7R1H334K160AA</a>				
		±20%	<a href="#">C3216X7R1H334M160AA</a>				
470 nF	1608	0.80±0.10	±10%	<a href="#">C1608X7R1H474K080AC</a>	<a href="#">C1608X7R1V474K080AB</a>	<a href="#">C1608X7R1E474K080AB</a>	<a href="#">C1608X7R1C474K080AC</a>
			±20%	<a href="#">C1608X7R1H474M080AC</a>	<a href="#">C1608X7R1V474M080AB</a>	<a href="#">C1608X7R1E474M080AB</a>	<a href="#">C1608X7R1C474M080AC</a>
	2012	1.25±0.20	±10%	<a href="#">C2012X7R1H474K125AB</a>	<a href="#">C2012X7R1V474K125AB</a>	<a href="#">C2012X7R1E474K125AA</a>	
			±20%	<a href="#">C2012X7R1H474M125AB</a>	<a href="#">C2012X7R1V474M125AB</a>	<a href="#">C2012X7R1E474M125AA</a>	
3216	1.60±0.20	±10%	<a href="#">C3216X7R1H474K160AA</a>				
		±20%	<a href="#">C3216X7R1H474M160AA</a>				
680 nF	1608	0.80±0.10	±10%		<a href="#">C1608X7R1V684K080AC</a>	<a href="#">C1608X7R1E684K080AB</a>	<a href="#">C1608X7R1C684K080AC</a>
			±20%		<a href="#">C1608X7R1V684M080AC</a>	<a href="#">C1608X7R1E684M080AB</a>	<a href="#">C1608X7R1C684M080AC</a>
	2012	1.25±0.20	±10%	<a href="#">C2012X7R1H684K125AB</a>	<a href="#">C2012X7R1V684K125AB</a>	<a href="#">C2012X7R1E684K125AB</a>	<a href="#">C2012X7R1C684K125AA</a>
			±20%	<a href="#">C2012X7R1H684M125AB</a>	<a href="#">C2012X7R1V684M125AB</a>	<a href="#">C2012X7R1E684M125AB</a>	<a href="#">C2012X7R1C684M125AA</a>
3216	1.60±0.20	±10%	<a href="#">C3216X7R1H684K160AA</a>				
		±20%	<a href="#">C3216X7R1H684M160AA</a>				
1 µF	1608	0.80±0.10	±10%		<a href="#">C1608X7R1V105K080AC</a>	<a href="#">C1608X7R1E105K080AB</a>	<a href="#">C1608X7R1C105K080AC</a>
			±20%		<a href="#">C1608X7R1V105M080AC</a>	<a href="#">C1608X7R1E105M080AB</a>	<a href="#">C1608X7R1C105M080AC</a>
	2012	0.85±0.15	±10%	<a href="#">C2012X7R1H105K085AC</a>	<a href="#">C2012X7R1V105K085AB</a>	<a href="#">C2012X7R1E105K085AB</a>	<a href="#">C2012X7R1C105K085AC</a>
			±20%	<a href="#">C2012X7R1H105M085AC</a>	<a href="#">C2012X7R1V105M085AB</a>	<a href="#">C2012X7R1E105M085AB</a>	<a href="#">C2012X7R1C105M085AC</a>
3216	1.60±0.20	±10%	<a href="#">C2012X7R1H105K125AB</a>	<a href="#">C2012X7R1V105K125AB</a>	<a href="#">C2012X7R1E105K125AB</a>	<a href="#">C2012X7R1C105K125AA</a>	
		±20%	<a href="#">C2012X7R1H105M125AB</a>	<a href="#">C2012X7R1V105M125AB</a>	<a href="#">C2012X7R1E105M125AB</a>	<a href="#">C2012X7R1C105M125AA</a>	
3225	1.60±0.20	±10%			<a href="#">C3216X7R1E105K085AA</a>		
		±20%			<a href="#">C3216X7R1E105M085AA</a>		
	4532	1.60±0.20	±10%	<a href="#">C3216X7R1H105K160AB</a>		<a href="#">C3216X7R1E105K160AA</a>	
			±20%	<a href="#">C3216X7R1H105M160AA</a>		<a href="#">C3216X7R1E105M160AA</a>	
1.5 µF	2012	1.25±0.20	±10%	<a href="#">C2012X7R1H155K125AC</a>	<a href="#">C2012X7R1V155K125AB</a>	<a href="#">C2012X7R1E155K125AC</a>	<a href="#">C2012X7R1C155K125AB</a>
			±20%	<a href="#">C2012X7R1H155M125AC</a>	<a href="#">C2012X7R1V155M125AB</a>	<a href="#">C2012X7R1E155M125AC</a>	<a href="#">C2012X7R1C155M125AB</a>
	3216	1.60±0.20	±10%	<a href="#">C3216X7R1H155K160AB</a>	<a href="#">C3216X7R1V155K160AB</a>	<a href="#">C3216X7R1E155K160AA</a>	
			±20%	<a href="#">C3216X7R1H155M160AB</a>	<a href="#">C3216X7R1V155M160AB</a>	<a href="#">C3216X7R1E155M160AA</a>	
3225	2.00±0.20	±10%	<a href="#">C3225X7R1H155K200AA</a>				
		±20%	<a href="#">C3225X7R1H155M200AA</a>				
2.2 µF	2012	0.85±0.15	±10%		<a href="#">C2012X7R1V225K085AC</a>	<a href="#">C2012X7R1E225K085AB</a>	<a href="#">C2012X7R1C225K085AB</a>
			±20%		<a href="#">C2012X7R1V225M085AC</a>	<a href="#">C2012X7R1E225M085AB</a>	<a href="#">C2012X7R1C225M085AB</a>
	3216	1.60±0.20	±10%	<a href="#">C2012X7R1H225K125AC</a>	<a href="#">C2012X7R1V225K125AB</a>	<a href="#">C2012X7R1E225K125AB</a>	<a href="#">C2012X7R1C225K125AB</a>
			±20%	<a href="#">C2012X7R1H225M125AC</a>	<a href="#">C2012X7R1V225M125AB</a>	<a href="#">C2012X7R1E225M125AB</a>	<a href="#">C2012X7R1C225M125AB</a>
3225	2.00±0.20	±10%	<a href="#">C3216X7R1H225K160AB</a>	<a href="#">C3216X7R1V225K160AB</a>	<a href="#">C3216X7R1E225K160AA</a>		
		±20%	<a href="#">C3216X7R1H225M160AB</a>	<a href="#">C3216X7R1V225M160AB</a>	<a href="#">C3216X7R1E225M160AA</a>		
4532	1.60±0.20	±10%	<a href="#">C3225X7R1H225K200AB</a>				
		±20%	<a href="#">C3225X7R1H225M200AB</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 TDK

## 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	Rated voltage Edc: 16V
3.3 µF	2012	1.25±0.20	±10%			<a href="#">C2012X7R1V335K125AC</a>	<a href="#">C2012X7R1E335K125AB</a>	<a href="#">C2012X7R1C335K125AB</a>
			±20%			<a href="#">C2012X7R1V335M125AC</a>	<a href="#">C2012X7R1E335M125AB</a>	<a href="#">C2012X7R1C335M125AB</a>
	3216	1.60±0.20	±10%		<a href="#">C3216X7R1H335K160AC</a>		<a href="#">C3216X7R1E335K160AC</a>	
			±20%		<a href="#">C3216X7R1H335M160AC</a>	<a href="#">C3216X7R1V335M160AB</a>	<a href="#">C3216X7R1E335M160AC</a>	
	3225	1.60±0.20	±10%					<a href="#">C3225X7R1E335K160AA</a>
			±20%				<a href="#">C3225X7R1E335M160AA</a>	
	4532	2.00±0.20	2.50±0.30	±10%		<a href="#">C3225X7R1H335K250AB</a>		
				±20%		<a href="#">C3225X7R1H335M250AB</a>		
			±10%		<a href="#">C4532X7R1H335K200KA</a>			
			±20%		<a href="#">C4532X7R1H335M200KA</a>			
4.7 µF	2012	1.25±0.20	±10%		<a href="#">C2012X7R1H475K125AC</a>	<a href="#">C2012X7R1V475K125AC</a>	<a href="#">C2012X7R1E475K125AB</a>	<a href="#">C2012X7R1C475K125AB</a>
			±20%			<a href="#">C2012X7R1V475M125AC</a>	<a href="#">C2012X7R1E475M125AB</a>	<a href="#">C2012X7R1C475M125AB</a>
	3216	0.85±0.15	±10%			<a href="#">C3216X7R1V475K085AC</a>	<a href="#">C3216X7R1E475K085AB</a>	<a href="#">C3216X7R1C475K085AB</a>
			±20%			<a href="#">C3216X7R1V475M085AC</a>	<a href="#">C3216X7R1E475M085AB</a>	<a href="#">C3216X7R1C475M085AB</a>
	3216	1.60±0.20	±10%		<a href="#">C3216X7R1H475K160AC</a>	<a href="#">C3216X7R1V475K160AB</a>	<a href="#">C3216X7R1E475K160AC</a>	<a href="#">C3216X7R1C475K160AB</a>
			±20%		<a href="#">C3216X7R1H475M160AC</a>	<a href="#">C3216X7R1V475M160AB</a>	<a href="#">C3216X7R1E475M160AC</a>	<a href="#">C3216X7R1C475M160AB</a>
	3225	2.00±0.20	±10%				<a href="#">C3225X7R1E475K200AA</a>	
			±20%				<a href="#">C3225X7R1E475M200AA</a>	
	4532	2.00±0.20	2.50±0.30	±10%		<a href="#">C3225X7R1H475K250AB</a>		
				±20%		<a href="#">C3225X7R1H475M250AB</a>		
				±10%		<a href="#">C4532X7R1H475K200KB</a>		
				±20%		<a href="#">C4532X7R1H475M200KB</a>		<a href="#">C4532X7R1E475M200KA</a>
5750	2.00±0.20	2.80±0.30	±10%		<a href="#">C5750X7R1H475K200KA</a>			
			±20%		<a href="#">C5750X7R1H475M200KA</a>			
			±20%		<a href="#">C5750X7R1H475M280KA</a>			
6.8 µF	3216	1.60±0.20	±10%			<a href="#">C3216X7R1V685K160AC</a>	<a href="#">C3216X7R1E685K160AB</a>	<a href="#">C3216X7R1C685K160AC</a>
			±20%			<a href="#">C3216X7R1V685M160AC</a>	<a href="#">C3216X7R1E685M160AB</a>	<a href="#">C3216X7R1C685M160AC</a>
	3225	2.50±0.30	±10%				<a href="#">C3225X7R1E685K250AB</a>	
			±20%				<a href="#">C3225X7R1E685M250AB</a>	
	4532	2.50±0.30	2.50±0.30	±10%		<a href="#">C4532X7R1H685K250KB</a>		
				±20%		<a href="#">C4532X7R1H685M250KB</a>		
	5750	2.50±0.30	2.50±0.30	±10%		<a href="#">C5750X7R1H685K250KA</a>		
				±20%		<a href="#">C5750X7R1H685M250KA</a>		
10 µF	3216	1.60±0.20	±10%		<a href="#">C3216X7R1H106K160AC</a>	<a href="#">C3216X7R1V106K160AC</a>	<a href="#">C3216X7R1E106K160AB</a>	<a href="#">C3216X7R1C106K160AC</a>
			±20%			<a href="#">C3216X7R1V106M160AC</a>	<a href="#">C3216X7R1E106M160AB</a>	<a href="#">C3216X7R1C106M160AC</a>
	3225	2.00±0.20	±10%					<a href="#">C3225X7R1C106K200AB</a>
			±20%				<a href="#">C3225X7R1C106M200AB</a>	
	3225	2.50±0.30	±10%		<a href="#">C3225X7R1N106K250AC</a>	<a href="#">C3225X7R1H106K250AC</a>	<a href="#">C3225X7R1E106K250AC</a>	
			±20%		<a href="#">C3225X7R1N106M250AC</a>	<a href="#">C3225X7R1H106M250AC</a>	<a href="#">C3225X7R1E106M250AC</a>	
	4532	2.30±0.20	2.50±0.30	±10%				<a href="#">C4532X7R1C106K230KA</a>
				±20%				<a href="#">C4532X7R1C106M230KA</a>
	5750	2.00±0.20	2.50±0.30	±10%				<a href="#">C4532X7R1E106M250KA</a>
				±20%				<a href="#">C5750X7R1E106M200KA</a>
	5750	2.30±0.20	±10%		<a href="#">C5750X7R1H106K230KB</a>			
±20%				<a href="#">C5750X7R1H106M230KB</a>				
15 µF	3225	2.50±0.30	±20%				<a href="#">C3225X7R1C156M250AB</a>	
			±20%					
	4532	2.50±0.30	±20%			<a href="#">C4532X7R1E156M250KC</a>		
5750	2.80±0.30	2.30±0.20	±20%			<a href="#">C4532X7R1E156M280KB</a>		
			±20%			<a href="#">C5750X7R1E156M230KA</a>		
22 µF	3225	2.50±0.30	±10%				<a href="#">C3225X7R1C226K250AC</a>	
			±20%			<a href="#">C3225X7R1E226M250AB</a>	<a href="#">C3225X7R1C226M250AC</a>	
	4532	2.00±0.20	2.30±0.20	±20%				<a href="#">C4532X7R1C226M200KC</a>
				±20%				<a href="#">C4532X7R1C226M230KB</a>
	5750	2.50±0.30	2.50±0.30	±20%			<a href="#">C4532X7R1E226M250KC</a>	
±20%					<a href="#">C5750X7R1H226M250KB</a>	<a href="#">C5750X7R1E226M250KA</a>		
33 µF	4532	2.50±0.30	±20%				<a href="#">C5750X7R1C226M280KA</a>	
			±20%				<a href="#">C4532X7R1C336M250KC</a>	
47 µF	5750	2.00±0.20	±20%				<a href="#">C5750X7R1C336M200KB</a>	
			±20%				<a href="#">C5750X7R1C476M230KB</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: 10V	Rated voltage Edc: 6.3V	Rated voltage Edc: 4V
100 pF	0402	0.20±0.02	±10%	C0402X7R1A101K020BC	C0402X7R0J101K020BC	C0402X7R0G101K020BC
			±20%	C0402X7R1A101M020BC	C0402X7R0J101M020BC	C0402X7R0G101M020BC
150 pF	0402	0.20±0.02	±10%	C0402X7R1A151K020BC	C0402X7R0J151K020BC	C0402X7R0G151K020BC
			±20%	C0402X7R1A151M020BC	C0402X7R0J151M020BC	C0402X7R0G151M020BC
220 pF	0402	0.20±0.02	±10%	C0402X7R1A221K020BC	C0402X7R0J221K020BC	C0402X7R0G221K020BC
			±20%	C0402X7R1A221M020BC	C0402X7R0J221M020BC	C0402X7R0G221M020BC
330 pF	0402	0.20±0.02	±10%	C0402X7R1A331K020BC	C0402X7R0J331K020BC	C0402X7R0G331K020BC
			±20%	C0402X7R1A331M020BC	C0402X7R0J331M020BC	C0402X7R0G331M020BC
470 pF	0402	0.20±0.02	±10%	C0402X7R1A471K020BC	C0402X7R0J471K020BC	C0402X7R0G471K020BC
			±20%	C0402X7R1A471M020BC	C0402X7R0J471M020BC	C0402X7R0G471M020BC
680 pF	0402	0.20±0.02	±10%	C0402X7R1A681K020BC	C0402X7R0J681K020BC	C0402X7R0G681K020BC
			±20%	C0402X7R1A681M020BC	C0402X7R0J681M020BC	C0402X7R0G681M020BC
1 nF	0402	0.20±0.02	±10%	C0402X7R1A102K020BC		
			±20%	C0402X7R1A102M020BC		
1.5 nF	0402	0.20±0.02	±10%	C0402X7R1A152K020BC		
			±20%	C0402X7R1A152M020BC		
2.2 nF	0603	0.30±0.03	±10%	C0603X7R1A222K030BA	C0603X7R0J222K030BA	
			±20%	C0603X7R1A222M030BA	C0603X7R0J222M030BA	
4.7 nF	0603	0.30±0.03	±10%	C0603X7R1A472K030BA	C0603X7R0J472K030BA	
			±20%	C0603X7R1A472M030BA	C0603X7R0J472M030BA	
10 nF	0603	0.30±0.03	±10%	C0603X7R1A103K030BA	C0603X7R0J103K030BA	
			±20%	C0603X7R1A103M030BA	C0603X7R0J103M030BC	
100 nF	1005	0.50±0.05	±10%	C1005X7R1A104K050BB		
			±20%	C1005X7R1A104M050BB		
150 nF	1005	0.50±0.05	±10%	C1005X7R1A154K050BB		
			±20%	C1005X7R1A154M050BB		
220 nF	1005	0.50±0.05	±10%	C1005X7R1A224K050BB		
			±20%	C1005X7R1A224M050BB		
680 nF	1608	0.80+0.15,-0.10	±10%	C1608X7R1A684K080AC		
			±20%	C1608X7R1A684M080AC		
1 μF	1608	0.80+0.15,-0.10	±10%	C1608X7R1A105K080AC		
			±20%	C1608X7R1A105M080AC		
1.5 μF	1608	0.80±0.10	±10%	C1608X7R1A155K080AC	C1608X7R0J155K080AB	
			±20%	C1608X7R1A155M080AC	C1608X7R0J155M080AB	
2.2 μF	1608	0.80±0.10	±10%	C1608X7R1A225K080AC	C1608X7R0J225K080AB	
			±20%	C1608X7R1A225M080AC	C1608X7R0J225M080AB	
3.3 μF	2012	1.25±0.20	±10%	C2012X7R1A335K125AC		
			±20%	C2012X7R1A335M125AC		
4.7 μF	2012	0.85±0.15	±10%	C2012X7R1A475K085AC	C2012X7R0J475K085AB	
			±20%	C2012X7R1A475M085AC	C2012X7R0J475M085AB	
6.8 μF	2012	1.25±0.20	±10%	C2012X7R1A685K125AC	C2012X7R0J685K125AB	
			±20%	C2012X7R1A685M125AC	C2012X7R0J685M125AB	
10 μF	1608	0.80+0.30,-0.10	±10%	C1608X7R1A106M080AT		
			±20%	C2012X7R1A106K125AC	C2012X7R0J106K125AB	
10 μF	2012	1.25±0.20	±10%	C2012X7R1A106M125AC	C2012X7R0J106M125AB	
			±20%	C3216X7R1A106K085AC	C3216X7R0J106K085AB	
10 μF	3216	0.85±0.15	±10%	C3216X7R1A106M085AC	C3216X7R0J106M085AB	
			±20%	C3216X7R1A106M160AC		
22 μF	3225	2.30±0.20	±10%	C3225X7R1A226K230AC		
			±20%	C3225X7R1A226M230AC		

C1608X7R1A106M080AT is a product with special temperature characteristics and satisfies the capacitance change rate when 50% of the rated voltage is applied.

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

Click the part numbers for details.

## 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
330 nF	1005	0.50±0.05	±10%			<a href="#">C1005X7S1C334K050BC</a>
			±20%			<a href="#">C1005X7S1C334M050BC</a>
470 nF	1005	0.50±0.05	±10%			<a href="#">C1005X7S1C474K050BC</a>
			±20%			<a href="#">C1005X7S1C474M050BC</a>
1.5 µF	1608	0.80±0.10	±10%			<a href="#">C1608X7S1C155K080AC</a>
			±20%			<a href="#">C1608X7S1C155M080AC</a>
2.2 µF	1608	0.80±0.10	±10%			<a href="#">C1608X7S1C225K080AC</a>
			±20%			<a href="#">C1608X7S1C225M080AC</a>
6.8 µF	2012	1.25±0.20	±10%			<a href="#">C2012X7S1C685K125AC</a>
			±20%			<a href="#">C2012X7S1C685M125AC</a>
	3225	2.50±0.30	±10%	<a href="#">C3225X7S1H685K250AB</a>		
			±20%	<a href="#">C3225X7S1H685M250AB</a>		
10 µF	2012	1.25±0.20	±10%		<a href="#">C2012X7S1E106K125AC</a>	<a href="#">C2012X7S1C106K125AC</a>
			±20%			<a href="#">C2012X7S1C106M125AC</a>
	3225	2.50±0.30	±10%	<a href="#">C3225X7S1H106K250AB</a>		
			±20%	<a href="#">C3225X7S1H106M250AB</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: 10V	Rated voltage Edc: 6.3V	Rated voltage Edc: 4V
22 nF	0603	0.30±0.03	±10%	<a href="#">C0603X7S1A223K030BC</a>	<a href="#">C0603X7S0J223K030BB</a>	
			±20%	<a href="#">C0603X7S1A223M030BC</a>	<a href="#">C0603X7S0J223M030BB</a>	
47 nF	0603	0.30±0.03	±10%	<a href="#">C0603X7S1A473K030BC</a>	<a href="#">C0603X7S0J473K030BB</a>	
			±20%	<a href="#">C0603X7S1A473M030BC</a>	<a href="#">C0603X7S0J473M030BB</a>	
100 nF	0603	0.30±0.03	±10%	<a href="#">C0603X7S1A104K030BC</a>		<a href="#">C0603X7S0G104K030BC</a>
			±20%	<a href="#">C0603X7S1A104M030BC</a>		<a href="#">C0603X7S0G104M030BC</a>
150 nF	0603	0.30±0.05	±10%		<a href="#">C0603X7S0J154K030BC</a>	
			±20%		<a href="#">C0603X7S0J154M030BC</a>	
220 nF	0603	0.30±0.03	±10%			<a href="#">C0603X7S0G224K030BC</a>
			±20%			<a href="#">C0603X7S0G224M030BC</a>
		0.30±0.05	±10%	<a href="#">C0603X7S0J224K030BC</a>		
			±20%	<a href="#">C0603X7S0J224M030BC</a>		
330 nF	1005	0.50±0.05	±10%	<a href="#">C1005X7S1A334K050BC</a>	<a href="#">C1005X7S0J334K050BC</a>	
			±20%	<a href="#">C1005X7S1A334M050BC</a>	<a href="#">C1005X7S0J334M050BC</a>	
470 nF	1005	0.50±0.05	±10%	<a href="#">C1005X7S1A474K050BC</a>	<a href="#">C1005X7S0J474K050BB</a>	
			±20%	<a href="#">C1005X7S1A474M050BC</a>	<a href="#">C1005X7S0J474M050BB</a>	
680 nF	1005	0.50±0.05	±10%	<a href="#">C1005X7S1A684K050BC</a>	<a href="#">C1005X7S0J684K050BC</a>	<a href="#">C1005X7S0G684K050BC</a>
			±20%	<a href="#">C1005X7S1A684M050BC</a>	<a href="#">C1005X7S0J684M050BC</a>	<a href="#">C1005X7S0G684M050BC</a>
1 µF	1005	0.50±0.05	±10%	<a href="#">C1005X7S1A105K050BC</a>	<a href="#">C1005X7S0J105K050BC</a>	<a href="#">C1005X7S0G105K050BC</a>
			±20%	<a href="#">C1005X7S1A105M050BC</a>	<a href="#">C1005X7S0J105M050BC</a>	<a href="#">C1005X7S0G105M050BC</a>
		0.50±0.05	±10%			<a href="#">C1005X7S0G155K050BC</a>
			±20%			<a href="#">C1005X7S0G155M050BC</a>
1.5 µF	1005	0.50±0.10	±10%		<a href="#">C1005X7S0J155K050BC</a>	
			±20%		<a href="#">C1005X7S0J155M050BC</a>	
		0.50+0.15,-0.10	±10%	<a href="#">C1005X7S1A155K050BC</a>		
			±20%	<a href="#">C1005X7S1A155M050BC</a>		
		0.50±0.05	±10%			<a href="#">C1005X7S0G225K050BC</a>
			±20%			<a href="#">C1005X7S0G225M050BC</a>
2.2 µF	1005	0.50±0.10	±10%	<a href="#">C1005X7S0J225K050BC</a>	<a href="#">C1005X7S0J225M050BC</a>	
			±20%	<a href="#">C1005X7S0J225M050BC</a>		
		0.50+0.15,-0.10	±10%	<a href="#">C1005X7S1A225K050BC</a>		
			±20%	<a href="#">C1005X7S1A225M050BC</a>		
	1608	0.80±0.10	±10%	<a href="#">C1608X7S1A225K080AC</a>	<a href="#">C1608X7S0J225K080AB</a>	
			±20%	<a href="#">C1608X7S1A225M080AC</a>	<a href="#">C1608X7S0J225M080AB</a>	
3.3 µF	1608	0.80±0.10	±10%		<a href="#">C1608X7S0J335K080AC</a>	<a href="#">C1608X7S0G335K080AC</a>
			±20%		<a href="#">C1608X7S0J335M080AC</a>	<a href="#">C1608X7S0G335M080AC</a>
		0.80±0.20	±10%	<a href="#">C1608X7S1A335K080AC</a>		
			±20%	<a href="#">C1608X7S1A335M080AC</a>		
4.7 µF	1608	0.80±0.10	±10%		<a href="#">C1608X7S0J475K080AC</a>	<a href="#">C1608X7S0G475K080AC</a>
			±20%		<a href="#">C1608X7S0J475M080AC</a>	<a href="#">C1608X7S0G475M080AC</a>
		0.80±0.20	±10%	<a href="#">C1608X7S1A475K080AC</a>		
			±20%	<a href="#">C1608X7S1A475M080AC</a>		
6.8 µF	1608	0.80±0.20	±10%		<a href="#">C1608X7S0J685K080AC</a>	<a href="#">C1608X7S0G685K080AB</a>
			±20%		<a href="#">C1608X7S0J685M080AC</a>	<a href="#">C1608X7S0G685M080AB</a>
		0.80±0.20	±20%	<a href="#">C1608X7S0J106M080AC</a>	<a href="#">C1608X7S0G106M080AB</a>	
10 µF	2012	0.85±0.15	±10%		<a href="#">C2012X7S0J106K085AC</a>	<a href="#">C2012X7S0G106K085AC</a>
			±20%		<a href="#">C2012X7S0J106M085AC</a>	<a href="#">C2012X7S0G106M085AC</a>
15 µF	2012	1.25±0.20	±20%	<a href="#">C2012X7S1A156M125AC</a>	<a href="#">C2012X7S0J156M125AC</a>	<a href="#">C2012X7S0G156M125AC</a>
22 µF	3216	1.60±0.20	±20%	<a href="#">C3216X7S1A156M160AC</a>	<a href="#">C3216X7S0J156M160AB</a>	
22 µF	2012	1.25±0.20	±20%	<a href="#">C2012X7S1A226M125AC</a>	<a href="#">C2012X7S0J226M125AC</a>	<a href="#">C2012X7S0G226M125AC</a>
33 µF	3216	1.60±0.20	±20%	<a href="#">C3216X7S1A226M160AC</a>	<a href="#">C3216X7S0J226M160AB</a>	
33 µF	3216	1.60±0.20	±20%		<a href="#">C3216X7S0J336M160AC</a>	<a href="#">C3216X7S0G336M160AB</a>
47 µF	3216	1.60±0.20	±20%		<a href="#">C3216X7S0J476M160AC</a>	<a href="#">C3216X7S0G476M160AB</a>
	3225	2.50±0.30	±20%	<a href="#">C3225X7S1A476M250AC</a>	<a href="#">C3225X7S0J476M250AC</a>	

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

Click the part numbers for details.

## 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
10µF	1608	0.80+0.30,-0.10	±20%	<a href="#">C1608X7T1A106M080AC</a>	
100µF	3225	2.50+0.40,-0.30	±20%	<a href="#">C3225X7T1A107M250AC</a>	<a href="#">C3225X7T0J107M250AB</a>

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.