

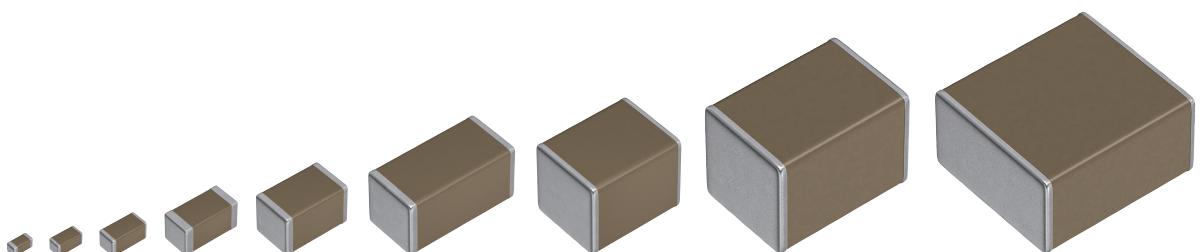
MULTILAYER CERAMIC CHIP CAPACITORS

Commercial grade, general (Up to 75V)

C series

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]

* Dimensions code: JIS[EIA]



REMINDERS FOR USING THESE PRODUCTS

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

SAFETY REMINDERS

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

REMINDERS

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

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

If you intend to use the products in the applications listed below or if you have special requirements exceeding the range or conditions set forth in the each catalog, please contact us.

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

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

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

Notice: Effective January 2013, TDK will use a new catalog number which adds product thickness and packaging specification detail.

This new catalog number should be referenced on all catalog orders going forward, and is not applicable for OEM part number orders.

Please be aware the last five digits of the catalog number will differ from the item description (internal control number) on the product label.

Contact your local TDK Sales representative for more information.

(Example)

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

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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 100μF and the lineup has been expanding to a range of the film capacitor and electrolytic capacitor.

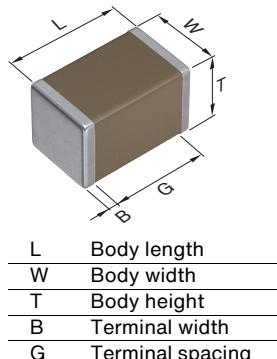
FEATURES

- 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

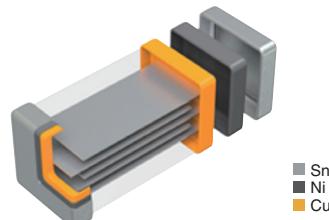


Dimensions in mm

Type	L	W	T	B	G
C0402	0.40±0.02	0.20±0.02	0.20±0.02	0.07 min.	0.14 min.
C0603	0.60±0.03	0.30±0.03	0.30±0.03	0.10 min.	0.20 min.
C1005	1.00±0.05	0.50±0.05	0.50±0.05	0.10 min.	0.30 min.
C1608	1.60±0.10	0.80±0.10	0.80±0.10	0.20 min.	0.30 min.
C2012	2.00±0.20	1.25±0.20	1.25±0.20	0.20 min.	0.50 min.
C3216	3.20±0.20	1.60±0.20	1.60±0.20	0.20 min.	1.00 min.
C3225	3.20±0.40	2.50±0.30	2.50±0.30	0.20 min.	-
C4532	4.50±0.40	3.20±0.40	3.20±0.40	0.20 min.	-
C5750	5.70±0.40	5.00±0.40	2.80±0.30	0.20 min.	-

* Dimensional tolerances are typical values.

PRODUCT STRUCTURE



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

Please be sure to request delivery specifications that provide further details on the features and specifications of the products for proper and safe use.
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MULTILAYER CERAMIC CHIP CAPACITORS

CATALOG NUMBER CONSTRUCTION

C	3216	X5R	1A	107	M	160	A	C
(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
C0G	0±30 ppm/°C	-55 to +125°C
X5R	±15%	-55 to +85°C
X6S	±22%	-55 to +105°C
X7R	±15%	-55 to +125°C
X7S	±22%	-55 to +125°C
X7T	+22,-33%	-55 to +125°C

(4)Rated voltage (DC)

Code	Voltage (DC)
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

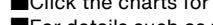
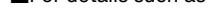
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MULTILAYER CERAMIC CHIP CAPACITORS

Capacitance range chart

C0402 [01005 inch]

Capacitance		COG	X5R				X6S			X7R			
(pF)	Code		1C (16V)	1C (16V)	1A (10V)	0J (6.3V)	0G (4V)	1A (10V)	0J (6.3V)	0G (4V)	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												

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.

MULTILAYER CERAMIC CHIP CAPACITORS

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		XTR				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.

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MULTILAYER CERAMIC CHIP CAPACITORS

Capacitance range chart

C1005 [0402 inch]

Capacitance (pF)	Code	COG		X5R								X6S							
		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.

MULTILAYER CERAMIC CHIP CAPACITORS

Capacitance range chart

C1005 [0402 inch]

Capacitance (pF)	Code	X7R					X7S			
		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.

■ 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

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.

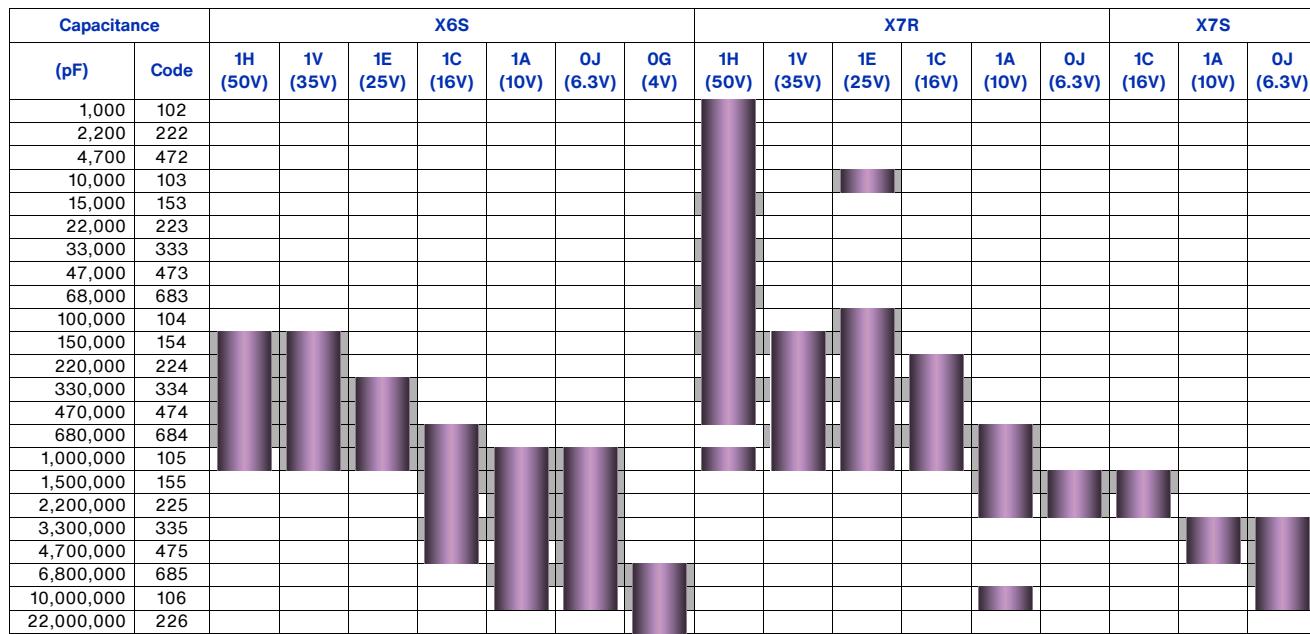
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MULTILAYER CERAMIC CHIP CAPACITORS



Capacitance range chart

C1608 [0603 inch]



Standard thickness 0.80 mm

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

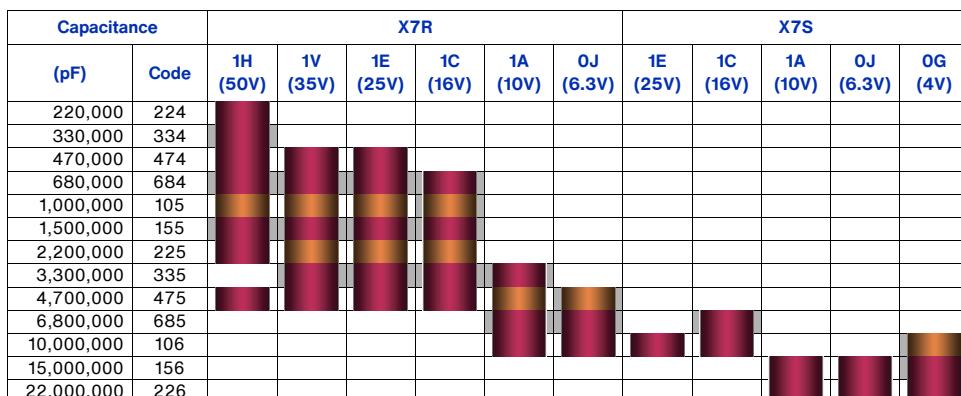
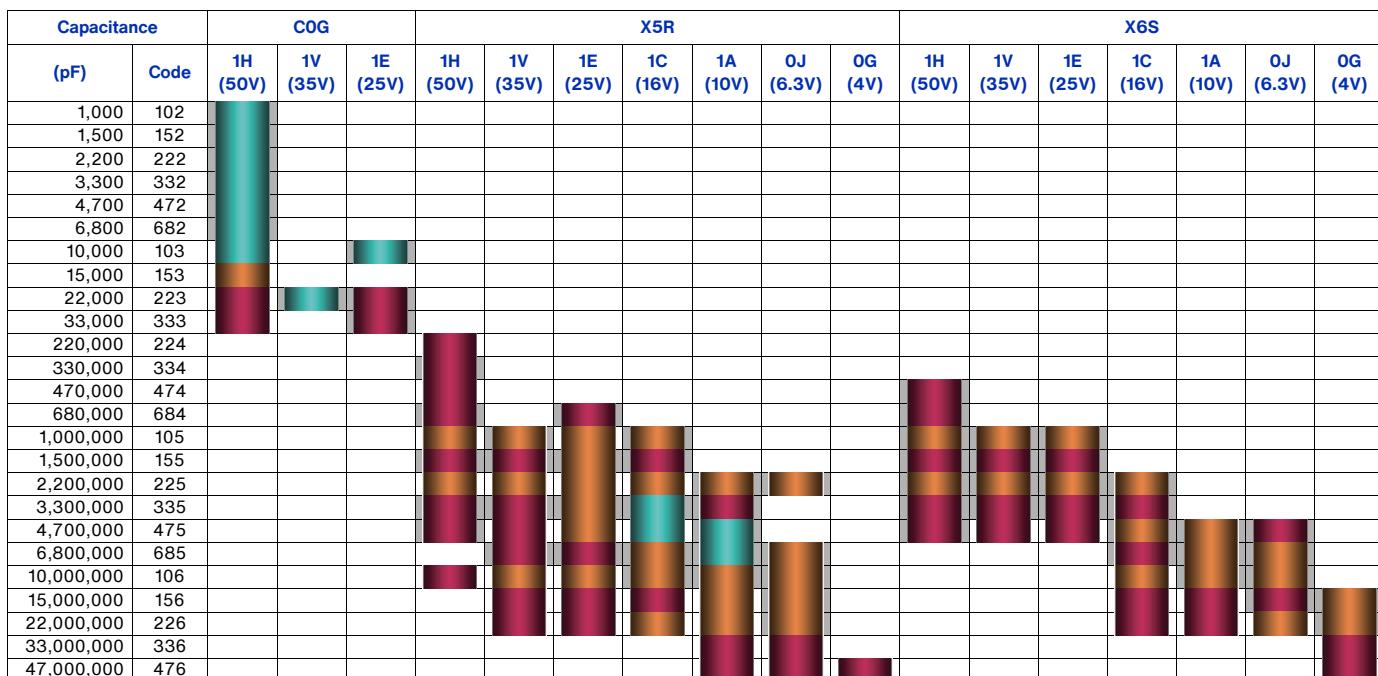
■ Click the charts for details.

■ 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.

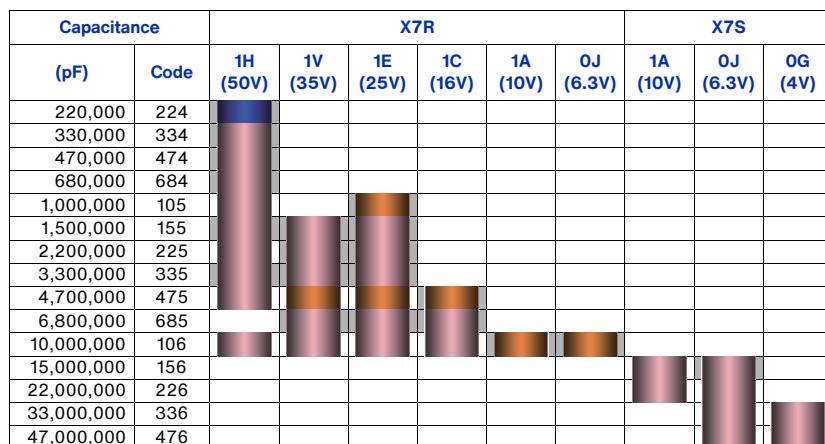
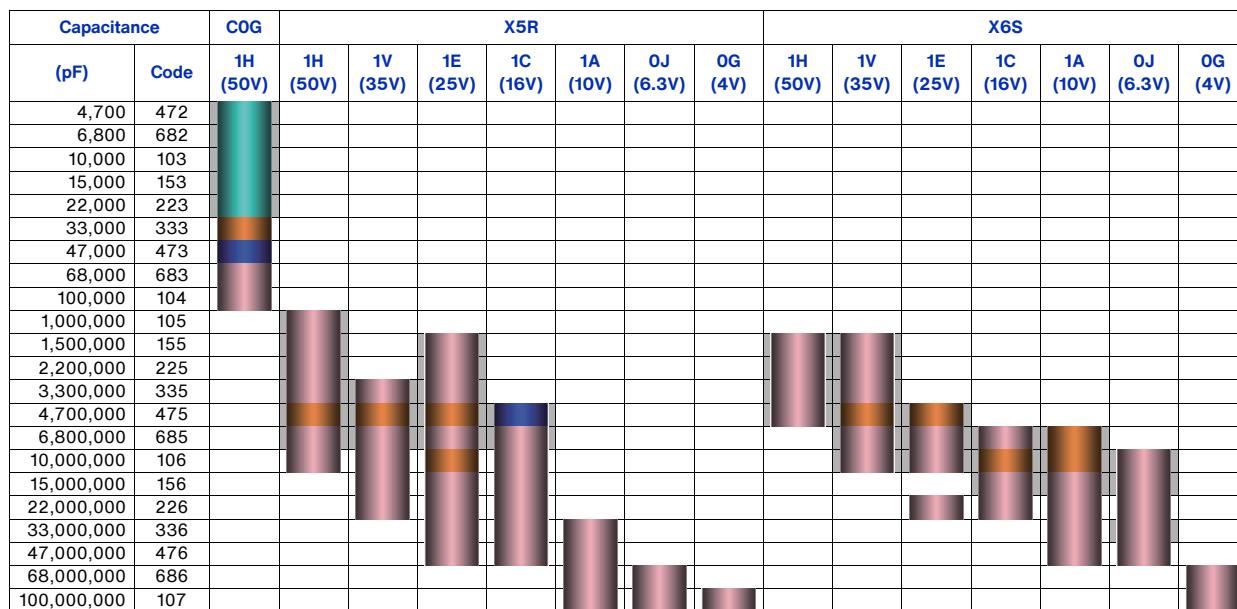
 For details such as the catalog numbers, please refer to the capacitance range table on page 16 and after.

MULTILAYER CERAMIC CHIP CAPACITORS



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.

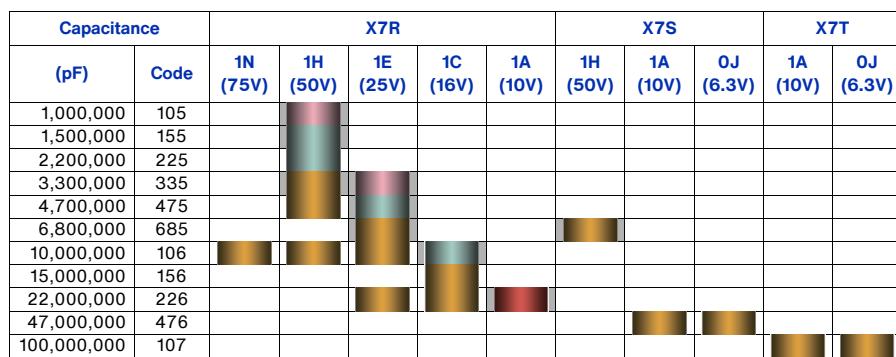
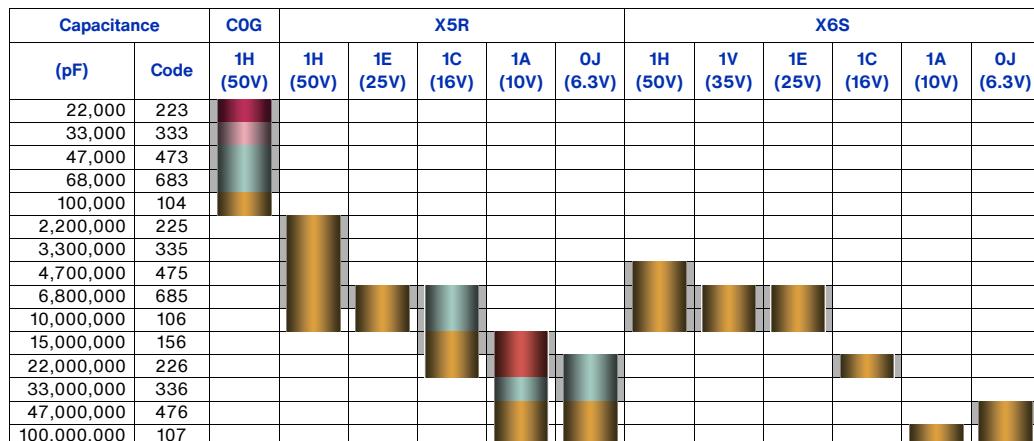
■ Click the charts for details.

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

MULTILAYER CERAMIC CHIP CAPACITORS

Capacitance range chart

C3225 [1210 inch]



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

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

Click the charts for details.

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

MULTILAYER CERAMIC CHIP CAPACITORS

Capacitance range chart

C4532 [1812 inch]

Capacitance (pF)	Code	X5R				X6S		X7R		
		1H (50V)	1H (50V)	1E (25V)	1C (16V)	1A (10V)	OJ (6.3V)	OJ (6.3V)	1H (50V)	1E (25V)
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.

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		
	1608	0.80±0.10	±0.25pF	C1005C0G1H010C050BA	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		
	1608	0.80±0.10	±0.25pF	C1005C0G1H020C050BA	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		
	1608	0.80±0.10	±0.25pF	C1005C0G1H030C050BA	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		
	1608	0.80±0.10	±0.25pF	C1005C0G1H040C050BA	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		
	1608	0.80±0.10	±0.25pF	C1005C0G1H050C050BA	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		
	1608	0.80±0.10	±0.50pF	C1005C0G1H060D050BA	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		
	1608	0.80±0.10	±0.50pF	C1005C0G1H070D050BA	C1608C0G1H070C080AA	

■ 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			C0402C0G1C080D020BC
	0603	0.30±0.03	±0.50pF	C0603C0G1H080D030BA	C0603C0G1E080D030BA	
	1005	0.50±0.05	±0.25pF	C1005C0G1H080C050BA		
			±0.50pF	C1005C0G1H080D050BA		
9 pF	1608	0.80±0.10	±0.25pF	C1608C0G1H080C080AA		
			±0.50pF	C1608C0G1H080D080AA		
	0402	0.20±0.02	±0.50pF			C0402C0G1C090D020BC
	0603	0.30±0.03	±0.50pF	C0603C0G1H090D030BA	C0603C0G1E090D030BA	
10 pF	1005	0.50±0.05	±0.25pF	C1005C0G1H090C050BA		
			±0.50pF	C1005C0G1H090D050BA		
	1608	0.80±0.10	±0.25pF	C1608C0G1H090C080AA		
			±0.50pF	C1608C0G1H090D080AA		
15 pF	0402	0.20±0.02	±0.50pF			C0402C0G1C100D020BC
	0603	0.30±0.03	±0.50pF	C0603C0G1H100D030BA	C0603C0G1E100D030BA	
	1005	0.50±0.05	±0.25pF	C1005C0G1H100C050BA		
			±0.50pF	C1005C0G1H100D050BA		
22 pF	1608	0.80±0.10	±0.25pF	C1608C0G1H100C080AA		
			±0.50pF	C1608C0G1H100D080AA		
	0402	0.20±0.02	±10%			C0402C0G1C150K020BC
			±5%			C0402C0G1C150J020BC
22 pF	0603	0.30±0.03	±10%	C0603C0G1H150K030BA	C0603C0G1E150K030BA	
			±5%	C0603C0G1H150J030BA	C0603C0G1E150J030BA	
	1005	0.50±0.05	±1%	C1005C0G1H150F050BA		
			±2%	C1005C0G1H150G050BA		
22 pF			±5%	C1005C0G1H150J050BA		
	1608	0.80±0.10	±1%	C1608C0G1H150F080AA		
			±2%	C1608C0G1H150G080AA		
			±5%	C1608C0G1H150J080AA		
22 pF	0402	0.20±0.02	±10%			C0402C0G1C220K020BC
			±5%			C0402C0G1C220J020BC
	0603	0.30±0.03	±10%	C0603C0G1H220K030BA	C0603C0G1E220K030BA	
			±5%	C0603C0G1H220J030BA	C0603C0G1E220J030BA	
22 pF	1005	0.50±0.05	±1%	C1005C0G1H220F050BA		
			±2%	C1005C0G1H220G050BA		
			±5%	C1005C0G1H220J050BA		
	1608	0.80±0.10	±1%	C1608C0G1H220F080AA		
22 pF			±2%	C1608C0G1H220G080AA		
			±5%	C1608C0G1H220J080AA		

■ 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		
	1608	0.80±0.10	±5%	C1005C0G1H330J050BA		
			±1%	C1608C0G1H330F080AA		
	0402	0.20±0.02	±2%	C1608C0G1H330G080AA		
			±5%	C1608C0G1H330J080AA		
47 pF	0402	0.20±0.02	±10%			C0402C0G1C470K020BC
			±5%			C0402C0G1C470J020BC
	0603	0.30±0.03	±10%	C0603C0G1H470K030BA	C0603C0G1E470K030BA	
			±5%	C0603C0G1H470J030BA	C0603C0G1E470J030BA	
	1005	0.50±0.05	±1%	C1005C0G1H470F050BA		
			±2%	C1005C0G1H470G050BA		
	1608	0.80±0.10	±5%	C1005C0G1H470J050BA		
			±1%	C1608C0G1H470F080AA		
	0402	0.20±0.02	±2%	C1608C0G1H470G080AA		
			±5%	C1608C0G1H470J080AA		
68 pF	0402	0.20±0.02	±10%			C0402C0G1C680K020BC
			±5%			C0402C0G1C680J020BC
	0603	0.30±0.03	±10%	C0603C0G1H680K030BA	C0603C0G1E680K030BA	
			±5%	C0603C0G1H680J030BA	C0603C0G1E680J030BA	
	1005	0.50±0.05	±1%	C1005C0G1H680F050BA		
			±2%	C1005C0G1H680G050BA		
	1608	0.80±0.10	±5%	C1005C0G1H680J050BA		
			±1%	C1608C0G1H680F080AA		
	0402	0.20±0.02	±2%	C1608C0G1H680G080AA		
			±5%	C1608C0G1H680J080AA		
100 pF	0402	0.20±0.02	±10%			C0402C0G1C101K020BC
			±5%			C0402C0G1C101J020BC
	0603	0.30±0.03	±10%	C0603C0G1H101K030BA	C0603C0G1E101K030BA	
			±5%	C0603C0G1H101J030BA	C0603C0G1E101J030BA	
	1005	0.50±0.05	±1%	C1005C0G1H101F050BA		
			±2%	C1005C0G1H101G050BA		
	1608	0.80±0.10	±5%	C1005C0G1H101J050BA		
			±1%	C1608C0G1H101F080AA		
	0402	0.20±0.02	±10%	C1608C0G1H101G080AA		
			±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%	C1005COG1H151F050BA	
			±10%	C1005COG1H151K050BA	
			±2%	C1005COG1H151G050BA	
			±5%	C1005COG1H151J050BA	
			±1%	C1608COG1H151F080AA	
	1608	0.80±0.10	±10%	C1608COG1H151K080AA	
			±2%	C1608COG1H151G080AA	
			±5%	C1608COG1H151J080AA	
			±1%	C1005COG1H221F050BA	
			±10%	C1005COG1H221K050BA	
220 pF	1005	0.50±0.05	±2%	C1005COG1H221G050BA	
			±5%	C1005COG1H221J050BA	
			±1%	C1608COG1H221F080AA	
			±10%	C1608COG1H221K080AA	
			±2%	C1608COG1H221G080AA	
	1608	0.80±0.10	±5%	C1608COG1H221J080AA	
			±1%	C1005COG1H331F050BA	
			±10%	C1005COG1H331K050BA	
			±2%	C1005COG1H331G050BA	
			±5%	C1005COG1H331J050BA	
330 pF	1005	0.50±0.05	±1%	C1608COG1H331F080AA	
			±10%	C1608COG1H331K080AA	
			±2%	C1608COG1H331G080AA	
			±5%	C1608COG1H331J080AA	
			±1%	C1005COG1H471F050BA	
	1608	0.80±0.10	±10%	C1005COG1H471K050BA	
			±2%	C1005COG1H471G050BA	
			±5%	C1005COG1H471J050BA	
			±1%	C1608COG1H471F080AA	
			±10%	C1608COG1H471K080AA	
470 pF	1005	0.50±0.05	±2%	C1608COG1H471G080AA	
			±5%	C1608COG1H471J080AA	
			±1%	C1005COG1H681F050BA	
			±10%	C1005COG1H681K050BA	
			±2%	C1005COG1H681G050BA	
	1608	0.80±0.10	±5%	C1005COG1H681J050BA	
			±1%	C1608COG1H681F080AA	
			±10%	C1608COG1H681K080AA	
			±2%	C1608COG1H681G080AA	
			±5%	C1608COG1H681J080AA	
680 pF	1005	0.50±0.05	±1%	C1005COG1H681F050BA	
			±10%	C1005COG1H681K050BA	
			±2%	C1005COG1H681G050BA	
			±5%	C1005COG1H681J050BA	
	1608	0.80±0.10	±1%	C1608COG1H681F080AA	
			±10%	C1608COG1H681K080AA	
			±2%	C1608COG1H681G080AA	
			±5%	C1608COG1H681J080AA	

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 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
1 nF	1005	0.50±0.05	±1%	C1005C0G1H02F050BA	
			±10%	C1005C0G1H02K050BA	
			±2%	C1005C0G1H102G050BA	
			±5%	C1005C0G1H102J050BA	C1005C0G1E102J050BA
			±1%	C1608C0G1H102F080AA	
	1608	0.80±0.10	±10%	C1608C0G1H102K080AA	
			±2%	C1608C0G1H102G080AA	
			±5%	C1608C0G1H102J080AA	
			±10%	C2012C0G1H102K060AA	
			±5%	C2012C0G1H102J060AA	
1.5 nF	1608	0.80±0.10	±5%	C1608C0G1H152J080AA	
			±10%	C2012C0G1H152K060AA	
			±5%	C2012C0G1H152J060AA	
			±10%	C1608C0G1H222K080AA	
			±5%	C1608C0G1H222J080AA	
	2012	0.60±0.15	±10%	C2012C0G1H222K060AA	
			±5%	C2012C0G1H222J060AA	
			±5%	C2012C0G1H222J085AA	
			±10%	C1608C0G1H332K080AA	
			±5%	C1608C0G1H332J080AA	
3.3 nF	1608	0.80±0.10	±10%	C2012C0G1H332K060AA	
			±5%	C2012C0G1H332J060AA	
			±5%	C2012C0G1H332J125AA	
			±10%	C1608C0G1H472K080AA	
			±5%	C1608C0G1H472J080AA	C1608C0G1E472J080AA
	2012	0.60±0.15	±10%	C2012C0G1H472K060AA	
			±5%	C2012C0G1H472J060AA	
			±10%	C3216C0G1H472K060AA	
			±5%	C3216C0G1H472J060AA	
			±10%	C3216C0G1H472K080AA	
4.7 nF	3216	0.60±0.15	±5%	C3216C0G1H472J080AA	

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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%	C1608C0G1H682K080AA		
			±5%	C1608C0G1H682J080AA	C1608C0G1E682J080AA	
		0.60±0.15	±10%	C2012C0G1H682K060AA		
	2012	0.60±0.15	±5%	C2012C0G1H682J060AA		
			±10%	C3216C0G1H682K060AA		
		0.60±0.15	±5%	C3216C0G1H682J060AA		
10 nF	1608	0.80±0.10	±10%	C1608C0G1H103K080AA	C1608C0G1V103K080AC	
			±5%	C1608C0G1H103J080AA	C1608C0G1V103J080AC	C1608C0G1E103J080AA
	2012	0.60±0.15	±10%	C2012C0G1H103K060AA		
			±5%	C2012C0G1H103J060AA	C2012C0G1E103J060AA	
		0.60±0.15	±10%	C3216C0G1H103K060AA		
		0.60±0.15	±5%	C3216C0G1H103J060AA		
15 nF	1608	0.80±0.10	±10%	C1608C0G1V153K080AC		
			±5%	C1608C0G1V153J080AC		
	2012	0.85±0.15	±10%	C2012C0G1H153K085AA		
			±5%	C2012C0G1H153J085AA		
		0.60±0.15	±10%	C3216C0G1H153K060AA		
		0.60±0.15	±5%	C3216C0G1H153J060AA		
18 nF	1608	0.80±0.10	±10%	C1608C0G1V183K080AC		
			±5%	C1608C0G1V183J080AC		
	2012	0.60±0.15	±10%	C2012C0G1V223K060AC		
			±5%	C2012C0G1V223J060AC		
		1.25±0.20	±10%	C2012C0G1H223K125AA		
		1.25±0.20	±5%	C2012C0G1H223J125AA	C2012C0G1E223J125AA	
22 nF	3216	0.60±0.15	±10%	C3216C0G1H223K060AA		
			±5%	C3216C0G1H223J060AA		
	3225	1.25±0.20	±10%	C3225C0G1H223K125AA		
			±5%	C3225C0G1H223J125AA		
		1.25±0.20	±10%	C3225C0G1H333K125AA		
		1.25±0.20	±5%	C3225C0G1H333J125AA	C2012C0G1E333J125AA	
33 nF	3216	0.85±0.15	±10%	C3216C0G1H333K085AA		
			±5%	C3216C0G1H333J085AA		
	3225	1.60±0.20	±10%	C3225C0G1H333K160AA		
			±5%	C3225C0G1H333J160AA		
		1.60±0.20	±10%	C3216C0G1H473K115AA		
		1.60±0.20	±5%	C3216C0G1H473J115AA		
47 nF	3225	2.00±0.20	±10%	C3225C0G1H473K200AA		
			±5%	C3225C0G1H473J200AA		
	4532	1.60±0.20	±10%	C4532C0G1H473K160KA		
			±5%	C4532C0G1H473J160KA		
		1.60±0.20	±10%	C3216C0G1H683K160AA		
		1.60±0.20	±5%	C3216C0G1H683J160AA		
68 nF	3225	2.00±0.20	±10%	C3225C0G1H683K200AA		
			±5%	C3225C0G1H683J200AA		
	4532	1.60±0.20	±10%	C4532C0G1H683K160KA		
			±5%	C4532C0G1H683J160KA		
		1.60±0.20	±10%	C3216C0G1H104K160AA		
		1.60±0.20	±5%	C3216C0G1H104J160AA		
100 nF	3225	2.50±0.30	±10%	C3225C0G1H104K250AA		
			±5%	C3225C0G1H104J250AA		
	4532	2.00±0.20	±10%	C4532C0G1H104K200KA		
			±5%	C4532C0G1H104J200KA		
		2.00±0.20	±10%	C4532C0G1H104K250KA		
150 nF	4532	2.50±0.30	±10%	C4532C0G1H154K250KA		
			±5%	C4532C0G1H154J250KA		
220 nF	4532	3.20±0.30	±10%	C4532C0G1H224K320KA		
			±5%	C4532C0G1H224J320KA		

■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%	C0402X5R1C101K020BC		
			±20%	C0402X5R1C101M020BC		
	0603	0.30±0.03	±10%	C0603X5R1E101K030BA		
			±20%	C0603X5R1E101M030BA		
150 pF	0402	0.20±0.02	±10%	C0402X5R1C151K020BC		
			±20%	C0402X5R1C151M020BC		
	0603	0.30±0.03	±10%	C0603X5R1E151K030BA		
			±20%	C0603X5R1E151M030BA		
220 pF	0402	0.20±0.02	±10%	C0402X5R1C221K020BC		
			±20%	C0402X5R1C221M020BC		
	0603	0.30±0.03	±10%	C0603X5R1E221K030BA		
			±20%	C0603X5R1E221M030BA		
330 pF	1005	0.50±0.05	±10%	C1005X5R1H221K050BA		
			±20%	C1005X5R1H221M050BA		
	0402	0.20±0.02	±10%	C0402X5R1C331K020BC		
			±20%	C0402X5R1C331M020BC		
470 pF	0603	0.30±0.03	±10%	C0603X5R1E331K030BA		
			±20%	C0603X5R1E331M030BA		
	1005	0.50±0.05	±10%	C1005X5R1H331K050BA		
			±20%	C1005X5R1H331M050BA		
680 pF	0402	0.20±0.02	±10%	C0402X5R1C471K020BC		
			±20%	C0402X5R1C471M020BC		
	0603	0.30±0.03	±10%	C0603X5R1E471K030BA		
			±20%	C0603X5R1E471M030BA		
1 nF	1005	0.50±0.05	±10%	C1005X5R1H471K050BA		
			±20%	C1005X5R1H471M050BA		
	0603	0.30±0.03	±10%	C0603X5R1E102K030BA		
			±20%	C0603X5R1E102M030BA		
1.5 nF	1608	0.80±0.10	±10%	C1608X5R1H102K080AA		
			±20%	C1608X5R1H102M080AA		
	0603	0.30±0.03	±10%	C0603X5R1E152K030BA		
			±20%	C0603X5R1E152M030BA		
1005	0.50±0.05		±10%	C1005X5R1H152K050BA		
			±20%	C1005X5R1H152M050BA		

■ 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 nF	0603	0.30±0.03	±10% ±20%	C0603X5R1E222K030BA C0603X5R1E222M030BA			
	1005	0.50±0.05	±10% ±20%	C1005X5R1H222M050BA			
	1608	0.80±0.10	±10%	C1608X5R1H222K080AA			
3.3 nF	0603	0.30±0.03	±10% ±20%	C0603X5R1E332K030BA C0603X5R1E332M030BA			
	1005	0.50±0.05	±10% ±20%	C1005X5R1H332M050BA			
	1608	0.80±0.10	±10%	C1608X5R1H472K080AA			
4.7 nF	0603	0.30±0.03	±10% ±20%	C0603X5R1C472K030BA C0603X5R1C472M030BA			
	1005	0.50±0.05	±10% ±20%	C1005X5R1H472M050BA			
	1608	0.80±0.10	±10%	C1608X5R1H682K080AA			
6.8 nF	1005	0.50±0.05	±10% ±20%	C1005X5R1H682M050BA			
	0603	0.30±0.03	±10% ±20%	C0603X5R1C103K030BA C0603X5R1C103M030BA			
	1608	0.80±0.10	±10%	C1608X5R1H103M080AA			
10 nF	1005	0.50±0.05	±10% ±20%	C1005X5R1H103K050BB C1005X5R1H103M050BB	C1005X5R1E103K050BA	C1005X5R1E103M050BA	
	0603	0.30±0.03	±10% ±20%	C1608X5R1H103K080AA			
	1608	0.80±0.10	±10% ±20%	C1608X5R1H103M080AA			
15 nF	1005	0.50±0.05	±10% ±20%	C1005X5R1H153K050BB C1005X5R1H153M050BB	C1005X5R1E153K050BA	C1005X5R1C153K050BA	
	1608	0.80±0.10	±10% ±20%	C1608X5R1H153K080AA C1608X5R1H153M080AA	C1005X5R1E153M050BA	C1005X5R1C153M050BA	
	0603	0.30±0.03	±10% ±20%	C0603X5R1E223K030BB C0603X5R1E223M030BB			
22 nF	1005	0.50±0.05	±10% ±20%	C1005X5R1H223K050BB C1005X5R1H223M050BB	C1005X5R1E223K050BA	C1005X5R1C223K050BA	
	1608	0.80±0.10	±10% ±20%	C1608X5R1H223M080AA	C1005X5R1E223M050BA	C1005X5R1C223M050BA	
	0603	0.30±0.03	±10% ±20%	C1005X5R1H333K050BB C1005X5R1H333M050BB	C1005X5R1E333K050BA	C1005X5R1C333K050BA	
33 nF	1005	0.50±0.05	±10% ±20%	C1005X5R1H333K050BB C1005X5R1H333M050BB	C1005X5R1E333M050BA	C1005X5R1C333M050BA	
	1608	0.80±0.10	±10% ±20%	C1608X5R1H333K080AA C1608X5R1H333M080AA			
	0603	0.30±0.03	±10% ±20%	C0603X5R1E473K030BB C0603X5R1E473M030BB			
47 nF	1005	0.50±0.05	±10% ±20%	C1005X5R1H473K050BB C1005X5R1H473M050BB	C1005X5R1E473K050BA	C1005X5R1C473K050BA	
	1608	0.80±0.10	±10% ±20%	C1608X5R1H473M080AA C1608X5R1H473M080AA	C1005X5R1E473M050BA	C1005X5R1C473M050BA	
	0603	0.30±0.03	±10% ±20%	C1005X5R1H683K050BB C1005X5R1H683M050BB	C1005X5R1E683K050BA	C1005X5R1C683K050BA	
68 nF	1005	0.50±0.05	±10% ±20%	C1005X5R1H683M050BB C1005X5R1H683M050BB	C1005X5R1E683M050BA	C1005X5R1C683M050BA	
	1608	0.80±0.10	±10% ±20%	C1608X5R1H683M080AA C1608X5R1H683M080AA			
	0603	0.30±0.03	±10% ±20%	C0603X5R1E104K030BB C0603X5R1E104M030BB	C0603X5R1C104K030BA	C0603X5R1C104M030BA	
100 nF	1005	0.50±0.05	±10% ±20%	C1005X5R1H104K050BB C1005X5R1H104M050BB	C1005X5R1E104K050BA	C1005X5R1C104K050BA	
	1608	0.80±0.10	±10% ±20%	C1608X5R1H104M080AA C1608X5R1H104M080AA	C1005X5R1E104M050BA	C1005X5R1C104M050BA	
	0603	0.30±0.03	±10% ±20%	C0603X5R1E154K030BB C0603X5R1E154M030BB	C0603X5R1C154K030BA	C0603X5R1C154M030BA	
150 nF	1005	0.50±0.05	±10% ±20%	C1005X5R1H154K050BB C1005X5R1H154M050BB	C1005X5R1E154K050BA	C1005X5R1C154K050BA	
	1608	0.80±0.10	±10% ±20%	C1608X5R1H154M080AB C1608X5R1H154M080AB	C1608X5R1E154M080AA	C1608X5R1C154M050BA	
	0603	0.30±0.03	±10% ±20%	C0603X5R1E154K030BB C0603X5R1E154M030BB	C0603X5R1C154K030BA	C0603X5R1C154M030BA	

■ 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	0603	0.30±0.03	±10%				C0603X5R1C224K030BC
			±20%				C0603X5R1C224M030BC
	1005	0.30±0.05	±10%				C0603X5R1E224K030BC
			±20%				C0603X5R1E224M030BC
	1608	0.50±0.05	±10%				C1005X5R1E224K050BC
			±20%				C1005X5R1E224M050BC
	2012	0.80±0.10	±10%				C1608X5R1H224K080AB
			±20%				C1608X5R1H224M080AB
	1005	1.25±0.20	±10%				C1608X5R1E224M125AA
			±20%				C2012X5R1H224M125AA
330 nF	1005	0.50±0.05	±10%				C1005X5R1V334K050BC
			±20%				C1005X5R1V334M050BC
	1608	0.80±0.10	±10%				C1005X5R1V334K080AB
			±20%				C1005X5R1V334M080AB
	2012	1.25±0.20	±10%				C1608X5R1H334K125AA
			±20%				C2012X5R1H334M125AA
470 nF	1005	0.50±0.05	±10%				C1005X5R1V474K050BC
			±20%				C1005X5R1V474M050BC
	1608	0.80±0.10	±10%				C1608X5R1H474K080AB
			±20%				C1608X5R1H474M080AB
	2012	1.25±0.20	±10%				C2012X5R1H474K125AB
			±20%				C2012X5R1H474M125AB
680 nF	1005	0.50±0.05	±10%				C1005X5R1V684K050BC
			±20%				C1005X5R1V684M050BC
	1608	0.80±0.10	±10%				C1608X5R1H684K080AB
			±20%				C1608X5R1H684M080AB
	2012	1.25±0.20	±10%				C2012X5R1H684K125AB
			±20%				C2012X5R1H684M125AB
1 µF	1005	0.50±0.05	±10%				C1005X5R1V105K050BC
			±20%				C1005X5R1V105M050BC
	1608	0.80±0.10	±10%				C1608X5R1H105K080AB
			±20%				C1608X5R1V105M080AB
	2012	0.85±0.15	±10%				C2012X5R1H105K085AB
			±20%				C2012X5R1V105M085AB
	2012	1.25±0.20	±10%				C2012X5R1H105K125AB
			±20%				C2012X5R1H105M125AB
	3216	1.60±0.20	±10%				C3216X5R1H105K160AA
			±20%				C3216X5R1H105M160AA
1.5 µF	1005	0.50±0.05	±10%				C1005X5R1C155K050BC
			±20%				C1005X5R1C155M050BC
	1005	0.50±0.10	±10%				C1005X5R1E155K050BC
			±20%				C1005X5R1E155M050BC
	1608	0.80±0.10	±10%				C1608X5R1V155K080AC
			±20%				C1608X5R1V155M080AC
	2012	0.85±0.15	±10%				C2012X5R1E155K085AC
			±20%				C2012X5R1E155M085AC
	3216	1.25±0.20	±10%				C2012X5R1H155K125AB
			±20%				C2012X5R1V155M125AB
2.2 µF	1005	1.60±0.20	±10%				C3216X5R1H155K160AA
			±20%				C3216X5R1V155M160AA
	1005	0.50±0.05	±10%				C1005X5R1C225K050BC
			±20%				C1005X5R1C225M050BC
	1608	0.50±0.10	±10%				C1005X5R1V225K050BC
			±20%				C1005X5R1V225M050BC
	1608	0.50±0.15,-0.10	±10%				C1005X5R1V225K050BC
			±20%				C1005X5R1V225M050BC
	2012	0.85±0.15	±10%				C2012X5R1V225K085AC
			±20%				C2012X5R1V225M085AC
2.2 µF	2012	1.25±0.20	±10%				C2012X5R1H225K125AB
			±20%				C2012X5R1V225M125AB
	3216	1.60±0.20	±10%				C3216X5R1H225K160AB
			±20%				C3216X5R1V225M160AB
	3216	0.50±0.05	±10%				C3216X5R1E225K050BC
			±20%				C3216X5R1E225M050BC
	1005	0.50±0.10	±10%				C3216X5R1E225K050BC
			±20%				C3216X5R1E225M050BC
	1608	0.50±0.15,-0.10	±10%				C3216X5R1V225K050BC
			±20%				C3216X5R1V225M050BC
2.2 µF	1608	0.80±0.10	±10%				C3216X5R1V225K080AC
			±20%				C3216X5R1V225M080AC
	2012	0.85±0.15	±10%				C2012X5R1H225K085AB
			±20%				C2012X5R1V225M085AB
	2012	1.25±0.20	±10%				C2012X5R1H225K125AB
			±20%				C2012X5R1V225M125AB

■ 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%	C3216X5R1H225K160AB		C3216X5R1E225K160AA	
			±20%	C3216X5R1H225M160AB		C3216X5R1E225M160AA	
	3225	2.50±0.30	±10%	C3225X5R1H225K250AB			
			±20%	C3225X5R1H225M250AB			
3.3 µF	1608	0.80±0.10	±10%			C1608X5R1E335K080AC	C1608X5R1C335K080AC
			±20%			C1608X5R1E335M080AC	C1608X5R1C335M080AC
		0.80±0.20	±10%		C1608X5R1V335K080AC		
			±20%		C1608X5R1V335M080AC		
	2012	0.60±0.15	±10%			C2012X5R1E335K060AC	
			±20%			C2012X5R1C335M060AC	
		0.85±0.15	±10%	C2012X5R1E335K085AC		C2012X5R1C335K085AC	
			±20%	C2012X5R1E335M085AC		C2012X5R1C335M085AC	
4.7 µF	3216	1.25±0.20	±10%	C2012X5R1H335K125AB	C2012X5R1V335K125AC	C2012X5R1E335K125AB	C2012X5R1C335K125AC
			±20%	C2012X5R1H335M125AB	C2012X5R1V335M125AC	C2012X5R1E335M125AB	C2012X5R1C335M125AC
		1.60±0.20	±10%	C3216X5R1H335K160AB	C3216X5R1V335K160AB	C3216X5R1E335K160AA	
			±20%	C3216X5R1H335M160AB	C3216X5R1V335M160AB	C3216X5R1E335M160AA	
	3225	2.50±0.30	±10%	C3225X5R1H335K250AB			
			±20%	C3225X5R1H335M250AB			
		0.80±0.10	±10%		C1608X5R1E475K080AC	C1608X5R1C475K080AC	
			±20%		C1608X5R1E475M080AC	C1608X5R1C475M080AC	
	1608	0.80±0.20	±10%	C1608X5R1V475K080AC			
			±20%	C1608X5R1V475M080AC			
		0.60±0.15	±10%			C2012X5R1C475K060AC	
			±20%			C2012X5R1C475M060AC	
6.8 µF	2012	0.85±0.15	±10%	C2012X5R1E475K085AC		C2012X5R1C475K085AC	
			±20%	C2012X5R1E475M085AC		C2012X5R1C475M085AC	
		1.25±0.20	±10%	C2012X5R1H475K125AB	C2012X5R1V475K125AC	C2012X5R1E475K125AB	C2012X5R1C475K125AC
			±20%	C2012X5R1H475M125AB	C2012X5R1V475M125AC	C2012X5R1E475M125AB	C2012X5R1C475M125AC
	3216	0.85±0.15	±10%	C3216X5R1H475K085AB	C3216X5R1V475K085AB	C3216X5R1E475K085AB	
			±20%	C3216X5R1H475M085AB	C3216X5R1V475M085AB	C3216X5R1E475M085AB	
		1.15±0.15	±10%		C3216X5R1E475K115AB		C3216X5R1C475K115AA
			±20%		C3216X5R1E475M115AB		C3216X5R1C475M115AA
	3225	1.60±0.20	±10%	C3216X5R1H475K160AB	C3216X5R1V475K160AB	C3216X5R1E475K160AA	
			±20%	C3216X5R1H475M160AB	C3216X5R1V475M160AB	C3216X5R1E475M160AA	
		2.50±0.30	±10%	C3225X5R1H475K250AB			
			±20%	C3225X5R1H475M250AB			
10 µF	1608	0.80±0.20	±10%		C1608X5R1E685K080AC	C1608X5R1C685K080AB	
			±20%		C1608X5R1E685M080AC	C1608X5R1C685M080AB	
		0.85±0.15	±10%			C2012X5R1C685M085AC	
			±20%			C2012X5R1C685M085AC	
	2012	1.25±0.20	±10%	C2012X5R1V685K125AC		C2012X5R1E685K125AC	
			±20%	C2012X5R1V685M125AC		C2012X5R1E685M125AC	
		1.60±0.20	±10%	C3216X5R1H685K160AB	C3216X5R1V685K160AB	C3216X5R1E685K160AB	C3216X5R1C685K160AA
			±20%	C3216X5R1H685M160AB	C3216X5R1V685M160AB	C3216X5R1E685M160AB	C3216X5R1C685M160AA
	3225	2.00±0.20	±10%			C3225X5R1C685K200AA	
			±20%			C3225X5R1C685M200AA	
		2.50±0.30	±10%	C3225X5R1H685K250AB		C3225X5R1E685K250AA	
			±20%	C3225X5R1H685M250AB		C3225X5R1E685M250AA	
4532	4532	2.50±0.30	±10%	C4532X5R1H685K250KA			
			±20%	C4532X5R1H685M250KA			
		0.80±0.20	±10%		C1608X5R1E106M080AC	C1608X5R1C106M080AB	
			±20%		C1608X5R1E106M080AC	C1608X5R1C106M080AB	
	1608	0.85±0.15	±10%	C2012X5R1V106K085AC	C2012X5R1E106K085AC	C2012X5R1C106K085AC	
			±20%	C2012X5R1V106M085AC	C2012X5R1E106M085AC	C2012X5R1C106M085AC	
		1.25±0.20	±10%	C2012X5R1V106K125AC	C2012X5R1E106K125AC	C2012X5R1C106K125AC	
			±20%	C2012X5R1V106M125AC	C2012X5R1E106M125AC	C2012X5R1C106M125AC	
3216	1.25+0.25,-0.15	±10%	±10%	C2012X5R1H106K125AC		C3216X5R1E106K085AC	
			±20%			C3216X5R1E106M085AC	
	0.85±0.15	±10%	±10%			C3216X5R1E106M085AC	
			±20%			C3216X5R1E106M085AC	
3216	1.60±0.20	±10%	±10%	C3216X5R1H106K160AB	C3216X5R1V106K160AB	C3216X5R1E106K160AB	C3216X5R1C106K160AA
			±20%	C3216X5R1H106M160AB	C3216X5R1V106M160AB	C3216X5R1E106M160AB	C3216X5R1C106M160AA

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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: 50V	Rated voltage Edc: 35V	Rated voltage Edc: 25V	Rated voltage Edc: 16V
10 µF	3225	2.00±0.20	±10%				C3225X5RIC106K200AA
			±20%				C3225X5RIC106M200AA
		2.50±0.30	±10%	C3225X5R1H106K250AB	C3225X5R1E106K250AA		
			±20%	C3225X5R1H106M250AB	C3225X5R1E106M250AA		
	4532	2.50±0.30	±10%			C4532X5R1E106K250KA	
			±20%			C4532X5R1E106M250KA	
		5750	2.30±0.20	±10%	C5750X5R1H106K230KA		
			±20%	C5750X5R1H106M230KA			
15 µF	3216	1.25±0.20	±20%		C2012X5R1V156M125AC	C2012X5R1E156M125AC	C2012X5R1C156M125AC
		1.60±0.20	±20%		C3216X5R1V156M160AC	C3216X5R1E156M160AB	C3216X5R1C156M160AB
		2.50±0.30	±20%				C3225X5R1C156M250AA
		4532	2.50±0.30	±20%		C4532X5R1E156M250KA	
	2012	2.80±0.30	±20%		C4532X5R1E156M280KA		
		0.85±0.15	±20%				C2012X5RIC226M085AC
		1.25±0.20	±10%				C2012X5R1C226K125AC
		1.60±0.20	±20%	C2012X5R1V226M125AC	C2012X5R1E226M125AC	C2012X5R1C226M125AC	
22 µF	3216	2.50±0.30	±20%		C3216X5R1V226M160AC	C3216X5R1E226M160AB	C3216X5R1C226M160AB
		2.50±0.30	±20%				C3225X5R1C226K250AA
		4532	2.50±0.30	±20%		C4532X5R1E226M250KA	
		5750	2.30±0.20	±20%		C5750X5R1E226M230KA	
	3225	2.50±0.30	±20%		C5750X5R1E226M250KA		
		2.00±0.20	±20%				C4532X5R1C226M200KA
		4532	2.30±0.20	±20%		C4532X5R1C226M230KA	
		5750	2.50±0.30	±20%			
33 µF	3216	1.60±0.20	±20%		C3216X5R1E336M160AC	C3216X5R1C336M160AB	
	4532	2.50±0.30	±20%			C4532X5R1C336M250KA	
	5750	2.00±0.20	±20%			C5750X5R1C336M200KA	
	3216	1.60±0.20	±20%		C3216X5R1E476M160AC	C3216X5R1C476M160AB	
47 µF	5750	2.30±0.20	±20%			C5750X5R1C476M230KA	

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%	C0402X5R1A102K020BC	C0402X5R0J102K020BC	C0402X5R0G102K020BC
			±20%	C0402X5R1A102M020BC	C0402X5R0J102M020BC	C0402X5R0G102M020BC
1.5 nF	0402	0.20±0.02	±10%	C0402X5R1A152K020BC	C0402X5R0J152K020BC	C0402X5R0G152K020BC
			±20%	C0402X5R1A152M020BC	C0402X5R0J152M020BC	C0402X5R0G152M020BC
2.2 nF	0402	0.20±0.02	±10%	C0402X5R1A222K020BC	C0402X5R0J222K020BC	C0402X5R0G222K020BC
			±20%	C0402X5R1A222M020BC	C0402X5R0J222M020BC	C0402X5R0G222M020BC
6.8 nF	0603	0.30±0.03	±10%	C0603X5R1A682K030BA		
			±20%	C0603X5R1A682M030BA		
10 nF	0603	0.30±0.03	±10%	C0603X5R1A103K030BA		
			±20%	C0603X5R1A103M030BA		
15 nF	0603	0.30±0.03	±10%	C0603X5R1A153K030BC	C0603X5R0J153K030BA	
			±20%	C0603X5R1A153M030BC	C0603X5R0J153M030BA	

■ 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: 10V	Rated voltage Edc: 6.3V	Rated voltage Edc: 4V
47 nF	1005	0.50±0.05	±10%	C1005X5R1A473K050BA		
			±20%	C1005X5R1A473M050BA		
68 nF	1005	0.50±0.05	±10%	C1005X5R1A683K050BA		
			±20%	C1005X5R1A683M050BA		
100 nF	0603	0.30±0.03	±10%	C0603X5R1A104K030BC		
			±20%	C0603X5R1A104M030BC		
	1005	0.50±0.05	±10%	C1005X5R1A104K050BA	C1005X5R0J104K050BA	
			±20%	C1005X5R1A104M050BA		
150 nF	0603	0.30±0.03	±10%	C0603X5R1A154K030BB	C0603X5R0J154K030BB	
			±20%	C0603X5R1A154M030BB	C0603X5R0J154M030BB	
220 nF	0603	0.30±0.03	±10%	C0603X5R1A224K030BB	C0603X5R0J224K030BB	
			±20%	C0603X5R1A224M030BB	C0603X5R0J224M030BB	
330 nF	0603	0.30±0.03	±20%		C0603X5R0JS34M030BC	
			±10%	C0603X5R1A334K030BC		
	0603	0.30±0.05	±20%	C0603X5R1A334M030BC		
			±20%		C0603X5R0J474M030BC	
470 nF	0603	0.30±0.05	±20%	C0603X5R1A474M030BC		
			±10%	C1608X5R1A474K080AA		
	1608	0.80+0.15,-0.10	±10%		C1605X5R1A684K050BB	
			±20%		C1605X5R1A684M050BB	C1005X5R0J684M050BB
680 nF	1005	0.50±0.05	±10%		C1608X5R1A684K080AC	
			±20%		C1608X5R1A684M080AC	
	1608	0.80+0.15,-0.10	±10%		C1608X5R1A105K080AC	
			±20%		C1608X5R1A105M080AC	
1 µF	1608	0.80+0.15,-0.10	±10%		C1005X5R1A155K050BC	C1005X5R0J155K050BB
			±20%		C1005X5R1A155M050BC	C1005X5R0J155M050BB
2.2 µF	1005	0.50±0.05	±10%	C1005X5R1A225K050BC	C1005X5R0J225K050BC	C1005X5R0G225K050BB
			±20%		C1005X5R1A225M050BC	C1005X5R0J225M050BC
	2012	0.85±0.15	±10%		C2012X5R1A225K085AA	C2012X5R0J225K085AA
			±20%		C2012X5R1A225M085AA	C2012X5R0J225M085AA
3.3 µF	1005	0.50±0.10	±10%	C1005X5R1A335K050BC	C1005X5R0J335K050BC	C1005X5R0G335K050BB
			±20%		C1005X5R1A335M050BC	C1005X5R0J335M050BC
	2012	1.25±0.20	±10%		C2012X5R1A335K125AA	
			±20%		C2012X5R1A335M125AA	
4.7 µF	1005	0.50+0.15,-0.10	±10%	C1005X5R1A475K050BC	C1005X5R0J475K050BC	C1005X5R0G475K050BB
			±20%		C1005X5R1A475M050BC	C1005X5R0J475M050BC

■ 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: 10V	Rated voltage Edc: 6.3V	Rated voltage Edc: 4V
4.7 µF	2012	0.60±0.15	±10%	C2012X5R1A475K060AB		
			±20%	C2012X5R1A475M060AB		
	1608	1.25±0.20	±10%	C2012X5R1A475K125AA		
			±20%	C2012X5R1A475M125AA		
6.8 µF	2012	0.80±0.10	±10%	C1608X5R1A685K080AC	C1608X5R0J685K080AB	
			±20%	C1608X5R1A685M080AC	C1608X5R0J685M080AB	
	1608	0.60±0.15	±10%	C2012X5R1A685K060AC		
			±20%	C2012X5R1A685M060AC		
10 µF	2012	0.85±0.15	±10%	C2012X5R1A685K085AB	C2012X5R0J685K085AB	
			±20%	C2012X5R1A685M085AB	C2012X5R0J685M085AB	
	1608	0.80±0.10	±10%	C1608X5R1A106K080AC	C1608X5R0J106K080AB	
			±20%	C1608X5R1A106M080AC	C1608X5R0J106M080AB	
15 µF	2012	0.85±0.15	±10%	C2012X5R1A106K085AB	C2012X5R0J106K085AB	
			±20%	C2012X5R1A106M085AB	C2012X5R0J106M085AB	
	1608	1.25±0.20	±10%	C2012X5R1A156M085AC	C2012X5R0J156M085AB	
			±20%	C2012X5R1A156M085AC	C2012X5R0J156M085AB	
22 µF	2012	2.30±0.20	±10%	C3225X5R1A226M230AA		
			±20%	C3225X5R1A226M230AA		
	1608	0.80±0.20	±10%	C1608X5R1A226M080AC	C1608X5R0J226M080AC	C1608X5R0G226M080AA
			±20%	C1608X5R1A226M080AC	C1608X5R0J226M080AC	C1608X5R0G226M080AA
33 µF	2012	0.85±0.15	±10%	C2012X5R1A226K125AB	C2012X5R0J226K125AB	
			±20%	C2012X5R1A226K125AB	C2012X5R0J226K125AB	
	3225	1.25±0.20	±10%	C2012X5R1A226M125AB	C2012X5R0J226M125AB	
			±20%	C2012X5R1A226M125AB	C2012X5R0J226M125AB	
47 µF	3225	2.00±0.20	±10%	C3225X5R0J226K200AA		
			±20%	C3225X5R0J226M200AA		
	4532	2.30±0.20	±10%	C3225X5R1A226M230AA		
			±20%	C3225X5R1A226M230AA		
68 µF	3225	1.25±0.20	±10%	C3225X5R1A336M125AC	C3225X5R0J336M125AC	
			±20%	C3225X5R1A336M125AC	C3225X5R0J336M125AC	
	4532	1.60±0.20	±10%	C3225X5R1A336M160AB	C3225X5R0J336M160AB	
			±20%	C3225X5R1A336M160AB	C3225X5R0J336M160AB	
100 µF	3225	2.00±0.20	±10%	C3225X5R1A476M250AC	C3225X5R0J476M250AC	
			±20%	C3225X5R1A476M250AC	C3225X5R0J476M250AC	
	4532	2.50±0.30	±10%	C4532X5R0J476M250KA	C4532X5R0J476M250KA	
			±20%	C4532X5R0J476M250KA	C4532X5R0J476M250KA	
3216	4532	2.30±0.20	±10%	C4532X5R1A476M280KA	C4532X5R0J476M280KA	
			±20%	C4532X5R1A476M280KA	C4532X5R0J476M280KA	
	5750	1.25±0.20	±10%	C3216X5R1A686M160AC	C3216X5R0J686M160AB	
			±20%	C3216X5R1A686M160AC	C3216X5R0J686M160AB	
3216	5750	1.60±0.30,-0.10	±10%	C3216X5R1A686M160AC	C3216X5R0J686M160AB	
			±20%	C3216X5R1A686M160AC	C3216X5R0J686M160AB	
	4532	2.80±0.30	±10%	C3216X5R1A686M160AC	C3216X5R0J686M160AB	
			±20%	C3216X5R1A686M160AC	C3216X5R0J686M160AB	
3225	4532	1.60±0.30,-0.10	±10%	C3225X5R1A107M160AC	C3225X5R0J107M160AB	C3225X5R0G107M160AB
			±20%	C3225X5R1A107M160AC	C3225X5R0J107M160AB	C3225X5R0G107M160AB
	5750	2.50±0.40,-0.30	±10%	C3225X5R1A107M250AC	C3225X5R0J107M250AB	
			±20%	C3225X5R1A107M250AC	C3225X5R0J107M250AB	
4532	5750	2.80±0.30	±10%	C4532X5R1A107M280KC	C4532X5R0J107M280KA	
			±20%	C4532X5R1A107M280KC	C4532X5R0J107M280KA	
	4532	2.80±0.30	±10%	C5750X5R1A107M280KC	C5750X5R0J107M280KA	
			±20%	C5750X5R1A107M280KC	C5750X5R0J107M280KA	

■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% ±20%	C0603X6S1E222K030BA C0603X6S1E222M030BA	C0603X6S1C222K030BA C0603X6S1C222M030BA	C0603X6S1C472K030BA C0603X6S1C472M030BA	
4.7 nF	0603	0.30±0.03	±10% ±20%	C1005X6S1H103K050BB C1005X6S1H103M050BB			
10 nF	1005	0.50±0.05	±10% ±20%	C1005X6S1H153K050BB C1005X6S1H153M050BB			
15 nF	1005	0.50±0.05	±10% ±20%	C1005X6S1H153M050BB			
	0603	0.30±0.03	±10% ±20%			C0603X6S1C223K030BC C0603X6S1C223M030BC	
22 nF	1005	0.50±0.05	±10% ±20%	C1005X6S1H223K050BB C1005X6S1H223M050BB			
33 nF	1005	0.50±0.05	±10% ±20%	C1005X6S1H333K050BB C1005X6S1H333M050BB			
	0603	0.30±0.03	±10% ±20%			C0603X6S1C473K030BC C0603X6S1C473M030BC	
47 nF	1005	0.50±0.05	±10% ±20%	C1005X6S1H473K050BB C1005X6S1H473M050BB			
68 nF	1005	0.50±0.05	±10% ±20%	C1005X6S1H683K050BB C1005X6S1H683M050BB	C1005X6S1V683K050BB C1005X6S1V683M050BB	C1005X6S1E683K050BC C1005X6S1E683M050BC	
	0603	0.30±0.03	±10% ±20%			C0603X6S1C104K030BC C0603X6S1C104M030BC	
100 nF	1005	0.50±0.05	±10% ±20%	C1005X6S1H104K050BB C1005X6S1H104M050BB	C1005X6S1V104K050BB C1005X6S1V104M050BB	C1005X6S1E104K050BB C1005X6S1E104M050BB	
	1005	0.50±0.05	±10% ±20%	C1005X6S1H154K050BB C1005X6S1H154M050BB		C1005X6S1E154K050BC C1005X6S1E154M050BC	C1005X6S1C154K050BB C1005X6S1C154M050BB
150 nF	1608	0.80±0.10	±10% ±20%	C1608X6S1H154K080AB C1608X6S1H154M080AB	C1608X6S1V154K080AB C1608X6S1V154M080AB		
	1005	0.50±0.05	±10% ±20%			C1005X6S1E224K050BC C1005X6S1E224M050BC	C1005X6S1C224K050BB C1005X6S1C224M050BB
220 nF	1608	0.80±0.10	±10% ±20%	C1608X6S1H224K080AB C1608X6S1H224M080AB	C1608X6S1V224K080AB C1608X6S1V224M080AB		
	1005	0.50±0.05	±10% ±20%			C1005X6S1C334K050BC C1005X6S1C334M050BC	
330 nF	1608	0.80±0.10	±10% ±20%	C1608X6S1H334K080AB C1608X6S1H334M080AB	C1608X6S1V334K080AB C1608X6S1V334M080AB	C1608X6S1E334K080AB C1608X6S1E334M080AB	
	1005	0.50±0.05	±10% ±20%			C1005X6S1C474K050BC C1005X6S1C474M050BC	
470 nF	1608	0.80±0.10	±10% ±20%	C1608X6S1H474K080AB C1608X6S1H474M080AB	C1608X6S1V474K080AB C1608X6S1V474M080AB	C1608X6S1E474K080AB C1608X6S1E474M080AB	
	2012	1.25±0.20	±10% ±20%	C2012X6S1H474M125AB C2012X6S1H684M125AB			
	1005	0.50±0.05	±10% ±20%			C1005X6S1C684K050BC C1005X6S1C684M050BC	
680 nF	1608	0.80±0.10	±10% ±20%	C1608X6S1H684K080AC C1608X6S1H684M080AC	C1608X6S1V684K080AB C1608X6S1V684M080AB	C1608X6S1E684K080AB C1608X6S1E684M080AB	C1608X6S1C684K080AC C1608X6S1C684M080AC
	2012	1.25±0.20	±10% ±20%	C2012X6S1H684M125AB C2012X6S1H684M125AB			
	1005	0.50±0.05	±10% ±20%			C1005X6S1C105K050BC C1005X6S1C105M050BC	
1 μF	1608	0.80±0.10	±10% ±20%	C1608X6S1H105K080AC C1608X6S1H105M080AC	C1608X6S1V105K080AB C1608X6S1V105M080AB	C1608X6S1E105K080AB C1608X6S1E105M080AB	C1608X6S1C105K080AC C1608X6S1C105M080AC
	0.85±0.15		±10% ±20%	C2012X6S1H105K085AB C2012X6S1H105M085AB	C2012X6S1V105K085AB C2012X6S1V105M085AB	C2012X6S1E105K085AB C2012X6S1E105M085AB	
	2012	1.25±0.20	±10% ±20%	C2012X6S1H105K125AB C2012X6S1H105M125AB			
	1005	0.50±0.15,-0.10	±10% ±20%			C1005X6S1C155K050BC C1005X6S1C155M050BC	
1.5 μF	1608	0.80±0.10	±10% ±20%			C1608X6S1C155K080AC C1608X6S1C155M080AC	
	2012	1.25±0.20	±10% ±20%	C2012X6S1H155K125AB C2012X6S1H155M125AB	C2012X6S1V155K125AB C2012X6S1V155M125AB	C2012X6S1E155K125AB C2012X6S1E155M125AB	
	3216	1.60±0.20	±10% ±20%	C3216X6S1H155M160AB C3216X6S1H155M160AB	C3216X6S1V155M160AB C3216X6S1V155M160AB		

■ 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: 50V	Rated voltage Edc: 35V	Rated voltage Edc: 25V	Rated voltage Edc: 16V
2.2 pF	1005	0.50±0.15,-0.10	±10%				C1005X6S1C225K050BC
			±20%				C1005X6S1C225M050BC
	1608	0.80±0.10	±10%				C1608X6S1C225K080AC
			±20%				C1608X6S1C225M080AC
	2012	0.85±0.15	±10%	C2012X6S1H225K085AC	C2012X6S1V225K085AB	C2012X6S1E225K085AB	C2012X6S1C225K085AB
			±20%	C2012X6S1H225M085AC	C2012X6S1V225M085AB	C2012X6S1E225M085AB	C2012X6S1C225M085AB
		1.25±0.20	±10%	C2012X6S1H225K125AB	C2012X6S1V225K125AB	C2012X6S1E225K125AC	C2012X6S1C225M125AC
			±20%	C2012X6S1H225M125AB	C2012X6S1V225M125AB	C2012X6S1E225M125AC	C2012X6S1C225M125AC
3.3 µF	3216	1.60±0.20	±10%	C3216X6S1H225K160AB	C3216X6S1V225K160AB	C3216X6S1E225M160AB	C3216X6S1C335K080AC
			±20%	C3216X6S1H225M160AB	C3216X6S1V225M160AB	C3216X6S1E225M160AB	C3216X6S1C335M080AC
	1608	0.80±0.20	±10%				C1608X6S1C335K080AC
			±20%				C1608X6S1C335M080AC
	2012	1.25±0.20	±10%	C2012X6S1H335K125AC	C2012X6S1V335K125AB	C2012X6S1E335K125AC	C2012X6S1C335K125AC
			±20%	C2012X6S1H335M125AC	C2012X6S1V335M125AB	C2012X6S1E335M125AC	C2012X6S1C335M125AC
	3216	1.60±0.20	±10%	C3216X6S1H335K160AB	C3216X6S1V335K160AB	C3216X6S1E335M160AB	C3216X6S1C335M160AB
			±20%	C3216X6S1H335M160AB	C3216X6S1V335M160AB	C3216X6S1E335M160AB	C3216X6S1C335M160AB
4.7 µF	1608	0.80±0.20	±10%				C1608X6S1C475K080AC
			±20%				C1608X6S1C475M080AC
	2012	0.85±0.15	±10%				C2012X6S1C475K085AC
			±20%				C2012X6S1C475M085AC
	3216	1.25±0.20	±10%	C2012X6S1H475K125AC	C2012X6S1V475K125AB	C2012X6S1E475K125AC	C2012X6S1C475K125AC
			±20%	C2012X6S1H475M125AC	C2012X6S1V475M125AB	C2012X6S1E475M125AC	C2012X6S1C475M125AC
	3225	0.85±0.15	±10%				C3216X6S1E475K085AC
			±20%				C3216X6S1E475M085AC
6.8 µF	3216	1.60±0.20	±10%	C3216X6S1H475K160AB	C3216X6S1V475K160AB	C3216X6S1E475K160AB	C3216X6S1C475M160AB
			±20%	C3216X6S1V475M085AC	C3216X6S1E475M085AB	C3216X6S1E475M085AB	C3216X6S1C475M085AB
	3225	2.50±0.30	±10%	C3225X6S1H475K250AC	C3225X6S1V475K250AC	C3225X6S1E475K250AC	C3225X6S1C475M250AC
			±20%	C3225X6S1V475M250AC	C3225X6S1E475M250AC	C3225X6S1E475M250AC	C3225X6S1C475M250AC
	2012	0.85±0.15	±10%				C2012X6S1C106K085AC
			±20%				C2012X6S1C106M085AC
	3216	1.25±0.20	±10%	C3216X6S1V685K160AC	C3216X6S1E685K160AB	C3216X6S1C685K160AC	C3216X6S1C685M160AC
			±20%	C3216X6S1V685M160AC	C3216X6S1E685M160AB	C3216X6S1C685M160AC	C3216X6S1C685M160AC
10 µF	3216	1.60±0.20	±10%	C3225X6S1H685K250AC	C3225X6S1V685K250AC	C3225X6S1E685K250AC	C3225X6S1C685M250AC
			±20%	C3225X6S1V685M250AC	C3225X6S1E685M250AC	C3225X6S1E685M250AC	C3225X6S1C685M250AC
	2012	0.85±0.15	±10%				C2012X6S1C106K085AC
			±20%				C2012X6S1C106M085AC
	3216	1.25±0.20	±10%				C2012X6S1C106K125AC
			±20%				C2012X6S1C106M125AC
	3225	2.50±0.30	±10%	C3225X6S1H106K250AC	C3225X6S1V106K250AC	C3225X6S1E106K250AC	C3225X6S1C106M250AC
			±20%	C3225X6S1V106M250AC	C3225X6S1E106M250AC	C3225X6S1E106M250AC	C3225X6S1C106M250AC
15 µF	2012	1.25±0.20	±10%				C2012X6S1C156M125AC
			±20%				C3216X6S1C156M160AC
22 µF	3216	1.60±0.20	±10%				C2012X6S1C226M125AC
			±20%				C3216X6S1C226M160AC
	3225	2.50±0.30	±10%				C3225X6S1C226M250AC
			±20%				C3225X6S1C226M250AC

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%	C0402X6S1A101K020BC	C0402X6S0J101K020BC	C0402X6S0G101K020BC
			±20%	C0402X6S1A101M020BC	C0402X6S0J101M020BC	C0402X6S0G101M020BC
150 pF	0402	0.20±0.02	±10%	C0402X6S1A151K020BC	C0402X6S0J151K020BC	C0402X6S0G151K020BC
			±20%	C0402X6S1A151M020BC	C0402X6S0J151M020BC	C0402X6S0G151M020BC
220 pF	0402	0.20±0.02	±10%	C0402X6S1A221K020BC	C0402X6S0J221K020BC	C0402X6S0G221K020BC
			±20%	C0402X6S1A221M020BC	C0402X6S0J221M020BC	C0402X6S0G221M020BC
330 pF	0402	0.20±0.02	±10%	C0402X6S1A331K020BC	C0402X6S0J331K020BC	C0402X6S0G331K020BC
			±20%	C0402X6S1A331M020BC	C0402X6S0J331M020BC	C0402X6S0G331M020BC

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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	C0603X6S0G222M030BA
			±20%	C0603X6S1A222M030BA	C0603X6S0J222M030BA	C0603X6S0G222M030BA
4.7 nF	0603	0.30±0.03	±10%	C0603X6S1A472K030BA	C0603X6S0J472K030BA	C0603X6S0G472M030BA
			±20%	C0603X6S1A472M030BA	C0603X6S0J472M030BA	C0603X6S0G472M030BA
10 nF	0603	0.30±0.03	±10%	C0603X6S1A103K030BA	C0603X6S0J103K030BA	C0603X6S0G103M030BA
			±20%	C0603X6S1A103M030BA	C0603X6S0J103M030BA	C0603X6S0G103M030BA
22 nF	0603	0.30±0.03	±10%	C0603X6S1A223K030BB	C0603X6S0J223M030BB	C0603X6S0G223M030BB
			±20%	C0603X6S1A223M030BB	C0603X6S0J223M030BB	C0603X6S0G223M030BB
47 nF	0603	0.30±0.03	±10%	C0603X6S1A473K030BB	C0603X6S0J473M030BB	C0603X6S0G473M030BB
			±20%	C0603X6S1A473M030BB	C0603X6S0J473M030BB	C0603X6S0G473M030BB
100 nF	0603	0.30±0.03	±10%	C0603X6S0J104K030BC	C0603X6S0J104M030BC	C0603X6S0G104M030BC
			±20%	C0603X6S0J104M030BC	C0603X6S0J104M030BC	C0603X6S0G104M030BC
		0.50±0.05	±10%	C1005X6S0J104K050BA	C1005X6S0G104K050BA	C1005X6S0G104M050BA
			±20%	C1005X6S0J104M050BA	C1005X6S0J104M050BA	C1005X6S0G104M050BA
150 nF	0603	0.30±0.03	±10%	C0603X6S0J154K030BC	C0603X6S0J154M030BC	C0603X6S0G154M030BC
			±20%	C0603X6S0J154M030BC	C0603X6S0J154M030BC	C0603X6S0G154M030BC
		0.30±0.05	±10%	C0603X6S1A154K030BC	C0603X6S0J154M030BC	C0603X6S0G154M030BC
			±20%	C0603X6S1A154M030BC	C0603X6S0J154M030BC	C0603X6S0G154M030BC
220 nF	0603	0.30±0.03	±10%	C0603X6S0J224K030BC	C0603X6S0G224K030BC	C0603X6S0G224M030BB
			±20%	C0603X6S0J224M030BC	C0603X6S0G224M030BB	C0603X6S0G224M030BB
		0.30±0.05	±10%	C0603X6S1A224K030BC	C0603X6S0J224M030BC	C0603X6S0G224M030BC
			±20%	C0603X6S1A224M030BC	C0603X6S0J224M030BC	C0603X6S0G224M030BC
330 nF	0603	0.30±0.05	±10%	C0603X6S0J334K030BC	C0603X6S0G334K030BC	C0603X6S0G334M030BC
			±20%	C0603X6S0G334M030BC	C0603X6S0G334M030BC	C0603X6S0G334M030BC
		0.50±0.05	±10%	C1005X6S1A334K050BC	C1005X6S0J334K050BC	C1005X6S0G334K050BB
			±20%	C1005X6S1A334M050BC	C1005X6S0J334M050BC	C1005X6S0G334M050BB
470 nF	0603	0.30±0.05	±10%	C1005X6S1A474K030BC	C1005X6S0J474M030BC	C1005X6S0G474M030BC
			±20%	C1005X6S1A474M030BC	C1005X6S0J474M030BC	C1005X6S0G474M030BC
		0.50±0.05	±10%	C1005X6S1A474M050BC	C1005X6S0J474M050BC	C1005X6S0G474M050BB
			±20%	C1005X6S1A474M050BC	C1005X6S0J474M050BC	C1005X6S0G474M050BB
680 nF	1005	0.50±0.05	±10%	C1005X6S1A684K050BC	C1005X6S0J684K050BC	C1005X6S0G684K050BB
			±20%	C1005X6S1A684M050BC	C1005X6S0J684M050BC	C1005X6S0G684M050BB
		0.50±0.05	±10%	C1005X6S1A105K050BC	C1005X6S0J105K050BC	C1005X6S0G105K050BC
			±20%	C1005X6S1A105M050BC	C1005X6S0J105M050BC	C1005X6S0G105M050BC
1 μF	1608	0.80±0.15,-0.10	±10%	C1608X6S1A105K080AC	C1608X6S0J105K080AC	C1608X6S0G105K080AC
			±20%	C1608X6S1A105M080AC	C1608X6S0J105M080AC	C1608X6S0G105M080AC
		0.50±0.05	±10%	C1005X6S1A155K050BC	C1005X6S0J155K050BC	C1005X6S0G155K050BC
			±20%	C1005X6S1A155M050BC	C1005X6S0J155M050BC	C1005X6S0G155M050BC
1.5 μF	1608	0.50±0.10	±10%	C1005X6S1A155K050BC	C1005X6S0J155M050BC	C1005X6S0G155M050BC
			±20%	C1005X6S1A155M050BC	C1005X6S0J155M050BC	C1005X6S0G155M050BC
		0.80±0.10	±10%	C1608X6S1A155K080AB	C1608X6S0J155K080AB	C1608X6S0G155M080AB
			±20%	C1608X6S1A155M080AB	C1608X6S0J155M080AB	C1608X6S0G155M080AB
2.2 μF	1005	0.50±0.05	±10%	C1005X6S1A225K050BC	C1005X6S0J225K050BC	C1005X6S0G225K050BC
			±20%	C1005X6S1A225M050BC	C1005X6S0J225M050BC	C1005X6S0G225M050BC
		0.50±0.10	±10%	C1608X6S1A225K080AB	C1608X6S0J225K080AB	C1608X6S0G225M080AB
			±20%	C1608X6S1A225M080AB	C1608X6S0J225M080AB	C1608X6S0G225M080AB
3.3 μF	1608	0.50±0.10	±10%	C1608X6S1A335K080AC	C1608X6S0J335K080AC	C1608X6S0G335K050BC
			±20%	C1608X6S1A335M080AC	C1608X6S0J335M080AC	C1608X6S0G335M050BC
		0.80±0.10	±10%	C1608X6S1A475K080AC	C1608X6S0J475K080AC	C1608X6S0G475M050BC
			±20%	C1608X6S1A475M080AC	C1608X6S0J475M080AC	C1608X6S0G475M050BC
4.7 μF	1608	0.50±0.15,-0.10	±10%	C1608X6S1A475K080AC	C1608X6S0J475K080AC	C1608X6S0G475M050BC
			±20%	C1608X6S1A475M080AC	C1608X6S0J475M080AC	C1608X6S0G475M050BC

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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%	C2012X6S1A475K085AB		
		1.25±0.20	±20%	C2012X6S1A475M085AB		
	1608	0.80±0.10	±10%		C2012X6S0J475K125AB	
		0.80±0.20	±20%		C2012X6S0J475M125AB	
6.8 µF	2012	0.80±0.10	±10%		C1608X6S1A685K080AC	
		0.80±0.20	±20%		C1608X6S1A685M080AC	
		0.85±0.15	±10%	C2012X6S1A685K085AC	C2012X6S0J685K085AB	
		1.25±0.20	±20%	C2012X6S1A685M085AC	C2012X6S0J685M085AB	
	3216	0.85±0.15	±10%	C3216X6S1A685K085AB		
		1.60±0.20	±20%	C3216X6S1A685M085AB		
		0.80±0.10	±10%		C1608X6S0G106K080AB	
		0.80±0.20	±20%	C1608X6S1A106M080AC	C1608X6S0G106M080AC	
10 µF	2012	0.85±0.15	±10%	C2012X6S1A106K085AC	C2012X6S0J106K085AC	
		1.25±0.20	±20%	C2012X6S1A106K125AB	C2012X6S0J106K125AB	
		0.85±0.15	±10%	C2012X6S1A106M085AC	C2012X6S0J106M085AC	
		1.60±0.20	±20%	C2012X6S1A106M125AB	C2012X6S0J106M125AB	
	3216	0.85±0.15	±10%	C3216X6S1A106K085AB		
		1.60±0.20	±20%	C3216X6S1A106M085AB		
		0.80±0.10	±10%		C3216X6S0J106K160AC	
		1.60±0.20	±20%		C3216X6S0J106M160AC	
15 µF	2012	0.85±0.15	±20%		C2012X6S0G156M085AC	
	2012	1.25±0.20	±20%	C2012X6S1A156M125AC	C2012X6S0J156M125AB	
	3216	1.60±0.20	±20%	C3216X6S1A156M160AB	C3216X6S0J156M160AB	
	3216	0.80±0.20	±20%		C1608X6S0G226M080AC	
22 µF	2012	0.85±0.15	±20%		C2012X6S0J226M085AC	C2012X6S0G226M085AC
	2012	1.25±0.20	±20%	C2012X6S1A226M125AC	C2012X6S0J226M125AB	
	3216	1.60±0.20	±20%	C3216X6S1A226M160AB	C3216X6S0J226M160AB	
	3216	0.80±0.20	±20%		C2012X6S0G336M125AC	
33 µF	2012	1.25±0.20	±20%		C2012X6S0G476M125AC	
	3216	1.60±0.20	±20%	C3216X6S1A336M160AC	C3216X6S0J336M160AB	
	2012	1.25±0.20	±20%		C2012X6S0G476M125AC	
	3216	1.60±0.20	±20%	C3216X6S1A476M160AC	C3216X6S0J476M160AB	
47 µF	3216	2.50±0.30	±20%		C3225X6S0J476M250AC	
	3216	1.60±0.30,-0.10	±20%		C3216X6S0G686M160AC	
	3216	1.60±0.30,-0.10	±20%		C3216X6S0G107M160AC	
	3225	2.50±0.40,-0.30	±20%	C3225X6S1A107M250AC	C3225X6S0J107M250AB	
68 µF	3216	2.80±0.30	±20%		C4532X6S0J107M280KC	
	4532	2.80±0.30	±20%			

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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%	C0603X7R1E101K030BA	
			±20%	C0603X7R1E101M030BA	
150 pF	0603	0.30±0.03	±10%	C0603X7R1E151K030BA	
			±20%	C0603X7R1E151M030BA	
220 pF	0603	0.30±0.03	±10%	C0603X7R1E221K030BA	
			±20%	C0603X7R1E221M030BA	
	1005	0.50±0.05	±10%	C1005X7R1H221K050BA	
	1005	0.50±0.05	±20%	C1005X7R1H221M050BA	
330 pF	0603	0.30±0.03	±10%	C0603X7R1E331K030BA	
			±20%	C0603X7R1E331M030BA	
	1005	0.50±0.05	±10%	C1005X7R1H331K050BA	
	1005	0.50±0.05	±20%	C1005X7R1H331M050BA	
470 pF	0603	0.30±0.03	±10%	C0603X7R1E471K030BA	
			±20%	C0603X7R1E471M030BA	
	1005	0.50±0.05	±10%	C1005X7R1H471K050BA	
	1005	0.50±0.05	±20%	C1005X7R1H471M050BA	

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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: 50V	Rated voltage Edc: 35V	Rated voltage Edc: 25V	Rated voltage Edc: 16V
680 pF	0603	0.30±0.03	±10% ±20%	C0603X7R1E681K030BA C0603X7R1E681M030BA			
	1005	0.50±0.05	±10% ±20%	C1005X7R1H681K050BA C1005X7R1H681M050BA			
1 nF	0603	0.30±0.03	±10% ±20%	C0603X7R1E102K030BA C0603X7R1E102M030BA			
	1005	0.50±0.05	±10% ±20%	C1005X7R1H102K050BA C1005X7R1H102M050BA			
1.5 nF	1608	0.80±0.10	±10%	C1608X7R1H102K080AA			
	0603	0.30±0.03	±10% ±20%	C0603X7R1E152K030BA C0603X7R1E152M030BA			
2.2 nF	1005	0.50±0.05	±10% ±20%	C1005X7R1H222K050BA C1005X7R1H222M050BA			
	1608	0.80±0.10	±10%	C1608X7R1H222K080AA			
3.3 nF	0603	0.30±0.03	±10% ±20%	C0603X7R1E332K030BA C0603X7R1E332M030BA			
	1005	0.50±0.05	±10% ±20%	C1005X7R1H332K050BA C1005X7R1H332M050BA			
4.7 nF	0603	0.30±0.03	±10% ±20%	C0603X7R1C472K030BA C0603X7R1C472M030BA			
	1005	0.50±0.05	±10% ±20%	C1005X7R1H472K050BA C1005X7R1H472M050BA			
6.8 nF	1608	0.80±0.10	±10%	C1608X7R1H472K080AA			
	1005	0.50±0.05	±10% ±20%	C1005X7R1H682K050BA C1005X7R1H682M050BA			
10 nF	1005	0.50±0.05	±10% ±20%	C1005X7R1H103K050BB C1005X7R1H103M050BB	C1005X7R1V103K050BB C1005X7R1V103M050BB	C1005X7R1E103K050BB C1005X7R1E103M050BB	C1005X7R1C103K050BA
	1608	0.80±0.10	±10% ±20%	C1608X7R1H103K080AA C1608X7R1H103M080AA		C1608X7R1E103K080AA	
15 nF	1005	0.50±0.05	±10% ±20%	C1005X7R1H153K050BB C1005X7R1H153M050BB	C1005X7R1V153K050BB C1005X7R1V153M050BB	C1005X7R1E153K050BB C1005X7R1E153M050BB	
	1608	0.80±0.10	±10% ±20%	C1608X7R1H153K080AA C1608X7R1H153M080AA			
22 nF	1005	0.50±0.05	±10% ±20%	C1005X7R1H223K050BB C1005X7R1H223M050BB	C1005X7R1V223K050BB C1005X7R1V223M050BB	C1005X7R1E223K050BB C1005X7R1E223M050BB	C1005X7R1C223K050BA
	1608	0.80±0.10	±10% ±20%	C1608X7R1H223M080AA C1608X7R1H223M080AA			
33 nF	1005	0.50±0.05	±10% ±20%	C1005X7R1H333K050BB C1005X7R1H333M050BB	C1005X7R1V333K050BB C1005X7R1V333M050BB	C1005X7R1E333K050BB C1005X7R1E333M050BB	
	1608	0.80±0.10	±10% ±20%	C1608X7R1H333K080AA C1608X7R1H333M080AA			
47 nF	1005	0.50±0.05	±10% ±20%	C1005X7R1H473K050BB C1005X7R1H473M050BB	C1005X7R1V473K050BB C1005X7R1V473M050BB	C1005X7R1E473K050BC C1005X7R1C473K050BC	
	1608	0.80±0.10	±10% ±20%	C1608X7R1H473M080AA C1608X7R1H473M080AA			
68 nF	1005	0.50±0.05	±10% ±20%	C1005X7R1H683K050BB C1005X7R1H683M050BB	C1005X7R1V683K050BB C1005X7R1V683M050BB	C1005X7R1E683K050BB C1005X7R1E683M050BB	C1005X7R1C683K050BC
	1608	0.80±0.10	±10% ±20%	C1608X7R1H683K080AA C1608X7R1H683M080AA			
100 nF	1005	0.50±0.05	±10% ±20%	C1005X7R1H104K050BB C1005X7R1H104M050BB	C1005X7R1V104K050BB C1005X7R1V104M050BB	C1005X7R1E104K050BB C1005X7R1C104M050BC	
	1608	0.80±0.10	±10% ±20%	C1608X7R1H104K080AA C1608X7R1H104M080AA		C1608X7R1E104K080AA C1608X7R1E104M080AA	
150 nF	1005	0.50±0.05	±10% ±20%	C1005X7R1H154K050BB C1005X7R1H154M050BB	C1005X7R1V154K050BB C1005X7R1V154M050BB	C1005X7R1E154K050BB C1005X7R1C154M050BC	
	1608	0.80±0.10	±10% ±20%	C1608X7R1H154K080AB C1608X7R1H154M080AB	C1608X7R1V154K080AB C1608X7R1V154M080AB	C1608X7R1E154K080AB C1608X7R1E154M080AB	

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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: 50V	Rated voltage Edc: 35V	Rated voltage Edc: 25V	Rated voltage Edc: 16V
220 nF	1005	0.50±0.05	±10% ±20%	C1005X7R1V224K050BC C1005X7R1V224M050BC	C1005X7R1E224K050BB C1005X7R1E224M050BB	C1005X7R1C224K050BC C1005X7R1C224M050BC	
	1608	0.80±0.10	±10% ±20%	C1608X7R1H224K080AB C1608X7R1V224M080AB	C1608X7R1V224K080AB C1608X7R1E224M080AC	C1608X7R1E224K080AC C1608X7R1C224K080AC	
	2012	1.25±0.20	±10% ±20%	C2012X7R1H224M125AA C2012X7R1V224M125AA			
	3216	1.15±0.15	±10% ±20%	C3216X7R1H224K115AA C3216X7R1V224M115AA			
330 nF	1608	0.80±0.10	±10% ±20%	C1608X7R1H334K080AC C1608X7R1V334M080AC	C1608X7R1V334K080AB C1608X7R1E334M080AB	C1608X7R1E334K080AC C1608X7R1C334M080AC	
	2012	1.25±0.20	±10% ±20%	C2012X7R1H334M125AA C2012X7R1V334M125AA			
	3216	1.60±0.20	±10% ±20%	C3216X7R1H334K160AA C3216X7R1V334M160AA			
	1608	0.80±0.10	±10% ±20%	C1608X7R1H474K080AC C1608X7R1V474M080AC	C1608X7R1V474K080AB C1608X7R1E474M080AB	C1608X7R1E474K080AC C1608X7R1C474M080AC	
470 nF	2012	1.25±0.20	±10% ±20%	C2012X7R1H474K125AB C2012X7R1V474M125AB	C2012X7R1V474K125AB C2012X7R1E474K125AA	C2012X7R1E474K125AA C2012X7R1C474M125AA	
	3216	1.60±0.20	±10% ±20%	C3216X7R1H474K160AA C3216X7R1V474M160AA			
	1608	0.80±0.10	±10% ±20%	C1608X7R1V684K080AC C1608X7R1V684M080AC	C1608X7R1E684K080AB C1608X7R1E684M080AB	C1608X7R1C684K080AC C1608X7R1C684M080AC	
	2012	1.25±0.20	±10% ±20%	C2012X7R1H684K125AB C2012X7R1V684M125AB	C2012X7R1E684K125AB C2012X7R1E684M125AB	C2012X7R1C684K125AA C2012X7R1C684M125AA	
680 nF	3216	1.60±0.20	±10% ±20%	C3216X7R1H684K160AA C3216X7R1V684M160AA			
	1608	0.80±0.10	±10% ±20%	C1608X7R1V105K080AC C1608X7R1V105M080AC	C1608X7R1E105K080AB C1608X7R1E105M080AB	C1608X7R1C105K080AC C1608X7R1C105M080AC	
	2012	0.80±0.20..-0.10	±10% ±20%	C2012X7R1H105K085AC C2012X7R1V105K085AC	C2012X7R1V105K085AB C2012X7R1E105K085AB	C2012X7R1C105K085AC C2012X7R1C105M085AC	
		0.85±0.15	±10% ±20%	C2012X7R1H105M085AC C2012X7R1V105M085AC	C2012X7R1V105M085AB C2012X7R1E105M085AB	C2012X7R1C105M085AC C2012X7R1C105K125AC	
1 µF	2012	1.25±0.20	±10% ±20%	C2012X7R1H105K125AB C2012X7R1V105M125AB	C2012X7R1V105K125AB C2012X7R1E105M125AB	C2012X7R1E105K125AB C2012X7R1C105M125AA	
		0.85±0.15	±10% ±20%	C3216X7R1H105K085AA C3216X7R1V105M085AA	C3216X7R1E105K085AA C3216X7R1E105M085AA		
	3216	1.60±0.20	±10% ±20%	C3216X7R1H105K160AB C3216X7R1V105M160AB	C3216X7R1E105K160AA C3216X7R1E105M160AA		
	3225	1.60±0.20	±10% ±20%	C3225X7R1H105K160AA C3225X7R1V105M160AA			
4532	4532	1.60±0.20	±10% ±20%	C4532X7R1H105K160KA C4532X7R1V105M160KA			
	2012	1.25±0.20	±10% ±20%	C2012X7R1H155K125AC C2012X7R1V155M125AC	C2012X7R1E155K125AC C2012X7R1C155K125AB	C2012X7R1C155K125AB C2012X7R1C155M125AB	
	3216	1.60±0.20	±10% ±20%	C3216X7R1H155K160AB C3216X7R1V155M160AB	C3216X7R1E155K160AB C3216X7R1C155M160AA		
	3225	2.00±0.20	±10% ±20%	C3225X7R1H155K200AA C3225X7R1V155M200AA			
2.2 µF	2012	0.85±0.15	±10% ±20%	C2012X7R1V225K085AC C2012X7R1V225M085AC	C2012X7R1E225K085AB C2012X7R1E225M085AB	C2012X7R1C225K085AB C2012X7R1C225M085AB	
		1.25±0.20	±10% ±20%	C2012X7R1H225K125AC C2012X7R1V225M125AC	C2012X7R1V225K125AB C2012X7R1E225M125AB	C2012X7R1E225K125AB C2012X7R1C225M125AB	
	3216	1.60±0.20	±10% ±20%	C3216X7R1H225K160AB C3216X7R1V225M160AB	C3216X7R1E225K160AB C3216X7R1C225M160AA		
	3225	2.00±0.20	±10% ±20%	C3225X7R1H225K200AB C3225X7R1V225M200AB			
4532	4532	2.50±0.30	±10% ±20%	C4532X7R1H225K160KA C4532X7R1V225M160KA			
	4532	1.60±0.20	±10% ±20%	C4532X7R1H225M160KA C4532X7R1V225M160KA			

■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: 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%	C2012X7R1V335K125AB	C2012X7R1E335K125AB	C2012X7R1C335K125AB	C2012X7R1C475K125AB	C2012X7R1C475M125AB
			±20%	C2012X7R1V335M125AC	C2012X7R1E335M125AC	C2012X7R1C335M125AC	C2012X7R1C475M125AC	C2012X7R1C475M125AB
		1.60±0.20	±10%	C3216X7R1H335K160AC	C3216X7R1V335K160AB	C3216X7R1E335K160AC	C3216X7R1E335M160AC	C3216X7R1C335M160AC
			±20%	C3216X7R1H335M160AC	C3216X7R1V335M160AB	C3216X7R1E335M160AC	C3216X7R1E335M160AC	C3216X7R1C335M160AA
		1.60±0.20	±10%	C3225X7R1H335K250AB	C3225X7R1V475M250AB	C3225X7R1E475M250AB	C3225X7R1E475M250AA	C3225X7R1C335M160AA
	3216	2.50±0.30	±10%	C3225X7R1H335M250AB	C3225X7R1V475M250AB	C3225X7R1E475M250AB	C3225X7R1E475M250AA	C3225X7R1C335M160AA
		2.00±0.20	±10%	C4532X7R1H335K200KA	C4532X7R1H335M200KA	C4532X7R1V475M200KA	C4532X7R1E475M200KA	C4532X7R1C475M200KA
			±20%	C4532X7R1H335M200KA	C4532X7R1V475M200KA	C4532X7R1E475M200KA	C4532X7R1E475M200AA	C4532X7R1C475M200AA
		1.25±0.20	±10%	C2012X7R1H475K125AC	C2012X7R1V475K125AC	C2012X7R1E475K125AB	C2012X7R1C475K125AB	C2012X7R1C475M125AB
			±20%	C2012X7R1V475M125AC	C2012X7R1E475M125AC	C2012X7R1C475M125AC	C2012X7R1C475M125AB	C2012X7R1C475M125AB
4.7 µF	3216	0.85±0.15	±10%	C3216X7R1V475K085AC	C3216X7R1V475M085AC	C3216X7R1E475K085AC	C3216X7R1C475M085AB	C3216X7R1C475M085AB
		1.60±0.20	±10%	C3216X7R1H475K160AC	C3216X7R1V475K160AB	C3216X7R1E475K160AC	C3216X7R1C475K160AC	C3216X7R1C475M160AB
			±20%	C3216X7R1H475M160AC	C3216X7R1V475M160AC	C3216X7R1E475M160AC	C3216X7R1C475M160AC	C3216X7R1C475M160AB
		2.00±0.20	±10%	C3225X7R1H475K200AA	C3225X7R1V475M200AA	C3225X7R1E475M200AA	C3225X7R1C475M200AA	C3225X7R1C475M200AA
			±20%	C3225X7R1H475M200AB	C3225X7R1V475M200AB	C3225X7R1E475M200AB	C3225X7R1C475M200AB	C3225X7R1C475M200AB
	3225	2.50±0.30	±10%	C4532X7R1H475K200KB	C4532X7R1V475M200KB	C4532X7R1E475M200KA	C4532X7R1C475M200KA	C4532X7R1C475M200AB
		2.00±0.20	±10%	C5750X7R1H475M200KA	C5750X7R1V475M200KA	C5750X7R1E475M200KA	C5750X7R1C475M200AB	C5750X7R1C475M200AB
			±20%	C5750X7R1H475M200KA	C5750X7R1V475M200KA	C5750X7R1E475M200KA	C5750X7R1C475M200AB	C5750X7R1C475M200AB
		2.80±0.30	±10%	C3216X7R1V685K160AC	C3216X7R1V685M160AC	C3216X7R1E685K160AB	C3216X7R1C685K160AC	C3216X7R1C685K160AC
			±20%	C3216X7R1V685M160AC	C3216X7R1V685M160AC	C3216X7R1E685M160AB	C3216X7R1C685M160AC	C3216X7R1C685M160AC
6.8 µF	3216	1.60±0.20	±10%	C3225X7R1H685K250AB	C3225X7R1V685M250AB	C3225X7R1E685M250AB	C3225X7R1C685M250AB	C3225X7R1C685M250AB
			±20%	C3225X7R1V685M250AB	C3225X7R1V685M250AB	C3225X7R1E685M250AB	C3225X7R1C685M250AB	C3225X7R1C685M250AB
		2.50±0.30	±10%	C4532X7R1H685K250KB	C4532X7R1V685M250KB	C4532X7R1E685M250KA	C4532X7R1C685M250AB	C4532X7R1C685M250AB
			±20%	C4532X7R1H685M250KB	C4532X7R1V685M250KB	C4532X7R1E685M250KA	C4532X7R1C685M250AB	C4532X7R1C685M250AB
		2.50±0.30	±10%	C5750X7R1H685K250KA	C5750X7R1V685M250KA	C5750X7R1E685M250KA	C5750X7R1C685M250AB	C5750X7R1C685M250AB
	3225	1.60±0.20	±10%	C3216X7R1H106K160AC	C3216X7R1V106K160AC	C3216X7R1E106K160AB	C3216X7R1C106K160AC	C3216X7R1C106K160AC
			±20%	C3216X7R1V106M160AC	C3216X7R1V106M160AC	C3216X7R1E106M160AB	C3216X7R1C106M160AC	C3216X7R1C106M160AC
		2.00±0.20	±10%	C3225X7R1H106K200AC	C3225X7R1V106M200AC	C3225X7R1E106M200AC	C3225X7R1C106M200AB	C3225X7R1C106M200AB
			±20%	C3225X7R1H106M200AC	C3225X7R1V106M200AC	C3225X7R1E106M200AC	C3225X7R1C106M200AB	C3225X7R1C106M200AB
		2.50±0.30	±10%	C3225X7R1N106K250AC	C3225X7R1V106K250AC	C3225X7R1E106K250AC	C3225X7R1C106K250AB	C3225X7R1C106K250AB
10 µF	4532	2.30±0.20	±10%	C4532X7R1H106K250KB	C4532X7R1V106M250KB	C4532X7R1E106M250KA	C4532X7R1C106K230KA	C4532X7R1C106M230KA
			±20%	C4532X7R1V106M250KB	C4532X7R1V106M250KB	C4532X7R1E106M250KA	C4532X7R1C106M230KA	C4532X7R1C106M230KA
		2.50±0.30	±10%	C4532X7R1H106K250KA	C4532X7R1V106M250KA	C4532X7R1E106M250KA	C4532X7R1C106M250KA	C4532X7R1C106M250KA
	5750	2.00±0.20	±10%	C5750X7R1H106K230KB	C5750X7R1V106M230KB	C5750X7R1E106M230KA	C5750X7R1C106M200KA	C5750X7R1C106M200KA
			±20%	C5750X7R1V106M230KB	C5750X7R1V106M230KB	C5750X7R1E106M230KA	C5750X7R1C106M200KA	C5750X7R1C106M200KA
		2.30±0.20	±10%	C5750X7R1H106K230KB	C5750X7R1V106M230KB	C5750X7R1E106M230KA	C5750X7R1C106M200KA	C5750X7R1C106M200KA
15 µF	3225	2.50±0.30	±10%	C3225X7R1H156M250AC	C3225X7R1V156M250AC	C3225X7R1E156M250AC	C3225X7R1C226K250AC	C3225X7R1C226M250AC
			±20%	C3225X7R1V156M250AC	C3225X7R1V156M250AC	C3225X7R1E156M250AC	C3225X7R1C226M250AC	C3225X7R1C226M250AC
	4532	2.80±0.30	±10%	C4532X7R1H156M250KB	C4532X7R1V156M250KB	C4532X7R1E156M250KA	C4532X7R1C226M250KA	C4532X7R1C226M250KA
			±20%	C4532X7R1V156M250KB	C4532X7R1V156M250KB	C4532X7R1E156M250KA	C4532X7R1C226M250KA	C4532X7R1C226M250KA
22 µF	3225	2.50±0.30	±10%	C3225X7R1H226M250AC	C3225X7R1V226M250AC	C3225X7R1E226M250AC	C3225X7R1C226M250AC	C3225X7R1C226M250AC
			±20%	C3225X7R1V226M250AC	C3225X7R1V226M250AC	C3225X7R1E226M250AC	C3225X7R1C226M250AC	C3225X7R1C226M250AC
		2.00±0.20	±10%	C5750X7R1H226M250KB	C5750X7R1V226M250KB	C5750X7R1E226M250KA	C5750X7R1C226M200KA	C5750X7R1C226M200KA
	4532	2.30±0.20	±10%	C4532X7R1H226M250KB	C4532X7R1V226M250KB	C4532X7R1E226M250KA	C4532X7R1C226M230KA	C4532X7R1C226M230KA
			±20%	C4532X7R1V226M250KB	C4532X7R1V226M250KB	C4532X7R1E226M250KA	C4532X7R1C226M230KA	C4532X7R1C226M230KA
		2.50±0.30	±10%	C5750X7R1H226M250KB	C5750X7R1V226M250KB	C5750X7R1E226M250KA	C5750X7R1C226M230KA	C5750X7R1C226M230KA
33 µF	4532	2.50±0.30	±10%	C4532X7R1C336M250KB	C4532X7R1V476M230KB	C4532X7R1E476M230KA	C4532X7R1C476M230KA	C4532X7R1C476M230KA
			±20%	C4532X7R1V476M230KB	C4532X7R1V476M230KB	C4532X7R1E476M230KA	C4532X7R1C476M230KA	C4532X7R1C476M230KA
	5750	2.00±0.20	±10%	C5750X7R1C336M200KB	C5750X7R1V476M230KB	C5750X7R1E476M230KA	C5750X7R1C476M230KA	C5750X7R1C476M230KA
			±20%	C5750X7R1V476M230KB	C5750X7R1V476M230KB	C5750X7R1E476M230KA	C5750X7R1C476M230KA	C5750X7R1C476M230KA
47 µF	5750	2.30±0.20	±10%	C5750X7R1C476M230KB	C5750X7R1V476M230KB	C5750X7R1E476M230KA	C5750X7R1C476M230KA	C5750X7R1C476M230KA
			±20%	C5750X7R1V476M230KB	C5750X7R1V476M230KB	C5750X7R1E476M230KA	C5750X7R1C476M230KA	C5750X7R1C476M230KA

■ 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: 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%	C1005X7R1A154K050BB		
150 nF	1005	0.50±0.05	±10%	C1005X7R1A154M050BB		
			±20%	C1005X7R1A224M050BB		
220 nF	1005	0.50±0.05	±10%	C1005X7R1A684K080AC		
			±20%	C1008X7R1A684M080AC		
680 nF	1608	0.80+0.15,-0.10	±10%	C1608X7R1A684M080AC		
			±20%	C1608X7R1A105K080AC		
1 µF	1608	0.80+0.15,-0.10	±10%	C1608X7R1A105M080AC		
			±20%	C1608X7R1A155K080AC		
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	±20%	C1608X7R1A106M080AT		
			±10%	C2012X7R1A106K125AC	C2012X7R0J106K125AB	
3216	2012	1.25±0.20	±20%	C2012X7R1A106M125AC	C2012X7R0J106M125AB	
			±10%	C3216X7R1A106K085AC	C3216X7R0J106K085AB	
3216	0.85±0.15	1.60±0.20	±20%	C3216X7R1A106M085AC	C3216X7R0J106M085AB	
			±10%	C3216X7R1A106K160AC		
22 µF	3225	2.30±0.20	±20%	C3216X7R1A106M160AC		
			±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.

MULTILAYER CERAMIC CHIP CAPACITORS



Capacitance range table

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

Capacitance	Dimensions	Thickness (mm)	Capacitance tolerance	Catalog number		
				Rated voltage Edc: 50V	Rated voltage Edc: 25V	Rated voltage Edc: 16V
330 nF	1005	0.50±0.05	±10%	C1005X7S1C334K050BC		
			±20%	C1005X7S1C334M050BC		
470 nF	1005	0.50±0.05	±10%	C1005X7S1C474K050BC		
			±20%	C1005X7S1C474M050BC		
1.5 µF	1608	0.80±0.10	±10%	C1608X7S1C155K080AC		
			±20%	C1608X7S1C155M080AC		
2.2 µF	1608	0.80±0.10	±10%	C1608X7S1C225K080AC		
			±20%	C1608X7S1C225M080AC		
6.8 µF	2012	1.25±0.20	±10%	C2012X7S1C685K125AC		
			±20%	C2012X7S1C685M125AC		
10 µF	3225	2.50±0.30	±10%	C3225X7S1H685K250AB		
			±20%	C3225X7S1H685M250AB		
10 µF	3225	2.50±0.30	±10%	C2012X7S1E106K125AC	C2012X7S1C106K125AC	
			±20%	C3225X7S1H106K250AB	C2012X7S1C106M125AC	

■ 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: 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%	C0603X7S1A223K030BC	C0603X7S0J223M030BB	
			±20%	C0603X7S1A223M030BC	C0603X7S0J223M030BB	
47 nF	0603	0.30±0.03	±10%	C0603X7S1A473K030BC	C0603X7S0J473K030BB	
			±20%	C0603X7S1A473M030BC	C0603X7S0J473M030BB	
100 nF	0603	0.30±0.03	±10%	C0603X7S1A104K030BC		C0603X7S0G104K030BC
			±20%	C0603X7S1A104M030BC		C0603X7S0G104M030BC
150 nF	0603	0.30±0.05	±10%		C0603X7S0J154K030BC	
			±20%		C0603X7S0J154M030BC	
220 nF	0603	0.30±0.03	±10%		C0603X7S0J224K030BC	
			±20%		C0603X7S0G224M030BC	
330 nF	1005	0.50±0.05	±10%	C1005X7S1A334K050BC	C1005X7S0J334K050BC	
			±20%	C1005X7S1A334M050BC	C1005X7S0J334M050BC	
470 nF	1005	0.50±0.05	±10%	C1005X7S1A474K050BC	C1005X7S0J474K050BB	
			±20%	C1005X7S1A474M050BC	C1005X7S0J474M050BB	
680 nF	1005	0.50±0.05	±10%	C1005X7S1A684K050BC	C1005X7S0J684K050BC	C1005X7S0G684K050BC
			±20%	C1005X7S1A684M050BC	C1005X7S0J684M050BC	C1005X7S0G684M050BC
1 µF	1005	0.50±0.05	±10%	C1005X7S1A105K050BC	C1005X7S0J105K050BC	C1005X7S0G105K050BC
			±20%	C1005X7S1A105M050BC	C1005X7S0J105M050BC	C1005X7S0G105M050BC
1.5 µF	1005	0.50±0.10	±10%		C1005X7S0J155K050BC	
			±20%		C1005X7S0J155M050BC	
2.2 µF	1005	0.50+0.15,-0.10	±10%	C1005X7S1A155K050BC		
			±20%	C1005X7S1A155M050BC		
3.3 µF	1608	0.80±0.10	±10%		C1005X7S0J225K050BC	
			±20%		C1005X7S0G225M050BC	
4.7 µF	1608	0.80±0.10	±10%	C1005X7S1A225K050BC		
			±20%	C1005X7S1A225M050BC		
6.8 µF	1608	0.80±0.20	±10%	C1608X7S1A225M080AC	C1608X7S0J225K080AB	
			±20%	C1608X7S1A225M080AC	C1608X7S0G685M080AC	
10 µF	2012	0.85±0.15	±10%	C1608X7S0J106M080AC	C1608X7S0G106M080AB	
			±20%	C1608X7S0J106M080AC	C2012X7S0J106K085AC	C2012X7S0G106K085AC
15 µF	2012	1.25±0.20	±10%	C2012X7S1A156M125AC	C2012X7S0J156M125AC	C2012X7S0G156M125AC
			±20%	C2012X7S1A156M125AC	C3216X7S1A156M160AC	C3216X7S0J156M160AB
22 µF	3216	1.60±0.20	±10%	C2012X7S1A226M125AC	C2012X7S0J226M125AC	C2012X7S0G226M125AC
			±20%	C2012X7S1A226M125AC	C3216X7S0J226M160AC	C3216X7S0G226M160AB
33 µF	3216	1.60±0.20	±10%	C3216X7S1A335M080AC	C3216X7S0J335M080AC	C3216X7S0G335M080AC
			±20%	C3216X7S1A335M080AC	C3216X7S0J335M080AC	C3216X7S0G335M080AC
47 µF	3225	2.50±0.30	±10%	C3225X7S1A476M250AC	C3225X7S0J476M250AC	C3225X7S0G476M250AC
			±20%	C3225X7S1A476M250AC	C3225X7S0J476M250AC	C3225X7S0G476M250AC

■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
10 µF	1608	0.80+0.30,-0.10	±20%	C1608X7T1A106M080AC	
100 µF	3225	2.50+0.40,-0.30	±20%	C3225X7T1A107M250AC	C3225X7T0J107M250AB

Click the part numbers for details.

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