

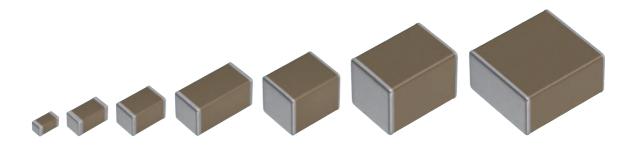
MULTILAYER CERAMIC CHIP CAPACITORS

Commercial grade, mid voltage (100 to 630V)

C series

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

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

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



C series

Mid voltage (100 to 630V)

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

RoHS







SERIES OVERVIEW

Commerciale grade medium voltage C series is a product that supports circuits to which high voltages with rated voltages of 100 to 630V are applied. The maximum capacitance value is 22µF.

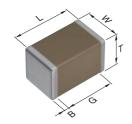
FEATURES

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

APPLICATIONS

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

SHAPE & DIMENSIONS



L	Body length
W	Body width
Т	Body height
В	Terminal width
G	Terminal spacing

■ PRODUCT STRUCTURE



The structure which multiple sheets of dielectric and conductive material are layered alternately. The superior mechanical strength and reliability are realized by the monolithic and simple structure.

Dimensions in mm

Туре	L	W	Т	В	G
C1005	1.00±0.05	0.50±0.05	0.50±0.05	0.10 min.	0.30 min.
C1608	1.60±0.10	0.80±0.10	0.80±0.10	0.20 min.	0.30 min.
C2012	2.00±0.20	1.25±0.20	1.25±0.20	0.20 min.	0.50 min.
C3216	3.20±0.20	1.60±0.20	1.60±0.20	0.20 min.	1.00 min.
C3225	3.20±0.40	2.50±0.30	2.50±0.30	0.20 min.	_
C4532	4.50±0.40	3.20±0.40	3.20±0.30	0.20 min.	_
C5750	5.70±0.40	5.00±0.40	2.80±0.30	0.20 min.	_

^{*} Dimensional tolerances are typical values.



CATALOG NUMBER CONSTRUCTION

C	2012	X7R	2 A	225	K	125	Α	С
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)

(1) Series

(2) Dimensions L x W (mm)

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

(3) Temperature characteristics

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

(4) Rated voltage (DC)

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

(5) Nominal capacitance (pF)

The capacitance is expressed in three digit codes and in units of pico Farads (pF). The first and second digits identify the first and second significant figures of the capacitance. The third digit identifies the multiplier. R designates a decimal point.

(Example)0R5 = 0.5pF 101 = 100pF $225 = 2,200,000pF = 2.2\mu F$

(6) Capacitance tolerance

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

(7) Thickness

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

(8) Packaging style

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

(9) Special reserved code

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



C1005 [0402 inch]

Capacita	nce	COG	X7S
(pF)	Code	2A (100V)	2A (100V)
100	101		
150	151		
220	221		
330	331		
470	471		
680	681		
1,000	102		
1,500	152		
2,200	222		
3,300	332		
4,700	472		
6,800	682		
10,000	103		
	_		

Standard thickness 0.50 mm

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

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



C1608 [0603 inch]

Capacita	nce	CO)G	X5R	X7R	X7S
(pF)	Code	2E (250V)	2A (100V)	2A (100V)	2A (100V)	2A (100V)
1	010					
2	020		_			
3	030		-			
4	040		-			
5	050		-			
6	060					
7	070					
8	080					
9	090					
10	100		-			
15	150		-			
22	220					
33	330		_			
47	470		-			
68	680					
100	101					
150	151					
220	221					
330	331		_			
470	471		_			
680	681					
1,000	102		-			
1,200	122					
1,500	152					
1,800	182					
2,200	222					
2,700	272					
3,300	332		_			
3,900	392		_			
4,700	472		-			
5,600	562		_			
6,800	682		_			
8,200	822		_			
10,000	103				_	
15,000	153					
22,000	223					
33,000	333					
47,000	473					
68,000	683					
100,000	104					

Standard thickness 0.8 mm

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

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



C2012 [0805 inch]

Capacita	nce	COG			X	5R	X7R	
(pF)	Code	2W (450V)	2E (250V)	2A (100V)	2E (250V)	2A (100V)	2E (250V)	2A (100V)
100	101							
150	151							
220	221							
330	331							
470	471							
680	681							
1,000	102							
1,200	122							
1,500	152							
1,800	182			_				
2,200	222							
2,700	272							
3,300	332							
3,900	392							
4,700	472							
5,600	562							
6,800	682							
8,200	822							
10,000	103							
15,000	153							
22,000	223							
33,000	333							
47,000	473							
68,000	683							
100,000	104							
2,200,000	225							
4,700,000	475							

Capacita	Capacitance			X7T				
(pF)	Code	2A (100V)	2W (450V)	2V (350V)	2E (250V)			
10,000	103							
15,000	153							
22,000	223							
33,000	333							
47,000	473							
68,000	683							
100,000	104							
150,000	154							
220,000	224	•						
330,000	334							
470,000	474							
680,000	684							
1,000,000	105							
Standard thick	ness).60 mm	0.	85 mm			

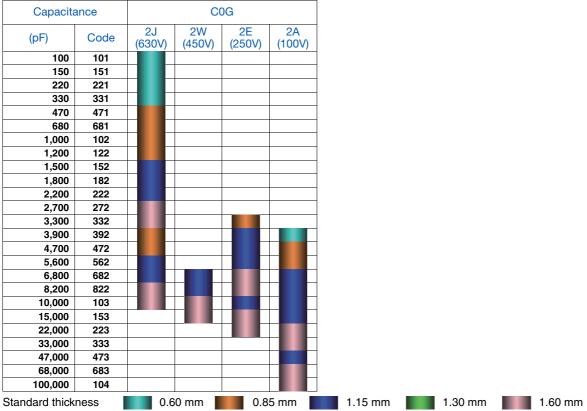
Background gray: These products are not recommended for new designs.

1.25 mm

[■]For details such as the catalog numbers, please refer to the capacitance range table on page 13 and after.



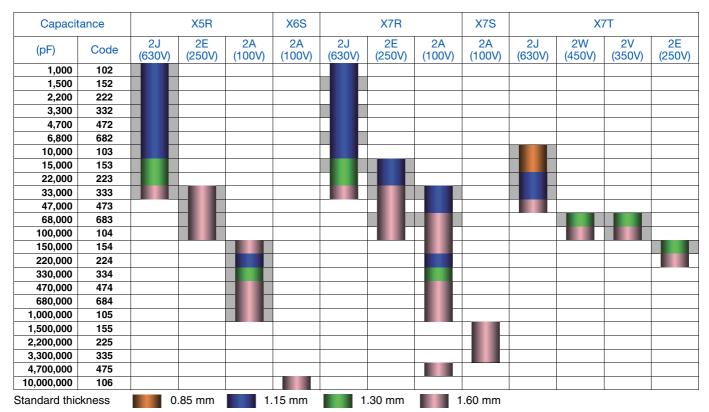
C3216 [1206 inch]



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



C3216 [1206 inch]

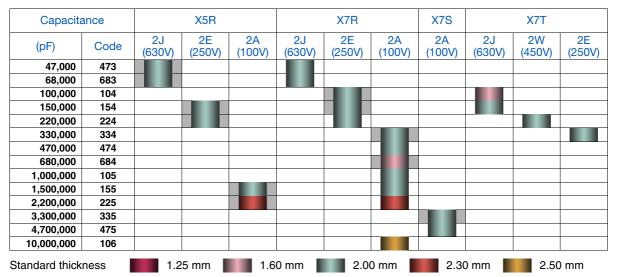


[■] For details such as the catalog numbers, please refer to the capacitance range table on page 13 and after.



C3225 [1210 inch]

Capacita	ance		COG					
(pF)	Code	2J (630V)	2W (450V)	2E (250V)	2A (100V)			
3,900	392							
4,700	472							
5,600	562							
6,800	682							
8,200	822							
10,000	103							
15,000	153							
22,000	223							
33,000	333							
47,000	473							
68,000	683							



[■]For details such as the catalog numbers, please refer to the capacitance range table on page 13 and after.



C4532 [1812 inch]

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

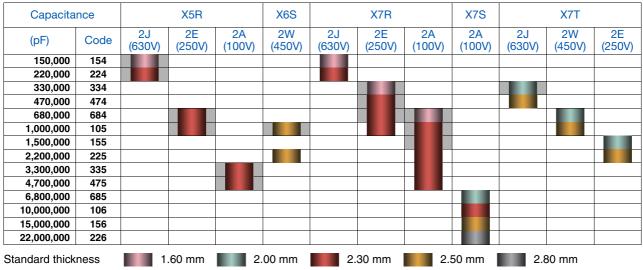
Capacitance		X5R		X7R X		X7S	X7T			
(pF)	Code	2J (630V)	2E (250V)	2J (630V)	2E (250V)	2A (100V)	2A (100V)	2J (630V)	2W (450V)	2E (250V)
68,000	683									
100,000	104									
150,000	154									
220,000	224									
300,000	304									
330,000	334									
470,000	474									
680,000	684									
1,000,000	105									
1,500,000	155									
2,200,000	225									
3,300,000	335									
4,700,000	475									

[■] For details such as the catalog numbers, please refer to the capacitance range table on page 13 and after.



C5750 [2220 inch]

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



[■]For details such as the catalog numbers, please refer to the capacitance range table on page 13 and after.



0	D'	Thickness	Capacitance	Catalog number			
Capacitance	Dimensions	(mm)	tolerance	Rated voltage Edc: 630V	Rated voltage Edc: 450V	Rated voltage Edc: 250V	Rated voltage Edc: 100V
1pF	1608	0.80±0.10	±0.25pF				C1608C0G2A010C080AA
2pF	1608	0.80±0.10	±0.25pF				C1608C0G2A020C080AA
3pF	1608	0.80±0.10	±0.25pF				C1608C0G2A030C080AA
4pF	1608	0.80±0.10	±0.25pF				C1608C0G2A040C080AA
5pF	1608	0.80±0.10	±0.25pF				C1608C0G2A050C080AA
6pF	1608	0.80±0.10	±0.50pF				C1608C0G2A060D080AA
7pF	1608	0.80±0.10	±0.50pF				C1608C0G2A070D080AA
8pF	1608	0.80±0.10	±0.50pF				C1608C0G2A080D080AA
9pF	1608	0.80±0.10	±0.50pF				C1608C0G2A090D080AA
10pF	1608	0.80±0.10	±0.50pF				C1608C0G2A100D080AA
15pF	1608	0.80±0.10	±5%				C1608C0G2A150J080AA
22pF	1608	0.80±0.10	±5%				C1608C0G2A220J080AA
33pF	1608	0.80±0.10	±5%				C1608C0G2A330J080AA
47pF	1608	0.80±0.10	±5%				C1608C0G2A470J080AA
68pF	1608	0.80±0.10	±5%				C1608C0G2A680J080AA
	1005	1005 0.50.005	±10%				C1005C0G2A101K050BA
		0.50±0.05	±5%				C1005C0G2A101J050BA
		1600 0.00.0.10	±10%			C1608C0G2E101K080AA	C1608C0G2A101K080AA
	1000		±5%			C1608C0G2E101J080AA	C1608C0G2A101J080AA
100	1608	0.80±0.10	±2%				C1608C0G2A101G080AA
100pF			±1%				C1608C0G2A101F080AA
	0010	0.00.045	±10%		C2012C0G2W101K060AA		
	2012	0.60±0.15	±5%		C2012C0G2W101J060AA		
	0010		±10%	C3216C0G2J101K060AA			
	3216	0.60±0.15	±5%	C3216C0G2J101J060AA			
	1005	0.50.005	±10%				C1005C0G2A151K050BA
	1005	0.50±0.05	±5%				C1005C0G2A151J050BA
	1000	0.00.040	±10%			C1608C0G2E151K080AA	C1608C0G2A151K080AA
450 · F	1608	0.80±0.10	±5%			C1608C0G2E151J080AA	C1608C0G2A151J080AA
150pF	2010	0.00.045	±10%		C2012C0G2W151K060AA		
	2012	0.60±0.15	±5%		C2012C0G2W151J060AA		
	2010	0.00.045	±10%	C3216C0G2J151K060AA			
	3216	0.60±0.15	±5%	C3216C0G2J151J060AA			
	4005	0.50.005	±10%				C1005C0G2A221K050BA
	1005	0.50±0.05	±5%				C1005C0G2A221J050BA
	4000	0.00.0.10	±10%			C1608C0G2E221K080AA	C1608C0G2A221K080AA
	1608	0.80±0.10	±5%			C1608C0G2E221J080AA	C1608C0G2A221J080AA
220pF	2010	0.00.045	±10%		C2012C0G2W221K060AA		
	2012	0.60±0.15	±5%		C2012C0G2W221J060AA		-
	2010	0.00.045	±10%	C3216C0G2J221K060AA			
	3216	216 0.60±0.15	±5%	C3216C0G2J221J060AA			

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



Capacitance	Dimensions	Thickness	Capacitance	Catalog number			
Capacitarice	Difficionolis	(mm)	tolerance	Rated voltage Edc: 630V	Rated voltage Edc: 450V	Rated voltage Edc: 250V	Rated voltage Edc: 100V
	1005	0.50±0.05	±10%				C1005C0G2A331K050BA
	1005	0.50±0.05	±5%				C1005C0G2A331J050BA
	1608	0.80±0.10	±10%			C1608C0G2E331K080AA	C1608C0G2A331K080AA
330pF	1000	0.00±0.10	±5%			C1608C0G2E331J080AA	C1608C0G2A331J080AA
ЗЗОРІ	2012	0.60±0.15	±10%		C2012C0G2W331K060AA		
	2012	0.00±0.13	±5%		C2012C0G2W331J060AA		
	3216	0.60±0.15	±10%	C3216C0G2J331K060AA			
	3210	0.00±0.13	±5%	C3216C0G2J331J060AA			
	1005	0.50±0.05	±10%				C1005C0G2A471K050BA
		0.50±0.05	±5%				C1005C0G2A471J050BA
	1600	1608 0.80±0.10	±10%			C1608C0G2E471K080AA	C1608C0G2A471K080AA
470pF	1000		±5%			C1608C0G2E471J080AA	C1608C0G2A471J080AA
470pF	2012 0.60±0.15	±10%		C2012C0G2W471K060AA			
		0.60±0.15	±5%		C2012C0G2W471J060AA		
3216	0010	0.05.045	±10%	C3216C0G2J471K085AA			
	0.85±0.15	±5%	C3216C0G2J471J085AA				
	1005	0.50.005	±10%				C1005C0G2A681K050BC
		0.50±0.05	±5%				C1005C0G2A681J050BC
	1000	0.00.040	±10%			C1608C0G2E681K080AA	C1608C0G2A681K080AA
C00	1608	0.80±0.10	±5%			C1608C0G2E681J080AA	C1608C0G2A681J080AA
680pF	0010	0.00.045	±10%		C2012C0G2W681K060AA		
	2012	0.60±0.15	±5%		C2012C0G2W681J060AA		
	0010	0.05.045	±10%	C3216C0G2J681K085AA			
	3216	0.85±0.15	±5%	C3216C0G2J681J085AA			
	1005	0.50.005	±10%				C1005C0G2A102K050BC
	1005	0.50±0.05	±5%				C1005C0G2A102J050BC
			±10%			C1608C0G2E102K080AA	C1608C0G2A102K080AA
	4000	0.00.040	±5%			C1608C0G2E102J080AA	C1608C0G2A102J080AA
	1608	0.80±0.10	±2%				C1608C0G2A102G080AA
			±1%				C1608C0G2A102F080AA
1nF		0.00.045	±10%		C2012C0G2W102K060AA		
	2010	0.60±0.15	±5%		C2012C0G2W102J060AA		C2012C0G2A102J060AA
	2012	0.05.07-	±10%			C2012C0G2E102K085AA	
		0.85±0.15	±5%			C2012C0G2E102J085AA	
			±10%	C3216C0G2J102K085AA			
	3216	0.85±0.15	±5%	C3216C0G2J102J085AA			

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



Capacitance	Dimensions	Thickness (mm)	Capacitance tolerance	Catalog number Rated voltage Edc: 630V	Rated voltage Edc: 450V	Rated voltage Edc: 250V	Rated voltage Edc: 100V
	1608	0.90.0.10	±10%			C1608C0G2E122K080AA	C1608C0G2A122K080AA
	1000	0.80±0.10	±5%			C1608C0G2E122J080AA	C1608C0G2A122J080AA
		0.60.0.15	±10%		C2012C0G2W122K060AA		
1.2nF	2012	0.60±0.15	±5%		C2012C0G2W122J060AA		C2012C0G2A122J060AA
1.211	2012	0.85±0.15	±10%			C2012C0G2E122K085AA	
		0.65±0.15	±5%			C2012C0G2E122J085AA	
	2016	0.05.0.15	±10%	C3216C0G2J122K085AA			
	3216	0.85±0.15	±5%	C3216C0G2J122J085AA			
	1600	0.00.010	±10%			C1608C0G2E152K080AA	C1608C0G2A152K080AA
	1608	0.80±0.10	±5%			C1608C0G2E152J080AA	C1608C0G2A152J080AA
		0.00.045	±10%				C2012C0G2A152K060AA
4 5-5	0010	0.60±0.15	±5%				C2012C0G2A152J060AA
1.5nF	2012	0.05.0.15	±10%		C2012C0G2W152K085AA	C2012C0G2E152K085AA	
		0.85±0.15	±5%		C2012C0G2W152J085AA	C2012C0G2E152J085AA	
	0010	4.45.0.45	±10%	C3216C0G2J152K115AA			
3216	1.15±0.15	±5%	C3216C0G2J152J115AA				
	1000	202 212	±10%			C1608C0G2E182K080AA	C1608C0G2A182K080AA
	1608	0.80±0.10	±5%			C1608C0G2E182J080AA	C1608C0G2A182J080AA
			±10%		C2012C0G2W182K085AA		C2012C0G2A182K085AA
	2012 —	0.85±0.15	±5%		C2012C0G2W182J085AA		C2012C0G2A182J085AA
1.8nF			±10%			C2012C0G2E182K125AA	
		1.25±0.20	±5%			C2012C0G2E182J125AA	
			±10%	C3216C0G2J182K115AA			
	3216	1.15±0.15	±5%	C3216C0G2J182J115AA			
			±10%				C1608C0G2A222K080AA
	1608	0.80±0.10	±5%				C1608C0G2A222J080AA
			±10%			C1608C0G2E222K080AA	
		0.80+0.15,-0.10	±5%			C1608C0G2E222J080AA	
			±10%		C2012C0G2W222K085AA		C2012C0G2A222K085AA
2.2nF	2nF 2012	0.85±0.15	±5%		C2012C0G2W222J085AA		C2012C0G2A222J085AA
			±10%		020.20002.11220000.0.	C2012C0G2E222K125AA	0201200027122200007171
		1.25±0.20	±5%			C2012C0G2E222J125AA	
			±10%	C3216C0G2J222K115AA		02012000222220120121	
	3216	1.15±0.15	±5%	C3216C0G2J222J115AA			
			±10%				C1608C0G2A272K080AA
	1608	0.80+0.15,-0.10	±5%				C1608C0G2A272J080AA
			±10%		C2012C0G2W272K125AA	C2012C0G2E272K125AA	C2012C0G2A272K125AA
2.7nF	2012	1.25±0.20	±5%		C2012C0G2W272J125AA	C2012C0G2E272J125AA	C2012C0G2A272J125AA
			±10%	C3216C0G2J272K160AA			
	3216	1.60±0.20	±5%	C3216C0G2J272J160AA			
			±10%				C1608C0G2A332K080AA
	1608	0.80+0.15,-0.10	±5%				C1608C0G2A332J080AA
			±10%			C2012C0G2E332K085AA	01000000011
		0.85±0.15	±10%			C2012C0G2E332J085AA	
	2012		±10%		C2012C0G2W332K125AA	02012000220000711	C2012C0G2A332K125AA
3.3nF		1.25±0.20	±10%		C2012C0G2W332J125AA		C2012C0G2A332J125AA
			±10%		0201200021100020120701	C3216C0G2E332K085AA	020120002710020120701
		0.85±0.15	±10%			C3216C0G2E332J085AA	
	3216		±10%	C3216C0G2J332K160AA		-02.000G2E00E000AA	
		1.60±0.20	±10%	C3216C0G2J332J160AA			
				0021000020020100AA			C1609C0C2A202K090AC
	1608	0.80±0.10	±10% ±5%				C1608C0G2A392K080AC C1608C0G2A392J080AC
					000400000000000000000000000000000000000	000400000000000000000	
	2012	1.25±0.20	±10%		C2012C0G2W392K125AA	C2012C0G2E392K125AA	C2012C0G2A392K125AA
			±5%		C2012C0G2W392J125AA	C2012C0G2E392J125AA	C2012C0G2A392J125AA
		0.60±0.15	±10%				C3216C0G2A392K060AA
3.9nF			±5%	0001000001			C3216C0G2A392J060AA
	3216	0.85±0.15	±10%	C3216C0G2J392K085AA			
	-		±5%	C3216C0G2J392J085AA			
		1.15±0.15	±10%			C3216C0G2E392K115AA	
			±5%			C3216C0G2E392J115AA	
	3225	1.25±0.20	±10%	C3225C0G2J392K125AA			
			±5%	C3225C0G2J392J125AA			

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



Capacitance Dimensions		Thickness	Capacitance	Catalog number			
Сараспапсе	Dimensions	(mm)	tolerance	Rated voltage Edc: 630V	Rated voltage Edc: 450V	Rated voltage Edc: 250V	Rated voltage Edc: 100V
	1608	0.80±0.10	±10%				C1608C0G2A472K080AC
			±5%				C1608C0G2A472J080AC
	2012	1.25±0.20	±10%		C2012C0G2W472K125AA	C2012C0G2E472K125AA	C2012C0G2A472K125AA
			±5%		C2012C0G2W472J125AA	C2012C0G2E472J125AA	C2012C0G2A472J125AA
4.7nF		0.85±0.15	±10%	C3216C0G2J472K085AA			C3216C0G2A472K085AA
	3216 -		±5%	C3216C0G2J472J085AA			C3216C0G2A472J085AA
		1.15±0.15	±10%			C3216C0G2E472K115AA	
			±5%			C3216C0G2E472J115AA	
	3225	1.60±0.20	±10%	C3225C0G2J472K160AA			
			±5%	C3225C0G2J472J160AA			
	1608	0.80±0.10	±10%				C1608C0G2A562K080AC
		0.0010.10	±5%				C1608C0G2A562J080AC
	2012	1.25±0.20	±10%		C2012C0G2W562K125AA	C2012C0G2E562K125AA	C2012C0G2A562K125AA
	2012	1.2310.20	±5%		C2012C0G2W562J125AA	C2012C0G2E562J125AA	C2012C0G2A562J125AA
5.6nF		0.85±0.15	±10%				C3216C0G2A562K085AA
3.0111	3216 -	0.65±0.15	±5%				C3216C0G2A562J085AA
	3210	1 15.0 15	±10%	C3216C0G2J562K115AA		C3216C0G2E562K115AA	
		1.15±0.15	±5%	C3216C0G2J562J115AA		C3216C0G2E562J115AA	
		1.00.0.00	±10%	C3225C0G2J562K160AA			
3225	1.60±0.20	±5%	C3225C0G2J562J160AA				
	1000	0.00.0.10	±10%				C1608C0G2A682K080AC
	1608	0.80±0.10	±5%				C1608C0G2A682J080AC
	2010	405.000	±10%			C2012C0G2E682K125AA	C2012C0G2A682K125AA
	2012	1.25±0.20	±5%			C2012C0G2E682J125AA	C2012C0G2A682J125AA
			±10%	C3216C0G2J682K115AA	C3216C0G2W682K115AA		C3216C0G2A682K115AA
6.8nF		1.15±0.15	±5%	C3216C0G2J682J115AA	C3216C0G2W682J115AA		C3216C0G2A682J115AA
	3216 -		±10%			C3216C0G2E682K160AA	
		1.60±0.20	±5%			C3216C0G2E682J160AA	
			±10%	C3225C0G2J682K200AA			
	3225	2.00±0.20	±5%	C3225C0G2J682J200AA			
			±10%				C1608C0G2A822K080AC
	1608	0.80±0.10	±5%				C1608C0G2A822J080AC
			±10%			C2012C0G2E822K125AA	C2012C0G2A822K125AA
	2012	1.25±0.20	±5%			C2012C0G2E822J125AA	C2012C0G2A822J125AA
	-		±5 /% ±10%		C3216C0G2W822K115AA	0201200022012377	C3216C0G2A822K115AA
		1.15±0.15	±10%		C3216C0G2W822J115AA		C3216C0G2A822J115AA
8.2nF	3216 -		±5 /% ±10%	C3216C0G2J822K160AA	002100002V0220113AA	C3216C0G2E822K160AA	002100002A0220110AA
		1.60±0.20	±10%	C3216C0G2J822J160AA		C3216C0G2E822J160AA	
	-			C3225C0G2J822K125AA		C3210C0G2L0223100AA	
	3225	1.25±0.20	±10%				
	-		±5%	C3225C0G2J822J125AA			
	4532	1.60±0.20	±10%	C4532C0G2J822K160KA			
			±5%	C4532C0G2J822J160KA			C1600C0C0A100V0C0A0
	1608	0.80±0.10	±10%				C1608C0G2A103K080AC
			±5%			00010000051001/10511	C1608C0G2A103J080AC
	2012	1.25±0.20	±10%			C2012C0G2E103K125AA	C2012C0G2A103K125AA
			±5%			C2012C0G2E103J125AA	C2012C0G2A103J125AA
		1.15±0.15	±10%			C3216C0G2E103K115AA	C3216C0G2A103K115AA
	3216 -		±5%			C3216C0G2E103J115AA	C3216C0G2A103J115AA
10nF		1.60±0.20	±10%	C3216C0G2J103K160AA	C3216C0G2W103K160AA		
			±5%	C3216C0G2J103J160AA	C3216C0G2W103J160AA		
		1.25±0.20	±10%	C3225C0G2J103K125AA			
	3225 -	1.2010.20	±5%	C3225C0G2J103J125AA			
	0220	1.60±0.20	±10%			C3225C0G2E103K160AA	
		1.00±0.20	±5%			C3225C0G2E103J160AA	<u> </u>
	4522	1 60 . 0 00	±10%	C4532C0G2J103K160KA			
	4532	1.60±0.20	±5%	C4532C0G2J103J160KA			

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



,	Dimensions	Thickness (mm)	Capacitance tolerance	Catalog number Rated voltage Edc: 630V	Rated voltage Edc: 450V	Rated voltage Edc: 250V	Rated voltage Edc: 100\		
	0045	. ,	±10%				C2012C0G2A153K085AC		
	2012	0.85±0.15	±5%				C2012C0G2A153J085AC		
-			±10%				C3216C0G2A153K115A		
		1.15±0.15	±5%				C3216C0G2A153J115A		
			±10%			C3216C0G2E153K160AA			
	3216	1.60±0.20	±5%			C3216C0G2E153J160AA			
	_		±10%		C3216C0G2W153K160AA				
		1.60+0.30,-0.10	±5%		C3216C0G2W153J160AA				
15nF -			±10%				C3225C0G2A153K125A		
		1.25±0.20	±5%				C3225C0G2A153J125A		
	-		±10%	C3225C0G2J153K160AA					
	3225	1.60±0.20	±5%	C3225C0G2J153J160AA					
	_		±10%			C3225C0G2E153K200AA			
		2.00±0.20	±5%			C3225C0G2E153J200AA			
-			±10%	C4532C0G2J153K250KA					
	4532	2.50±0.30	±5%	C4532C0G2J153J250KA					
			±10%				C2012C0G2A223K125A		
	2012	1.25±0.20	±5%				C2012C0G2A223J125A		
-			±10%				C3216C0G2A223K160A		
		1.60±0.20	±5%				C3216C0G2A223J160A		
	3216 -		±10%			C3216C0G2E223K160AA			
		1.60+0.30,-0.10	±5%			C3216C0G2E223J160AA			
-			±10%			C3225C0G2E223K160AA	C3225C0G2A223K160A		
22nF		1.60±0.20	±5%			C3225C0G2E223J160AA	C3225C0G2A223J160A		
	3225 -		±10%	C3225C0G2J223K230AA	C3225C0G2W223K230AA	00220003222200100,01	00220000278220078		
		2.30±0.20	±5%	C3225C0G2J223J230AA	C3225C0G2W223J230AA				
-			±10%			C4532C0G2E223K160KA			
		1.60±0.20	±5%			C4532C0G2E223J160KA			
	4532 -		±10%	C4532C0G2J223K320KA					
		3.20±0.30	±5%	C4532C0G2J223J320KA					
			±10%				C2012C0G2A333K125A		
	2012	1.25±0.20	±5%				C2012C0G2A333J125A		
-			±10%				C3216C0G2A333K160A		
	3216	1.60+0.30,-0.10	±5%				C3216C0G2A333J160A		
-			±10%				C3225C0G2A333K200A		
	3225 -	2.00±0.20	±5%				C3225C0G2A333J200A		
33nF		0.00.0.00	2 20 . 0 20	2 20 . 0 20	±10%			C3225C0G2E333K230AA	
		2.30±0.20	±5%			C3225C0G2E333J230AA			
			±10%	C3225C0G2J333K250AA	C3225C0G2W333K250AA				
		2.50±0.30	±5%	C3225C0G2J333J250AA	C3225C0G2W333J250AA				
-			±10%	C4532C0G2J333K200KA		C4532C0G2E333K200KA			
	4532	2.00±0.20	±5%	C4532C0G2J333J200KA		C4532C0G2E333J200KA			
			±10%				C3216C0G2A473K115A		
	3216	1.15±0.15	±5%				C3216C0G2A473J115A0		
-			±10%				C3225C0G2A473K230A		
	005-	2.30±0.20	±5%				C3225C0G2A473J230A		
	3225 –	0.50 0.55	±10%			C3225C0G2E473K250AA			
		2.50±0.30	±5%			C3225C0G2E473J250AA			
47nF -				±10%				C4532C0G2A473K200K	
		2.00±0.20	±5%				C4532C0G2A473J200K		
			±10%		C4532C0G2W473K230KA				
	4532	2.30±0.20	±5%		C4532C0G2W473J230KA				
	=		±10%	C4532C0G2J473K320KA		C4532C0G2E473K320KA			
		3.20±0.30	±5%	C4532C0G2J473J320KA		C4532C0G2E473J320KA			
	2212		±10%				C3216C0G2A683K160A		
	3216	1.60±0.20	±5%				C3216C0G2A683J160A		
_			±10%				C3225C0G2A683K230A		
-	3225	2.30±0.20	±5%				C3225C0G2A683J230A		
·			±10%			C4532C0G2E683K230KN			
-		2.30±0.20	/ -			C4532C0G2E683J230KN			
-		2.30±0.20	±5%						
68nF			±5% ±10%			0.100200022001411	C4532C0G2A683K250K		
68nF	4532	2.30±0.20 2.50±0.30	±10%			3.0020002200000			
68nF	4532 -	2.50±0.30	±10% ±5%		C4532C0G2W683K320KA		C4532C0G2A683K250K C4532C0G2A683J250K		
68nF	4532 -		±10% ±5% ±10%		C4532C0G2W683K320KA C4532C0G2W683J320KA	0.55250422505250			
68nF	4532 - 5750	2.50±0.30	±10% ±5%	C5750C0G2J683K230KC	C4532C0G2W683K320KA C4532C0G2W683J320KA	***************************************			

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



Canacitanas	Dimensions	Thickness	Capacitance	Catalog number				
Сараспансе	Dimensions	(mm)	tolerance	Rated voltage Edc: 630V	Rated voltage Edc: 450V	Rated voltage Edc: 250V	Rated voltage Edc: 100V	
	3216	1.60±0.20	±10%				C3216C0G2A104K160AC	
	3210	1.00±0.20	±5%				C3216C0G2A104J160AC	
100nF	4532	3.20±0.30	±10%			C4532C0G2E104K320KN	C4532C0G2A104K320KA	
TOOTIF			±5%			C4532C0G2E104J320KN	C4532C0G2A104J320KA	
	5750	2.80±0.30	±10%	C5750C0G2J104K280KC	C5750C0G2W104K280KA			
	5750	3730	2.80±0.30	±5%	C5750C0G2J104J280KC	C5750C0G2W104J280KA		
150nF	5750	2.30+0.20	±10%			C5750C0G2E154K230KN	C5750C0G2A154K230KA	
ISUNF	5/50	2.30±0.20	±5%			C5750C0G2E154J230KN	C5750C0G2A154J230KA	

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



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

Capacitance	Dimensions	Thickness (mm)	Capacitance	Catalog number	Dated vallers Ed. 0501	Dotad vallage Ed. 4000
		(mm)	tolerance	Rated voltage Edc: 630V	Rated voltage Edc: 250V	Rated voltage Edc: 100V C1608X5R2A102K080AA
	1608	0.80±0.10	±10% ±20%			C1608X5R2A102K080AA
			±20% ±10%		C2012X5R2E102K085AA	C 1000A3HZA 10ZIVIOOUAF
1nF	2012	0.85±0.15	±20%		C2012X5R2E102M085AA	
		4.5.0.15	±10%	C3216X5R2J102K115AA		
	3216	1.15±0.15	±20%	C3216X5R2J102M115AA		
	1608	0.80+0.10	±10%			C1608X5R2A152K080AA
	1608	0.80±0.10	±20%			C1608X5R2A152M080AA
1.5nF	2012	0.85±0.15	±10%		C2012X5R2E152K085AA	
			±20%	000407/2001420144244	C2012X5R2E152M085AA	
	3216	1.15±0.15	±10%	C3216X5R2J152K115AA		
			±20% ±10%	C3216X5R2J152M115AA		C1608X5R2A222K080AA
	1608	0.80±0.10	±20%			C1608X5R2A222M080AA
			±10%		C2012X5R2E222K085AA	0.000,(0.12,122,11000,1
2.2nF	2012	0.85±0.15	±20%		C2012X5R2E222M085AA	
	2016	1.15.0.15	±10%	C3216X5R2J222K115AA		
	3216	1.15±0.15	±20%	C3216X5R2J222M115AA		
	1608	0.80±0.10	±10%			C1608X5R2A332K080AA
		0.00200	±20%			C1608X5R2A332M080AA
3.3nF	2012	0.85±0.15	±10%		C2012X5R2E332K085AA	
			±20% ±10%	C3216X5R2J332K115AA	C2012X5R2E332M085AA	
	3216	1.15±0.15	±10%	C3216X5R2J332M115AA		
			±10%	00210701120002191110701		C1608X5R2A472K080AA
	1608	0.80±0.10	±20%			C1608X5R2A472M080AA
	2010	0.05.0.45	±10%		C2012X5R2E472K085AA	
4.7nF	2012	0.85±0.15	±20%		C2012X5R2E472M085AA	
	3216	1.15±0.15	±10%	C3216X5R2J472K115AA		
	0210	1.10±0.10	±20%	C3216X5R2J472M115AA		
	1608	0.80±0.10	±10%			C1608X5R2A682K080AA
			±20%		000407/2002/2027/4024/4	C1608X5R2A682M080AA
6.8nF	2012	1.25±0.20	±10%		C2012X5R2E682K125AA	
			±20% ±10%	C3216X5R2J682K115AA	C2012X5R2E682M125AA	
	3216	1.15±0.15	±20%	C3216X5R2J682M115AA		
			±10%			C1608X5R2A103K080AA
	1608	0.80±0.10	±20%			C1608X5R2A103M080AA
10nF	2012	1.25±0.20	±10%		C2012X5R2E103K125AA	
10111	2012	1.23±0.20	±20%		C2012X5R2E103M125AA	
	3216	1.15±0.15	±10%	C3216X5R2J103K115AA		
			±20%	C3216X5R2J103M115AA		01000//5D01150//0001
	1608	0.80 ± 0.10	±10%			C1608X5R2A153K080AA C1608X5R2A153M080AA
			±20% ±10%		C2012X5R2E153K125AA	C 1000A3HZA 133IVIU0UAF
15nF	2012	1.25±0.20	±20%		C2012X5R2E153M125AA	
			±10%	C3216X5R2J153K130AA	02012701122100111120701	
	3216	1.30±0.20	±20%	C3216X5R2J153M130AA		
	1608	0.80±0.10	±10%			C1608X5R2A223K080AA
	1000	0.00±0.10	±20%			C1608X5R2A223M080AA
22nF	2012	1.25±0.20	±10%		C2012X5R2E223K125AA	
			±20%	000101/50010011	C2012X5R2E223M125AA	
	3216	1.30±0.20	±10%	C3216X5R2J223K130AA		
			±20%	C3216X5R2J223M130AA		C2012X5R2A333K125AA
	2012	1.25±0.20	±10% ±20%			C2012X5R2A333M125AA
33nF			±10%	C3216X5R2J333K160AA	C3216X5R2E333K160AA	OZOTZXSTIZAGGGWTZSXP
	3216	1.60±0.20	±20%	C3216X5R2J333M160AA	C3216X5R2E333M160AA	
	0010	1.05 - 0.00	±10%			C2012X5R2A473K125AA
	2012	1.25±0.20	±20%			C2012X5R2A473M125AA
47nF	3216	1.60±0.20	±10%		C3216X5R2E473K160AA	
47.111	0 <u>L</u> 10	1.00±0.20	±20%		C3216X5R2E473M160AA	
	3225	2.00±0.20	±10%	C3225X5R2J473K200AA		
			±20%	C3225X5R2J473M200AA		00040\/FB04000\/0==1
	2012	0.85±0.15	±10%			C2012X5R2A683K085AA
			±20% ±10%		C3216X5R2E683K160AA	C2012X5R2A683M085AA
68nF	3216	1.60±0.20	±10%		C3216X5R2E683M160AA	
			±20%	C3225X5R2J683K200AA	SSE TONOTILE DOGINI TOOMA	
	3225	2.00±0.20	±20%	C3225X5R2J683M200AA		
			**			

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



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

Canacitanas	Dimonoiono	Thickness	Capacitance	Catalog number			
Japachance	Dimensions	(mm)	tolerance	Rated voltage Edc: 630V	Rated voltage Edc: 250V	Rated voltage Edc: 100V	
	2012	1.25±0.20	±10%			C2012X5R2A104K125AA	
100nF	2012	1.25±0.20	±20%			C2012X5R2A104M125AA	
	3216	1.60±0.20	±10%		C3216X5R2E104K160AA		
100111	3210	1.00±0.20	±20%		C3216X5R2E104M160AA		
	4522	4532	2.30±0.20	±10%	C4532X5R2J104K230KA		
	430Z	2.00±0.20	±20%	C4532X5R2J104M230KA			
	3216	1.60±0.20	±10%			C3216X5R2A154K160AA	
		1.00±0.20	±20%			C3216X5R2A154M160AA	
150nF	3225	2.00±0.20	±10%		C3225X5R2E154K200AA		
130111	0223	2.00±0.20	±20%		C3225X5R2E154M200AA		
	5750	1.60±0.20	±10%	C5750X5R2J154K160KA			
	3730	1.00±0.20	±20%	C5750X5R2J154M160KA			
	3216	1.15±0.15	±10%			C3216X5R2A224K115AA	
	0210	1.15±0.15	±20%			C3216X5R2A224M115AA	
220nF	3225	2.00±0.20	±10%		C3225X5R2E224K200AA		
22011		2.00±0.20	±20%		C3225X5R2E224M200AA		
	5750	0.00.0.00	±10%	C5750X5R2J224K230KA			
		2.30±0.20	±20%	C5750X5R2J224M230KA			
	2016	1 00 . 0 00	±10%			C3216X5R2A334K130AA	
000	3216	1.30±0.20	±20%			C3216X5R2A334M130AA	
330nF	4532	0.00.0.00	±10%		C4532X5R2E334K230KA		
		2.30±0.20	±20%		C4532X5R2E334M230KA		
	3216	4.00.000	±10%			C3216X5R2A474K160AA	
470		1.60±0.20	±20%			C3216X5R2A474M160AA	
470nF	4532		±10%		C4532X5R2E474K230KA		
		2.30±0.20	±20%		C4532X5R2E474M230KA		
	3216	1.00.0.00	±10%			C3216X5R2A684K160AA	
	3216	6 1.60±0.20	±20%			C3216X5R2A684M160AA	
680nF	5750		±10%		C5750X5R2E684K230KA		
	5750	2.30±0.20	±20%		C5750X5R2E684M230KA		
	2010	4.00.000	±10%			C3216X5R2A105K160AA	
	3216	1.60±0.20	±20%			C3216X5R2A105M160AA	
1μF	5750	222 222	±10%		C5750X5R2E105K230KA		
	5750	2.30±0.20	±20%		C5750X5R2E105M230KA		
			±10%			C3225X5R2A155K200AB	
1.5µF	3225	2.00±0.20	±20%			C3225X5R2A155M200AE	
	2225	222 225	±10%			C3225X5R2A225K230AB	
2.2µF	3225	2.30±0.20	±20%			C3225X5R2A225M230AE	
00.5		2.22.2.2	±10%			C5750X5R2A335K230KA	
3.3µF	5750	2.30±0.20	±20%			C5750X5R2A335M230KA	
	2012	1.25+0.25,-0.15	±10%			C2012X5R2A475K125AC	
4.7µF		•	±10%			C5750X5R2A475K230KA	
	5750	2.30±0.20	±20%			C5750X5R2A475M230KA	

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

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

Capacitance Dimensions		Thickness Capacitance		Catalog number	
Сараспансе	Capacitance Dimensions		tolerance	Rated voltage Edc: 450V	Rated voltage Edc: 100V
1	5750	2.50±0.30	±10%	C5750X6S2W105K250KA	
1µF	5750	2.50±0.30	±20%	C5750X6S2W105M250KA	
2.2µF	5750	2.50±0.30	±10%	C5750X6S2W225K250KA	
2.2μΓ	5750	2.50±0.30	±20%	C5750X6S2W225M250KA	
10μF	3216	1.60+0.30,-0.10	±10%		C3216X6S2A106K160AC

[■] 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	Patad valtage Ede: 250V	Patad voltage Ede: 100V	
		(111111)	±10%	Rated voltage Edc: 630V	Rated voltage Edc: 250V	Rated voltage Edc: 100V C1608X7R2A102K080AA	
	1608	0.80±0.10	±20%			C1608X7R2A102M080AA	
1nF	2012	0.85±0.15	±10%		C2012X7R2E102K085AA	C2012X7R2A102K085AA	
	2012	0.00±0.15	±20%		C2012X7R2E102M085AA	C2012X7R2A102M085AA	
	3216	1.15±0.15	±10%	C3216X7R2J102K115AA			
			±20%	C3216X7R2J102M115AA		C1000V7D0A1E0V000AA	
	1608	0.80±0.10	±10% ±20%			C1608X7R2A152K080AA C1608X7R2A152M080AA	
			±10%		C2012X7R2E152K085AA	C2012X7R2A152K085AA	
1.5nF	2012	0.85±0.15	±20%		C2012X7R2E152M085AA	C2012X7R2A152M085AA	
	3216	1.15±0.15	±10%	C3216X7R2J152K115AA			
	3210	1.15±0.15	±20%	C3216X7R2J152M115AA			
	1608	0.80±0.10	±10%			C1608X7R2A222K080AA	
			±20% ±10%		C2012X7R2E222K085AA	C1608X7R2A222M080AA C2012X7R2A222K085AA	
2.2nF	2012	0.85±0.15	±20%		C2012X7R2E222R005AA C2012X7R2E222M085AA	C2012X7R2A222R005AA	
			±10%	C3216X7R2J222K115AA	02012///122222///000/01	02012/1112/1222111000/111	
	3216	1.15±0.15	±20%	C3216X7R2J222M115AA			
	1608	0.80±0.10	±10%			C1608X7R2A332K080AA	
		0.00±0.10	±20%			C1608X7R2A332M080AA	
3.3nF	2012	0.85±0.15	±10%		C2012X7R2E332K085AA	C2012X7R2A332K085AA	
			±20% ±10%	C3216X7R2J332K115AA	C2012X7R2E332M085AA	C2012X7R2A332M085AA	
	3216	1.15±0.15	±20%	C3216X7R2J332M115AA			
	1000	0.00.040	±10%			C1608X7R2A472K080AA	
	1608	0.80±0.10	±20%			C1608X7R2A472M080AA	
4.7nF	2012	2012	0.85±0.15	±10%		C2012X7R2E472K085AA	C2012X7R2A472K085AA
			±20%	000401/70044544	C2012X7R2E472M085AA	C2012X7R2A472M085AA	
	3216	1.15±0.15	±10% ±20%	C3216X7R2J472K115AA C3216X7R2J472M115AA			
			±20%	00210X/11204/2W1113AA		C1608X7R2A682K080AA	
	1608	0.80±0.10	±20%			C1608X7R2A682M080AA	
		0.85±0.15	±10%			C2012X7R2A682K085AA	
6.8nF	2012 -	0.85±0.15	±20%			C2012X7R2A682M085AA	
0.0111		1.25±0.20	±10%		C2012X7R2E682K125AA		
			±20%	C0016V7D0 IC00V11FAA	C2012X7R2E682M125AA		
	3216	1.15±0.15	±10% ±20%	C3216X7R2J682K115AA C3216X7R2J682M115AA			
			±20%	00210X71120002W1113AA		C1608X7R2A103K080AA	
	1608	0.80±0.10	±20%			C1608X7R2A103M080AA	
		0.85±0.15	±10%			C2012X7R2A103K085AA	
10nF	2012 -	0.00±0.10	±20%			C2012X7R2A103M085AA	
	20.2	1.25±0.20	±10%		C2012X7R2E103K125AA		
			±20% ±10%	C3216X7R2J103K115AA	C2012X7R2E103M125AA		
	3216	1.15±0.15	±20%	C3216X7R2J103M115AA			
			±10%			C1608X7R2A153K080AA	
	1608	0.80±0.10	±20%			C1608X7R2A153M080AA	
	2012	1.25±0.20	±10%		C2012X7R2E153K125AA	C2012X7R2A153K125AA	
15nF		112020120	±20%		C2012X7R2E153M125AA	C2012X7R2A153M125AA	
		1.15±0.15	±10%		C3216X7R2E153K115AA		
	3216 -		±20% ±10%	C3216X7R2J153K130AA	C3216X7R2E153M115AA		
		1.30±0.20	±20%	C3216X7R2J153M130AA			
	1000	0.00.040	±10%			C1608X7R2A223K080AA	
	1608	0.80±0.10	±20%			C1608X7R2A223M080AA	
	2012	1.25±0.20	±10%		C2012X7R2E223K125AA	C2012X7R2A223K125AA	
22nF			±20%		C2012X7R2E223M125AA	C2012X7R2A223M125AA	
		1.15±0.15	±10% ±20%		C3216X7R2E223K115AA C3216X7R2E223M115AA		
	3216 -		±20% ±10%	C3216X7R2J223K130AA	OUZ TUA/ NZEZZŰNI I TOAA		
		1.30±0.20	±20%	C3216X7R2J223M130AA			
	2010	1.05 - 0.00	±10%			C2012X7R2A333K125AA	
	2012	1.25±0.20	±20%			C2012X7R2A333M125AA	
33nF		1.15±0.15	±10%			C3216X7R2A333K115AA	
	3216 -	020.10	±20%	00040//#D01:	000407/2002	C3216X7R2A333M115AA	
		1.60±0.20	±10% ±20%	C3216X7R2J333K160AA C3216X7R2J333M160AA	C3216X7R2E333K160AA C3216X7R2E333M160AA		
			±2U /0	OUZ TUAT NZJOSSIVITOUAA	OUZ TUAT NZ EUUNINTOUAA		

[■] 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%)

apacitance	Dimensions	Thickness (mm)	Capacitance tolerance	Catalog number Rated voltage Edc: 630V	Rated voltage Edc: 250V	Rated voltage Edc: 100\		
		, ,	±10%	70	a.ca Tonago Edo. EdoV	C2012X7R2A473K125AA		
-	2012	1.25±0.20	±20%			C2012X7R2A473M125AA		
			±10%			C3216X7R2A473K115AA		
		1.15±0.15	±20%			C3216X7R2A473M115AA		
47nF	3216 -		±10%		C3216X7R2E473K160AA			
		1.60±0.20	±20%		C3216X7R2E473M160AA			
			±10%	C3225X7R2J473K200AA				
	3225	2.00±0.20	±20%	C3225X7R2J473M200AA				
			±10%			C2012X7R2A683K085AA		
	2012	0.85±0.15	±20%			C2012X7R2A683M085AA		
-			±10%		C3216X7R2E683K160AA	C3216X7R2A683K160AA		
	3216	1.60±0.20	±20%		C3216X7R2E683M160AA	C3216X7R2A683M160AA		
68nF	2005		±10%	C3225X7R2J683K200AA				
	3225	2.00±0.20	±20%	C3225X7R2J683M200AA				
•	4500	4.00.000	±10%	C4532X7R2J683K160KA				
	4532	1.60±0.20	±20%	C4532X7R2J683M160KA				
	0010	4.05.0.00	±10%			C2012X7R2A104K125AA		
	2012	1.25±0.20	±20%			C2012X7R2A104M125A		
	2016	1.00.0.00	±10%		C3216X7R2E104K160AA	C3216X7R2A104K160AA		
100nF	3216	1.60±0.20	±20%		C3216X7R2E104M160AA	C3216X7R2A104M160A		
TOUTE	3225	2 00-0 20	±10%		C3225X7R2E104K200AA	<u></u>		
	3225	2.00±0.20	±20%		C3225X7R2E104M200AA			
•	4532	2 20 . 0 20	±10%	C4532X7R2J104K230KA				
	4532	2.30±0.20	±20%	C4532X7R2J104M230KA				
	3216	1.60±0.20	±10%			C3216X7R2A154K160AA		
_	3210	1.00±0.20	±20%			C3216X7R2A154M160A/		
	3225	3225	3225	2.00±0.20	±10%		C3225X7R2E154K200AA	
150nF	3223	2.0010.20	±20%		C3225X7R2E154M200AA			
130111	4532	1.60±0.20	±10%		C4532X7R2E154K160KA			
	4332	1.0020.20	±20%		C4532X7R2E154M160KA			
	5750	1.60±0.20	±10%	C5750X7R2J154K160KA				
		1.0010.20	±20%	C5750X7R2J154M160KA				
	3216	3216	3216	1.15±0.15	±10%			C3216X7R2A224K115AA
	0210		±20%			C3216X7R2A224M115A		
	3225	2.00±0.20	±10%		C3225X7R2E224K200AA			
220nF	0220		±20%		C3225X7R2E224M200AA			
	4532	2.30±0.20	±10%		C4532X7R2E224K230KA			
			±20%		C4532X7R2E224M230KA			
	5750	2.30±0.20	±10%	C5750X7R2J224K230KA				
			±20%	C5750X7R2J224M230KA				
	3216	1.30±0.20	±10%			C3216X7R2A334K130AA		
			±20%			C3216X7R2A334M130AA		
	3225	2.00±0.20	±10%			C3225X7R2A334K200AA		
330nF			±20%			C3225X7R2A334M200A		
	4532	2.30±0.20	±10%		C4532X7R2E334K230KA			
			±20%		C4532X7R2E334M230KA			
	5750	1.60±0.20	±10%		C5750X7R2E334K160KA			
			±20%		C5750X7R2E334M160KA	C0016V7D0		
	3216	1.60±0.20	±10%			C3216X7R2A474K160AA		
			±20%			C3216X7R2A474M160AA		
	3225	3225	2.00±0.20	±10%			C3225X7R2A474K200AA	
470nF			±20%		C4E00VZD0E4Z4V000V4	C3225X7R2A474M200AA		
	4532	2.30±0.20	±10%		C4532X7R2E474K230KA			
			±20%		C4532X7R2E474M230KA			
	5750	2.30±0.20	±10%		C5750X7R2E474K230KA			
			±20%		C5750X7R2E474M230KA	O0046V7D04004V4004		
	3216	1.60±0.20	±10%			C3216X7R2A684K160A/		
			±20%			C3216X7R2A684M160A/		
	3225	1.60±0.20	±10%			C3225X7R2A684K160AA		
-			±20%			C3225X7R2A684M160A		
680nF	4532	2.30±0.20	±10%			C4532X7R2A684K230K/		
680nF			±20%			C4532X7R2A684M230K		
					±10%			C5750X7R2A684K160KA
=		1.60±0.20						
-	5750 -	1.60±0.20	±20%			C5750X7R2A684M160KA		
	5750 -	1.60±0.20 2.30±0.20	±20% ±10% ±20%		C5750X7R2E684K230KA C5750X7R2E684M230KA	C5750X7R2A684M160KA		

[■] 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	Dimensione	Thickness	Capacitance	Catalog number	
Сараспапсе	Diffierisions	(mm)	tolerance	Rated voltage Edc: 250V	Rated voltage Edc: 100V
	3216	1.00.0.00	±10%		C3216X7R2A105K160AA
	3216	1.60±0.20	±20%		C3216X7R2A105M160AA
	3225	2.00±0.20	±10%		C3225X7R2A105K200AA
1µF	3225	2.00±0.20	±20%		C3225X7R2A105M200AA
iμr	4532	2.30±0.20	±10%		C4532X7R2A105K230KA
	4532	2.30±0.20	±20%		C4532X7R2A105M230KA
	5750	2.30±0.20	±10%	C5750X7R2E105K230KA	C5750X7R2A105K230KA
	5/50	2.30±0.20	±20%	C5750X7R2E105M230KA	C5750X7R2A105M230KA
	3225	0.00.0.00	±10%		C3225X7R2A155K200AB
	3225	2.00±0.20	±20%		C3225X7R2A155M200AB
1.5µF	4532	2.30±0.20	±10%		C4532X7R2A155K230KA
1.5µг			±20%		C4532X7R2A155M230KA
	5750	2.30±0.20	±10%		C5750X7R2A155K230KA
		2.30±0.20	±20%		C5750X7R2A155M230KA
	2012	1.25+0.25,-0.15	±10%		C2012X7R2A225K125AC
	3225	2.30±0.20	±10%		C3225X7R2A225K230AB
			±20%		C3225X7R2A225M230AB
2.2µF	4532	2.30±0.20	±10%		C4532X7R2A225K230KA
	4332		±20%		C4532X7R2A225M230KA
	5750	2.30±0.20	±10%		C5750X7R2A225K230KA
	5750	2.30±0.20	±20%		C5750X7R2A225M230KA
3.3µF	5750	2.30±0.20	±10%		C5750X7R2A335K230KA
3.3μΓ	5750	2.30±0.20	±20%		C5750X7R2A335M230KA
	3216	1.60+0.30,-0.10	±10%		C3216X7R2A475K160AC
4.7µF	5750	2.30±0.20	±10%		C5750X7R2A475K230KA
	3730	2.30±0.20	±20%		C5750X7R2A475M230KA
10μF	3225	2.50+0.35,-0.30	±10%		C3225X7R2A106K250AC

[■] 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: 100V
1nF	1005	0.50.005	±10%	C1005X7S2A102K050BB
InF	1005	0.50±0.05	±20%	C1005X7S2A102M050BB
1.5nF	1005	0.50.005	±10%	C1005X7S2A152K050BB
1.511	1005	0.50±0.05	±20%	C1005X7S2A152M050BB
2.2nF	1005	0.50±0.05	±10%	C1005X7S2A222K050BB
2.211	1005	0.50±0.05	±20%	C1005X7S2A222M050BB
3.3nF	1005	0.50±0.05	±10%	C1005X7S2A332K050BB
3.3111	1005	0.50±0.05	±20%	C1005X7S2A332M050BB
4.7nF	1005	0.50±0.05	±10%	C1005X7S2A472K050BB
4.7111	1005	0.50±0.05	±20%	C1005X7S2A472M050BB
6.8nF	1005	0.50±0.05	±10%	C1005X7S2A682K050BB
0.0111	1000	0.00±0.00	±20%	C1005X7S2A682M050BB
10nF	1005	0.50±0.05	±10%	C1005X7S2A103K050BB
		0.0020.00	±20%	C1005X7S2A103M050BB
33nF	1608	0.80±0.10	±10%	C1608X7S2A333K080AB
		0.0020.10	±20%	C1608X7S2A333M080AB
47nF	1608	0.80±0.10	±10%	C1608X7S2A473K080AB
		0.0020.10	±20%	C1608X7S2A473M080AB
68nF	1608	0.80±0.10	±10%	C1608X7S2A683K080AB
			±20%	C1608X7S2A683M080AB
100nF	1608	0.80±0.10	±10%	C1608X7S2A104K080AB
			±20%	C1608X7S2A104M080AB
150nF	2012	0.85±0.15	±10%	C2012X7S2A154K085AB
			±20%	C2012X7S2A154M085AB
220nF	2012	0.85±0.15	±10%	C2012X7S2A224K085AB
			±20%	C2012X7S2A224M085AB
330nF	2012	1.25±0.20	±10%	C2012X7S2A334K125AB
-			±20%	C2012X7S2A334M125AB
470nF	2012	1.25±0.20	±10%	C2012X7S2A474K125AB
			±20%	C2012X7S2A474M125AB
680nF	2012	1.25±0.20	±10%	C2012X7S2A684K125AB
			±20%	C2012X7S2A684M125AB
1µF	2012	1.25±0.20	±10%	C2012X7S2A105K125AB C2012X7S2A105M125AB
-			±20%	C3216X7S2A155K160AB
1.5µF	3216	1.60±0.20	±10%	C3216X7S2A155K160AB
-			±20%	C3216X7S2A225K160AB
2.2µF	3216	1.60±0.20	±10%	C3216X7S2A225K160AB
			±20% ±10%	C3216X7S2A325W160AB
	3216	1.60+0.30,-0.10	±10%	C3216X7S2A335M160AB
			±20%	C3225X7S2A335K200AB
3.3µF	3225	2.00±0.20	±20%	C3225X7S2A335M200AB
			±20%	C4532X7S2A335K200KB
	4532	2.00±0.20	±20%	C4532X7S2A335M200KB
			±20%	C3225X7S2A475K200AB
	3225	2.00±0.20	±20%	C3225X7S2A475M200AB
4.7µF			±20%	C4532X7S2A475K230KB
	4532	2.30±0.20	±20%	C4532X7S2A475M230KB
			±10%	C5750X7S2A685K200KB
6.8µF	5750	2.00±0.20	±20%	C5750X7S2A685M200KB
-			±10%	C5750X7S2A106K230KB
10μF	5750	2.30±0.20	±20%	C5750X7S2A106M230KB
15µF	5750	2.50±0.30	±20%	C5750X7S2A156M250KB
22µF	5750	2.80±0.30	±20%	C5750X7S2A226M280KB
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[■] 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: 630V	Rated voltage Edc: 450V	Rated voltage Edc: 350V	Rated voltage Edc: 250V
	2012	0.05.0.15	±10%	, , , , , , , , , , , , , , , , , , ,	C2012X7T2W103K085AA	C2012X7T2V103K085AA	g
10nF	2012	0.85±0.15	±20%		C2012X7T2W103M085AA	C2012X7T2V103M085AA	
TOTIF	3216	0.85±0.15	±10%	C3216X7T2J103K085AC			
	3210	0.05±0.15	±20%	C3216X7T2J103M085AC			
	2012	0.85±0.15	±10%		C2012X7T2W153K085AA	C2012X7T2V153K085AA	
15nF			±20%	0	C2012X7T2W153M085AA	C2012X7T2V153M085AA	
	3216	0.85±0.15	±10%	C3216X7T2J153K085AC			
			±20% ±10%	C3216X7T2J153M085AC	C2012X7T2W223K125AA	C0010V7T0\/000K10F	
	2012	1.25±0.20	±10%		C2012X7T2W223K125AA	C2012X7T2V223K125AA C2012X7T2V223M125AA	
22nF			±20%	C3216X7T2J223K115AC	OZUTZA/TZWZZSWITZSAA	OZO IZAT IZ VZZSIVI IZSAA	
	3216	1.15±0.15	±20%	C3216X7T2J223M115AC			
			±10%		C2012X7T2W333K125AA	C2012X7T2V333K125AA	C2012X7T2E333K125AA
	2012	1.25±0.20	±20%		C2012X7T2W333M125AA	C2012X7T2V333M125AA	C2012X7T2E333M125AA
33nF	0010	4.5.0.45	±10%	C3216X7T2J333K115AC			
	3216	1.15±0.15	±20%	C3216X7T2J333M115AC			
	2012	1.25±0.20	±10%		C2012X7T2W473K125AA	C2012X7T2V473K125AA	C2012X7T2E473K125AA
47nF	2012	1.23±0.20	±20%		C2012X7T2W473M125AA	C2012X7T2V473M125AA	C2012X7T2E473M125AA
37.111	3216	1.60±0.20	±10%	C3216X7T2J473K160AC			
	02.10		±20%	C3216X7T2J473M160AC			
	2012	1.25±0.20	±10%				C2012X7T2E683K125AA
68nF			±20%		000401/9701110011110	000401/7701/2221/122	C2012X7T2E683M125AA
	3216	1.30±0.20	±10%		C3216X7T2W683K130AA	C3216X7T2V683K130AA	
			±20%		C3216X7T2W683M130AA	C3216X7T2V683M130AA	00040\/7705404\/40544
	2012	1.25±0.20	±10% ±20%				C2012X7T2E104K125AA
			±20% ±10%		C3216X7T2W104K160AA	C3216X7T2V104K160AA	C2012X7T2E104M125AA
100nF 	3216 1.60±0.20	±10%		C3216X7T2W104M160AA	C3216X7T2V104K160AA		
			±10%	C3225X7T2J104K160AC	00210X/12W104W100AA	00210X/12V104W100AA	
	3225	1.60±0.20	±20%	C3225X7T2J104M160AC			
			±10%				C3216X7T2E154K130AA
	3216	1.30±0.20	±20%				C3216X7T2E154M130AA
			±10%	C3225X7T2J154K200AC			
150nF	3225 2.00	2.00±0.20	±20%	C3225X7T2J154M200AC			
	4500	1.00.0.00	±10%	C4532X7T2J154K160KC			
	4532	1.60±0.20	±20%	C4532X7T2J154M160KC			
	3216	1.60±0.20	±10%				C3216X7T2E224K160AA
			±20%				C3216X7T2E224M160AA
220nF	3225	2.00±0.20	±10%		C3225X7T2W224K200AA		
			±20%	0.4500)/770.100.41/0001/0	C3225X7T2W224M200AA		
	4532	2.00±0.20	±10%	C4532X7T2J224K200KC			
			±20%	C4532X7T2J224M200KC			
300nF	4532	2.50±0.30	±10%	C4532X7T2J304K250KA C4532X7T2J304M250KA			
			±20% ±10%	O-ROULAN I LUUUHINILUUNA			C3225X7T2E334K200AA
	3225	2.00±0.20	±10%				C3225X7T2E334M200AA
			±10%		C4532X7T2W334K160KA		
330nF	4532	1.60±0.20	±20%		C4532X7T2W334M160KA		
		0.00.000	±10%	C5750X7T2J334K200KC			
	5750	2.00±0.20	±20%	C5750X7T2J334M200KC			
	4522	2 20.0 20	±10%		C4532X7T2W474K230KA		
470nF	4532	2.30±0.20	±20%		C4532X7T2W474M230KA		
47 UHF	5750	2.50±0.30	±10%	C5750X7T2J474K250KC			
	3730	2.50±0.50	±20%	C5750X7T2J474M250KC			
	4532	1.60±0.20	±10%				C4532X7T2E684K160KA
680nF			±20%				C4532X7T2E684M160KA
- •	5750	2.00±0.20	±10%		C5750X7T2W684K200KA		
	· · · · · · · · · · · · · · · · · · ·		±20%		C5750X7T2W684M200KA		04500\/7765405\/055***
	4532	2.50±0.30	±10%				C4532X7T2E105K250KA
1µF			±20%		CEZEOVZTOM/40EI/OEO// A		C4532X7T2E105M250KA
	5750	2.50±0.30	±10%		C5750X7T2W105K250KA		
			±20%		C5750X7T2W105M250KA		C5750V7T0E155V000VA
1.5µF	5750	2.00±0.20	±10% ±20%				C5750X7T2E155K200KA C5750X7T2E155M200KA
			±20% ±10%				C5750X7T2E155W200KA
2.2µF	5750	2.50±0.30	±10%				C5750X7T2E225M250KA
			0,0				

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