



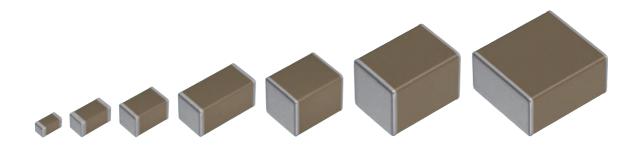
# MULTILAYER CERAMIC CHIP CAPACITORS

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]

<sup>\*</sup> 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**

Middle voltage C series, commercial grade of TDK's multilayer ceramic chip capacitor, is a product which has the high withstanding voltage characteristics. The lineup is voltage rating of 100V to 630V with capacitance range up to 22µF.

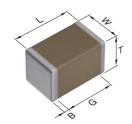
#### **FEATURES**

- Voltage rating of 100V, 250V, 350V, 450V and 630V
- COG and CH types which have excellent stable temperature and DCbias characteristics are available.

#### APPLICATIONS

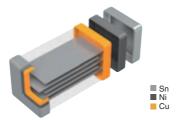
- Decoupling, smoothing, snubber and resonant circuits of high voltage circuits
- · Wireless Charging units, DC-DC converter, Inverter

#### **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.	_

<sup>\*</sup>Dimensional tolerances are typical values.



#### **CATALOG NUMBER CONSTRUCTION**

С	5750	X7S	2 <b>A</b>	226	M	280	K	В	
(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
СН	0±60 ppm/°C	–25 to +85°C
C0G	0±30 ppm/°C	–55 to +125°C
JB	±10%	–25 to +85°C
X5R	±15%	–55 to +85°C
X6S	±22%	–55 to +105℃
X7R	±15%	–55 to +125°C
X7S	±22%	–55 to +125℃
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

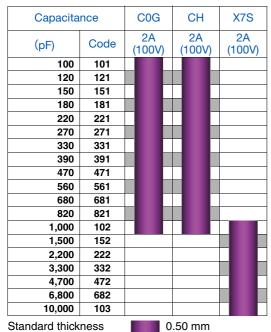
Code	Style	
A	178mm reel, 4mm pitch	
В	178mm reel, 2mm pitch	
K	178mm reel, 8mm pitch	

#### (9) Special reserved code

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



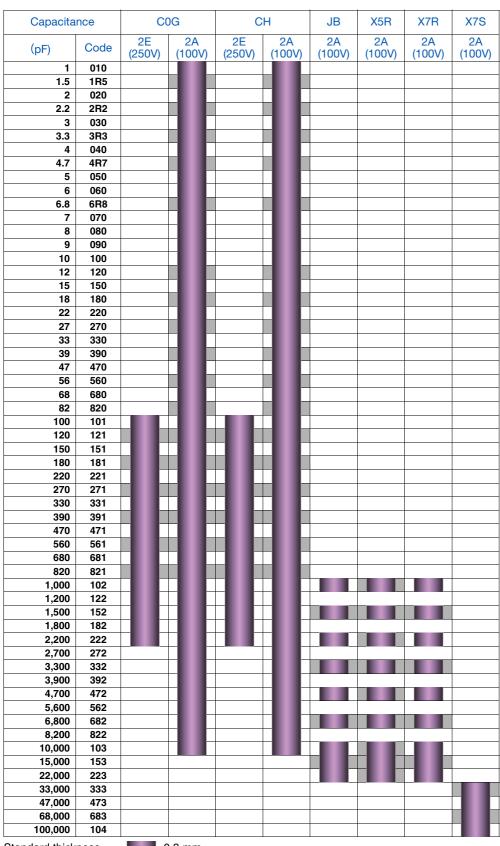
C1005 [0402 inch]



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



C1608 [0603 inch]



Standard thickness

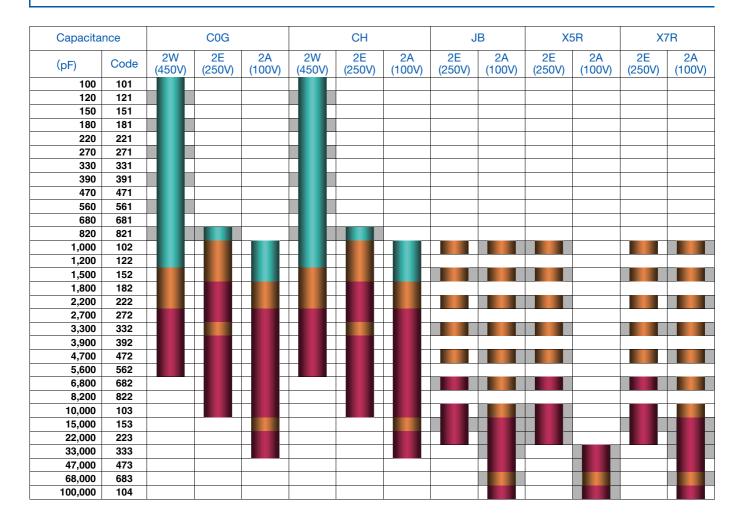
0.8 mm

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	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		0.60 mm	0	.85 mm

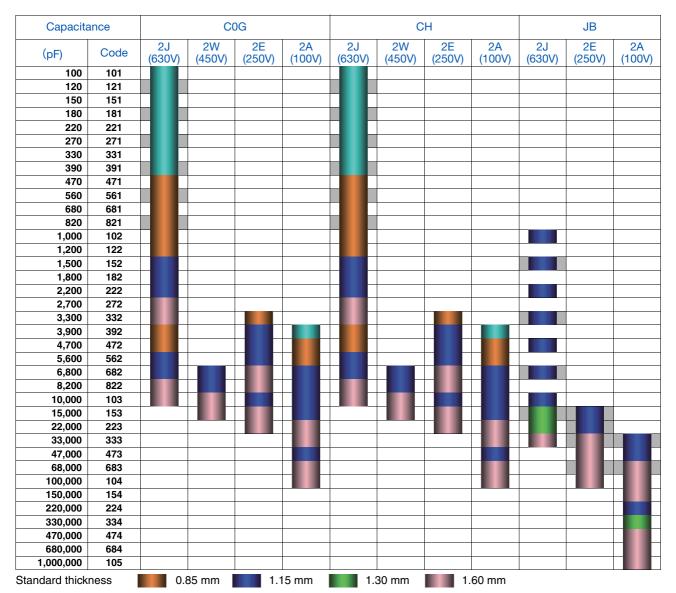
Background gray: These products are not recommended for new designs.

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

1.25 mm



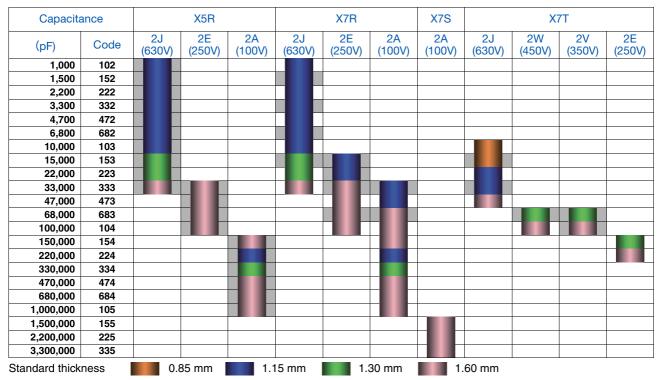
#### C3216 [1206 inch]



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



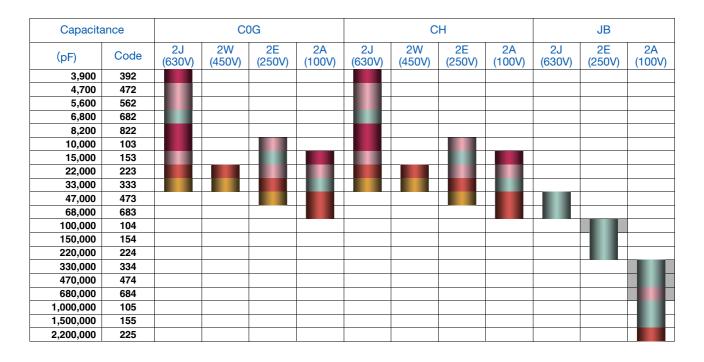
#### C3216 [1206 inch]

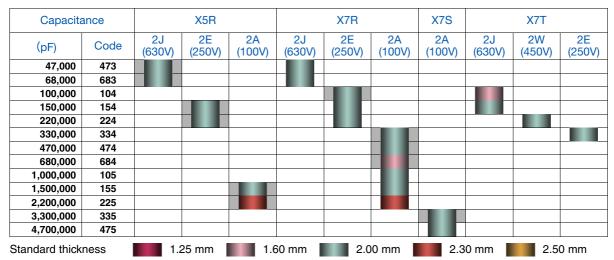


<sup>■</sup> For details such as the catalog numbers, please refer to the capacitance range table on page 13 and after.



#### C3225 [1210 inch]

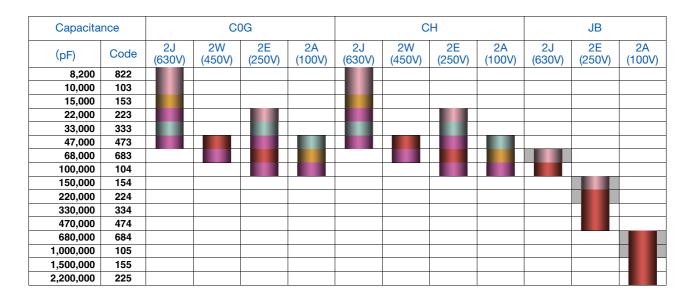


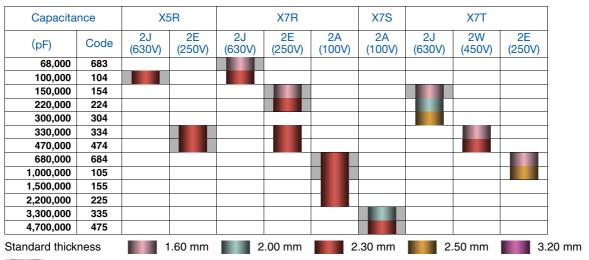


<sup>■</sup> For details such as the catalog numbers, please refer to the capacitance range table on page 13 and after.



#### C4532 [1812 inch]



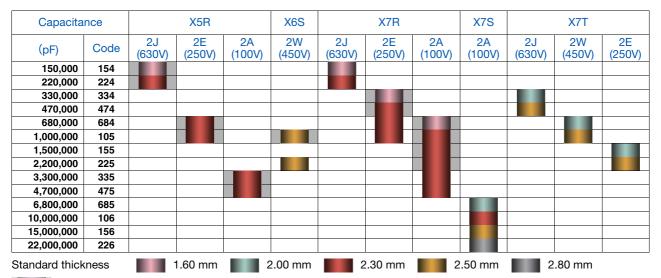


<sup>■</sup> For details such as the catalog numbers, please refer to the capacitance range table on page 13 and after.



#### C5750 [2220 inch]

Capacita	nce		C	)G	CH			Н			JB	
(pF)	Code	2J (630V)	2W (450V)	2E (250V)	2A (100V)	2J (630V)	2W (450V)	2E (250V)	2A (100V)	2J (630V)	2E (250V)	2A (100V)
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											



 $<sup>\</sup>blacksquare$  For details such as the catalog numbers, please refer to the capacitance range table on page 13 and after.



apacitance	Dimensions	Thickness (mm)	Capacitance tolerance	Catalog number Rated voltage Edc: 630V	Rated voltage Edc: 450V	Rated voltage Edc: 250V	Rated voltage Edc: 100
1pF	1608	0.80±0.10	±0.25pF		<b>g</b>		C1608C0G2A010C080A
1.5pF	1608	0.80±0.10	±0.25pF				C1608C0G2A1R5C080A
2pF	1608	0.80±0.10	±0.25pF				C1608C0G2A020C080A
2.2pF	1608	0.80±0.10	±0.25pF				C1608C0G2A2R2C080A
3pF	1608	0.80±0.10	±0.25pF				C1608C0G2A030C080A
3.3pF	1608	0.80±0.10	±0.25pF				C1608C0G2A3R3C080A
4pF	1608	0.80±0.10	±0.25pF				C1608C0G2A040C080A
4.7pF	1608	0.80±0.10	±0.25pF				C1608C0G2A4R7C080A
5pF	1608	0.80±0.10	±0.25pF				C1608C0G2A050C080A
6pF	1608	0.80±0.10	±0.50pF				C1608C0G2A060D080A
6.8pF	1608	0.80±0.10	±0.50pF				C1608C0G2A6R8D080A
7pF	1608	0.80±0.10	±0.50pF				C1608C0G2A070D080A
8pF	1608	0.80±0.10	±0.50pF				C1608C0G2A080D080A
9pF	1608	0.80±0.10	±0.50pF				C1608C0G2A090D080A
10pF	1608	0.80±0.10					
	1608		±0.50pF				C1608C0G2A100D080A
12pF		0.80±0.10	±5%				C1608C0G2A120J080A
15pF	1608	0.80±0.10	±5%				C1608C0G2A150J080A
18pF	1608	0.80±0.10	±5%				C1608C0G2A180J080A
22pF	1608	0.80±0.10	±5%				C1608C0G2A220J080A
27pF	1608	0.80±0.10	±5%				C1608C0G2A270J080A
33pF	1608	0.80±0.10	±5%				C1608C0G2A330J080A
39pF	1608	0.80±0.10	±5%				C1608C0G2A390J080A
47pF	1608	0.80±0.10	±5%				C1608C0G2A470J080A
56pF	1608	0.80±0.10	±5%				C1608C0G2A560J080A
68pF	1608	0.80±0.10	±5%				C1608C0G2A680J080A
82pF	1608	0.80±0.10	±5%				C1608C0G2A820J080A
	1005	0.50±0.05	±10%				C1005C0G2A101K050B
		0.0010.00	±5%				C1005C0G2A101J050B
			±10%			C1608C0G2E101K080AA	C1608C0G2A101K080A
	1608	0.80±0.10	±5%			C1608C0G2E101J080AA	C1608C0G2A101J080A
100pF	1000	0.00±0.10	±2%				C1608C0G2A101G080A
тоорг			±1%				C1608C0G2A101F080A
	2012	0.60±0.15	±10%		C2012C0G2W101K060AA		
	2012	0.00±0.15	±5%		C2012C0G2W101J060AA		
	2016	0.00.0.15	±10%	C3216C0G2J101K060AA			
	3216	0.60±0.15	±5%	C3216C0G2J101J060AA			
	1005	0.50.005	±10%				C1005C0G2A121K050B
	1005	0.50±0.05	±5%				C1005C0G2A121J050B
			±10%			C1608C0G2E121K080AA	C1608C0G2A121K080A
	1608	0.80±0.10	±5%			C1608C0G2E121J080AA	C1608C0G2A121J080A
120pF			±10%		C2012C0G2W121K060AA		
	2012	0.60±0.15	±5%		C2012C0G2W121J060AA		
			±10%	C3216C0G2J121K060AA			
	3216	0.60±0.15	±5%	C3216C0G2J121J060AA			
			±10%	00210000201210000AA			C1005C0G2A151K050B
	1005	0.50±0.05	±10%				C1005C0G2A151J050B
						C1609C0C2E1E1K090AA	
	1608	0.80±0.10	±10%			C1608C0G2E151K080AA	C1608C0G2A151K080A
150pF			±5%		00010000000445414000 * *	C1608C0G2E151J080AA	C1608C0G2A151J080A
	2012	0.60±0.15	±10%		C2012C0G2W151K060AA		
	-		±5%	00010000011-111-11	C2012C0G2W151J060AA		
	3216	0.60±0.15	±10%	C3216C0G2J151K060AA			
			±5%	C3216C0G2J151J060AA			
	1005	0.50±0.05	±10%				C1005C0G2A181K050B
		0.0020.00	±5%				C1005C0G2A181J050B
	1608	0.80±0.10	±10%			C1608C0G2E181K080AA	C1608C0G2A181K080A
180pF	1000	0.00±0.10	±5%			C1608C0G2E181J080AA	C1608C0G2A181J080A
roupi	2012	0.00.0.15	±10%		C2012C0G2W181K060AA		
	2012	0.60±0.15	±5%		C2012C0G2W181J060AA		
	0010	0.00.015	±10%	C3216C0G2J181K060AA			
	3216	0.60±0.15	±5%	C3216C0G2J181J060AA			
			±10%				C1005C0G2A221K050B
	1005	0.50±0.05	±5%				C1005C0G2A221J050B
	-		±10%			C1608C0G2E221K080AA	C1608C0G2A221K080A
	1608	0.80±0.10	±5%			C1608C0G2E221J080AA	C1608C0G2A221J080A
220pF			±5 /%		C2012C0G2W221K060AA	O TOUGOUGELEE TOUGUAA	01000000ZAZZ10000A
	2012	0.60±0.15					
	-		±5%	000100000 10011/0001	C2012C0G2W221J060AA		
	3216	0.60±0.15	±10%	C3216C0G2J221K060AA			
			±5%	C3216C0G2J221J060AA			

 $<sup>\</sup>blacksquare$  Gray items: These products are not recommended for new designs.



apacitance	Dimensions	Thickness (mm)	Capacitance tolerance	Catalog number Rated voltage Edc: 630V	Rated voltage Edc: 450V	Rated voltage Edc: 250V	Rated voltage Edc: 100
	1005	0.50±0.05	±10%				C1005C0G2A271K050BA
			±5%			C1000C0C0E071V000AA	C1005C0G2A271J050BA
	1608	0.80±0.10	±10% ±5%			C1608C0G2E271K080AA C1608C0G2E271J080AA	C1608C0G2A271K080A C1608C0G2A271J080A
270pF			±3%		C2012C0G2W271K060AA	C1000C0G2L2713000AA	C1000C0G2A2713000A
	2012	0.60±0.15	±5%		C2012C0G2W271J060AA		
	3216	0.00.0.15	±10%	C3216C0G2J271K060AA			
	3210	0.60±0.15	±5%	C3216C0G2J271J060AA			
	1005	0.50±0.05	±10%				C1005C0G2A331K050B
			±5%			0400000000000044	C1005C0G2A331J050B
	1608	0.80±0.10	±10% ±5%			C1608C0G2E331K080AA C1608C0G2E331J080AA	C1608C0G2A331K080A C1608C0G2A331J080A
330pF			±10%		C2012C0G2W331K060AA	01000000ZE0010000AA	01000000ZA0010000A
	2012	0.60±0.15	±5%		C2012C0G2W331J060AA		
	2016	0.00.0.15	±10%	C3216C0G2J331K060AA			
	3216	0.60±0.15	±5%	C3216C0G2J331J060AA			
	1005	0.50±0.05	±10%				C1005C0G2A391K050B
			±5%			0.1000000000000000000000000000000000000	C1005C0G2A391J050B
	1608	0.80±0.10	±10%			C1608C0G2E391K080AA	C1608C0G2A391K080A
390pF			±5% ±10%		C2012C0G2W391K060AA	C1608C0G2E391J080AA	C1608C0G2A391J080A
	2012	0.60±0.15	±5%		C2012C0G2W391J060AA		
			±10%	C3216C0G2J391K060AA			
	3216	0.60±0.15	±5%	C3216C0G2J391J060AA			
	1005	0.50±0.05	±10%				C1005C0G2A471K050B
		0.00±0.00	±5%				C1005C0G2A471J050B
	1608	0.80±0.10	±10%			C1608C0G2E471K080AA	C1608C0G2A471K080A
470pF			±5%		C2012C0C2W471K060AA	C1608C0G2E471J080AA	C1608C0G2A471J080A
	2012	0.60±0.15	±10% ±5%		C2012C0G2W471K060AA C2012C0G2W471J060AA		
			±10%	C3216C0G2J471K085AA	0201200021147100007111		
	3216	0.85±0.15	±5%	C3216C0G2J471J085AA			
	1005	0.50±0.05	±10%				C1005C0G2A561K050B
	1005	0.50±0.05	±5%				C1005C0G2A561J050B0
	1608	0.80±0.10	±10%			C1608C0G2E561K080AA	C1608C0G2A561K080A
560pF			±5%		C0010C0C0WEC1K0C0AA	C1608C0G2E561J080AA	C1608C0G2A561J080A
	2012	0.60±0.15	±10% ±5%		C2012C0G2W561K060AA C2012C0G2W561J060AA		
			±10%	C3216C0G2J561K085AA	02012000211000711		
	3216	0.85±0.15	±5%	C3216C0G2J561J085AA			
	1005	0.50.0.05	±10%				C1005C0G2A681K050B
	1005	0.50±0.05	±5%				C1005C0G2A681J050B
	1608	0.80±0.10	±10%			C1608C0G2E681K080AA	C1608C0G2A681K080A
680pF			±5%			C1608C0G2E681J080AA	C1608C0G2A681J080A
•	2012	0.60±0.15	±10%		C2012C0G2W681K060AA		
			±5% ±10%	C3216C0G2J681K085AA	C2012C0G2W681J060AA		
	3216	0.85±0.15	±5%	C3216C0G2J681J085AA			
	1005	0.50.005	±10%				C1005C0G2A821K050B
	1005	0.50±0.05	±5%				C1005C0G2A821J050B0
	1608	0.80±0.10	±10%			C1608C0G2E821K080AA	C1608C0G2A821K080A
820pF	1000	0.00±0.10	±5%			C1608C0G2E821J080AA	C1608C0G2A821J080A
	2012	0.60±0.15	±10%		C2012C0G2W821K060AA	C2012C0G2E821K060AA	
			±5%	C201 CC0C0 1001 K00E A A	C2012C0G2W821J060AA	C2012C0G2E821J060AA	
	3216	0.85±0.15	±10% ±5%	C3216C0G2J821K085AA C3216C0G2J821J085AA			
			±3%	302.0030400210000AA			C1005C0G2A102K050B
	1005	0.50±0.05	±5%				C1005C0G2A102J050B
			±10%			C1608C0G2E102K080AA	C1608C0G2A102K080A
	1608	0.80±0.10	±5%			C1608C0G2E102J080AA	C1608C0G2A102J080A
	1000	0.00±0.10	±2%				C1608C0G2A102G080A
1nF			±1%				C1608C0G2A102F080A
		0.60±0.15	±10%		C2012C0G2W102K060AA		0001000000410010004
	2012 —		±5% ±10%		C2012C0G2W102J060AA	C2012C0G2E102V00E	C2012C0G2A102J060A
		0.85±0.15	±10% ±5%			C2012C0G2E102K085AA C2012C0G2E102J085AA	
			±3%	C3216C0G2J102K085AA		520.20005AA	
	3216	0.85±0.15	±5%	C3216C0G2J102J085AA			

<sup>■</sup> Gray items: These products are not recommended for new designs.



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	0.80±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
1.2111	2012	0.85±0.15	±10%			C2012C0G2E122K085AA	
		0.05±0.15	±5%			C2012C0G2E122J085AA	
	3216	0.85±0.15	±10%	C3216C0G2J122K085AA			
	0210	0.0010.10	±5%	C3216C0G2J122J085AA			
	1608	0.80±0.10	±10%			C1608C0G2E152K080AA	C1608C0G2A152K080AA
	1000	0.0010.10	±5%			C1608C0G2E152J080AA	C1608C0G2A152J080AA
		0.60±0.15	±10%				C2012C0G2A152K060AA
1.5nF	2012 —		±5%				C2012C0G2A152J060AA
		0.85±0.15	±10%		C2012C0G2W152K085AA	C2012C0G2E152K085AA	
		0.0020.10	±5%		C2012C0G2W152J085AA	C2012C0G2E152J085AA	
	3216	1.15±0.15	±10%	C3216C0G2J152K115AA			
			±5%	C3216C0G2J152J115AA			
	1608	0.80±0.10	±10%			C1608C0G2E182K080AA	C1608C0G2A182K080AA
,			±5%			C1608C0G2E182J080AA	C1608C0G2A182J080AA
		0.85±0.15	±10%		C2012C0G2W182K085AA		C2012C0G2A182K085AA
1.8nF	2012 —		±5%		C2012C0G2W182J085AA		C2012C0G2A182J085AA
		1.25±0.20	±10%			C2012C0G2E182K125AA	
			±5%			C2012C0G2E182J125AA	
	3216	1.15±0.15	±10%	C3216C0G2J182K115AA			
			±5%	C3216C0G2J182J115AA			0
		0.80±0.10	±10%				C1608C0G2A222K080AA
	1608 —		±5%			0.1000.000.000.000.000.000.00	C1608C0G2A222J080AA
		0.80+0.15,-0.10	±10%			C1608C0G2E222K080AA	
,			±5%		000400000000000000000000000000000000000	C1608C0G2E222J080AA	000400000000000000000000000000000000000
2.2nF		0.85±0.15	±10%		C2012C0G2W222K085AA		C2012C0G2A222K085AA
	2012 -		±5%		C2012C0G2W222J085AA	00040000000000000000	C2012C0G2A222J085AA
		1.25±0.20	±10%			C2012C0G2E222K125AA	
			±5%	C2010C0C0 1000K11FAA		C2012C0G2E222J125AA	
	3216	1.15±0.15	±10%	C3216C0G2J222K115AA			
			±5% ±10%	C3216C0G2J222J115AA			C1608C0G2A272K080AA
	1608	0.80+0.15,-0.10	±10%				C1608C0G2A272J080AA
			±10%		C2012C0G2W272K125AA	C2012C0G2E272K125AA	C2012C0G2A272K125AA
2.7nF	2012	1.25±0.20	±10%		C2012C0G2W272J125AA	C2012C0G2E272J125AA	C2012C0G2A272J125AA
			±3%	C3216C0G2J272K160AA	020120002VV2120123AA	OZOTZOGGZEZ/ZOTZOAA	020120002A2120123AA
	3216	1.60±0.20	±10%	C3216C0G2J272J160AA			
			±10%	00210000202720100AA			C1608C0G2A332K080AA
	1608	0.80+0.15,-0.10	±5%				C1608C0G2A332J080AA
,			±10%			C2012C0G2E332K085AA	01000000011
		0.85±0.15	±10%			C2012C0G2E332J085AA	
	2012 —		±10%		C2012C0G2W332K125AA	120.200G2E00Z000AA	C2012C0G2A332K125AA
3.3nF		1.25±0.20	±10%		C2012C0G2W332J125AA		C2012C0G2A332J125AA
			±10%			C3216C0G2E332K085AA	
		0.85±0.15	±5%			C3216C0G2E332J085AA	
	3216 —		±10%	C3216C0G2J332K160AA			
		1.60±0.20	±5%	C3216C0G2J332J160AA			
			±10%				C1608C0G2A392K080AC
	1608	0.80±0.10	±5%				C1608C0G2A392J080AC
•			±10%		C2012C0G2W392K125AA	C2012C0G2E392K125AA	C2012C0G2A392K125AA
	2012	1.25±0.20	±5%		C2012C0G2W392J125AA	C2012C0G2E392J125AA	C2012C0G2A392J125AA
•			±10%				C3216C0G2A392K060AA
		0.60±0.15	±5%				C3216C0G2A392J060AA
3.9nF	_		±10%	C3216C0G2J392K085AA			_02.000 GE/100E0000AA
	3216	0.85±0.15	±5%	C3216C0G2J392J085AA			
	_		±10%			C3216C0G2E392K115AA	
		1.15±0.15	±5%			C3216C0G2E392J115AA	
			±10%	C3225C0G2J392K125AA		102.000G2E0020110/A	
	3225	1.25±0.20	0 /0	C3225C0G2J392J125AA			

<sup>■</sup> Gray items: These products are not recommended for new designs.



Capacitance	Dimensions	Thickness	Capacitance	Catalog number			
Capacitarice	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
-		0.00_0.10	±5%				C1608C0G2A472J080AC
	2012	1.25±0.20	±10%		C2012C0G2W472K125AA	C2012C0G2E472K125AA	C2012C0G2A472K125AA
	2012	1.2010.20	±5%		C2012C0G2W472J125AA	C2012C0G2E472J125AA	C2012C0G2A472J125AA
4.7nF		0.85±0.15	±10%	C3216C0G2J472K085AA			C3216C0G2A472K085AA
4.7111	3216 —	0.00±0.10	±5%	C3216C0G2J472J085AA			C3216C0G2A472J085AA
	3210	1.15±0.15	±10%			C3216C0G2E472K115AA	
		1.15±0.15	±5%			C3216C0G2E472J115AA	
	3225	1 60 . 0 20	±10%	C3225C0G2J472K160AA			
	3223	1.60±0.20	±5%	C3225C0G2J472J160AA			
	1000	0.00.0.40	±10%				C1608C0G2A562K080AC
	1608	0.80±0.10	±5%				C1608C0G2A562J080AC
-	2212		±10%		C2012C0G2W562K125AA	C2012C0G2E562K125AA	C2012C0G2A562K125AA
	2012	1.25±0.20	±5%		C2012C0G2W562J125AA	C2012C0G2E562J125AA	C2012C0G2A562J125AA
			±10%				C3216C0G2A562K085AA
5.6nF		0.85±0.15	±5%				C3216C0G2A562J085AA
	3216 —		±10%	C3216C0G2J562K115AA		C3216C0G2E562K115AA	
		1.15±0.15	±5%	C3216C0G2J562J115AA		C3216C0G2E562J115AA	
-			±10%	C3225C0G2J562K160AA		002100002E3020113AA	
	3225	1.60±0.20	±5%	C3225C0G2J562J160AA			
			±10%	C3223C0G233023100AA			C1609C0C2A692K090AC
	1608	0.80±0.10					C1608C0G2A682K080AC
-			±5%			00040000000000000000	C1608C0G2A682J080AC
	2012	1.25±0.20	±10%			C2012C0G2E682K125AA	C2012C0G2A682K125AA
-			±5%			C2012C0G2E682J125AA	C2012C0G2A682J125AA
6.8nF		1.15±0.15 16 ————————————————————————————————————	±10%	C3216C0G2J682K115AA	C3216C0G2W682K115AA		C3216C0G2A682K115AA
	3216 -		±5%	C3216C0G2J682J115AA	C3216C0G2W682J115AA		C3216C0G2A682J115AA
			±10%			C3216C0G2E682K160AA	
-			±5%			C3216C0G2E682J160AA	
	3225	2.00±0.20	±10%	C3225C0G2J682K200AA			
	3223	2.00±0.20	±5%	C3225C0G2J682J200AA			
	1000	0.80±0.10	±10%				C1608C0G2A822K080AC
	1608	0.60±0.10	±5%				C1608C0G2A822J080AC
•	0010	4.05.0.00	±10%			C2012C0G2E822K125AA	C2012C0G2A822K125AA
	2012	1.25±0.20	±5%			C2012C0G2E822J125AA	C2012C0G2A822J125AA
-			±10%		C3216C0G2W822K115AA		C3216C0G2A822K115AA
		1.15±0.15	±5%		C3216C0G2W822J115AA		C3216C0G2A822J115AA
8.2nF	3216 -		±10%	C3216C0G2J822K160AA		C3216C0G2E822K160AA	
		1.60±0.20	±5%	C3216C0G2J822J160AA		C3216C0G2E822J160AA	
=			±10%	C3225C0G2J822K125AA			
	3225	1.25±0.20	±5%	C3225C0G2J822J125AA			
-			±10%	C4532C0G2J822K160KA			
	4532	1.60±0.20	±5%	C4532C0G2J822J160KA			
			±10%	1.00100010010010010010010010010010010010			C1608C0G2A103K080AC
	1608	0.80±0.10	±5%				C1608C0G2A103J080AC
-						C2012C0G2E103K125AA	C2012C0G2A103K125AA
	2012	1.25±0.20	±10%				
·			±5%			C2012C0G2E103J125AA	C2012C0G2A103J125AA
		1.15±0.15	±10%			C3216C0G2E103K115AA	C3216C0G2A103K115AA
	3216 —		±5%	000400000 11001/1007	000400000111100111001	C3216C0G2E103J115AA	C3216C0G2A103J115AA
10nF		1.60±0.20	±10%	C3216C0G2J103K160AA	C3216C0G2W103K160AA		
			±5%	C3216C0G2J103J160AA	C3216C0G2W103J160AA		
		1.25±0.20	±10%	C3225C0G2J103K125AA			
	3225 —	0_0.20	±5%	C3225C0G2J103J125AA			
	OLLO	1.60±0.20	±10%			C3225C0G2E103K160AA	
		1.00±0.20	±5%			C3225C0G2E103J160AA	
	4500	1.60±0.20	±10%	C4532C0G2J103K160KA			
	4532						

<sup>■</sup> Gray items: These products are not recommended for new designs.



	Dimensions	(mm)	Capacitance tolerance	Catalog number Rated voltage Edc: 630V	Rated voltage Edc: 450V	Rated voltage Edc: 250V	Rated voltage Edc: 100
	2012	0.85±0.15	±10%				C2012C0G2A153K085A0
			±5% ±10%				C2012C0G2A153J085A0
		1.15±0.15	±10%				C3216C0G2A153K115A C3216C0G2A153J115A
	_		±10%			C3216C0G2E153K160AA	0021000027100011070
	3216	1.60±0.20	±5%			C3216C0G2E153J160AA	
	-	1.00.0.00.0.10	±10%		C3216C0G2W153K160AA		
15nF		1.60+0.30,-0.10	±5%		C3216C0G2W153J160AA		
ISHE		1.25±0.20	±10%				C3225C0G2A153K125A
	_	1.2020.20	±5%				C3225C0G2A153J125A
	3225	1.60±0.20	±10%	C3225C0G2J153K160AA			
	_		±5%	C3225C0G2J153J160AA		000000000000000000000000000000000000000	
		2.00±0.20	±10% ±5%			C3225C0G2E153K200AA C3225C0G2E153J200AA	
			±5% ±10%	C4532C0G2J153K250KA		C3225CUGZE 153J20UAA	
	4532	2.50±0.30	±10%	C4532C0G2J153J250KA			
			±10%	040020002013002301VA			C2012C0G2A223K125A
	2012	1.25±0.20	±5%				C2012C0G2A223J125A
		4.00.000	±10%				C3216C0G2A223K160A
	0010	1.60±0.20	±5%				C3216C0G2A223J160A
	3216 –	1 60 .0 20 0 10	±10%			C3216C0G2E223K160AA	
		1.60+0.30,-0.10	±5%			C3216C0G2E223J160AA	
22nF		1.60±0.20	±10%			C3225C0G2E223K160AA	C3225C0G2A223K160A
	3225 -	1.00±0.20	±5%			C3225C0G2E223J160AA	C3225C0G2A223J160A
		2.30±0.20	±10%	C3225C0G2J223K230AA	C3225C0G2W223K230AA		
			±5%	C3225C0G2J223J230AA	C3225C0G2W223J230AA	0.4500000050001400144	
		1.60±0.20	±10% ±5%			C4532C0G2E223K160KA	
	4532 -		±5% ±10%	C4532C0G2J223K320KA		C4532C0G2E223J160KA	
		3.20±0.30	±10%	C4532C0G2J223J320KA			
			±10%	O-100E00 GEOLEGOOLOTO (			C2012C0G2A333K125A
	2012	1.25±0.20	±5%				C2012C0G2A333J125A
•	0010	1.00.0.00.0.10	±10%				C3216C0G2A333K160A
	3216	1.60+0.30,-0.10	±5%				C3216C0G2A333J160A
		2.00±0.20	±10%				C3225C0G2A333K200A
33nF	_	2.00±0.20	±5%				C3225C0G2A333J200A
00	3225	2.30±0.20	±10%			C3225C0G2E333K230AA	
	_		±5%	00005000010001/05044	0000500000140001405044	C3225C0G2E333J230AA	
		2.50±0.30	±10%	C3225C0G2J333K250AA	C3225C0G2W333K250AA		
			±5% ±10%	C3225C0G2J333J250AA C4532C0G2J333K200KA	C3225C0G2W333J250AA	C4532C0G2E333K200KA	
	4532	2.00±0.20	±10%	C4532C0G2J333J200KA		C4532C0G2E333J200KA	
			±10%	04002000200002001VA		043020002L00002001VA	C3216C0G2A473K115A
	3216	1.15±0.15	±5%				C3216C0G2A473J115A
			±10%				C3225C0G2A473K230A
	0005	2.30±0.20	±5%				C3225C0G2A473J230A
	3225 –	2.50±0.30	±10%			C3225C0G2E473K250AA	
47nF		2.50±0.30	±5%			C3225C0G2E473J250AA	
4/11		2.00±0.20	±10%				C4532C0G2A473K200K
	_	2.0020.20	±5%				C4532C0G2A473J200K
	4532	2.30±0.20	±10%		C4532C0G2W473K230KA		
	_		±5%	0.450000000147014000144	C4532C0G2W473J230KA	0.150000005.1701/0001/4	
		3.20±0.30	±10%	C4532C0G2J473K320KA		C4532C0G2E473K320KA	
			±5%	C4532C0G2J473J320KA		C4532C0G2E473J320KA	C2216C0C2A622V160A
	3216	1.60±0.20	±10% ±5%				C3216C0G2A683K160A C3216C0G2A683J160A
•			±5% ±10%				C3225C0G2A683K230A
	3225	2.30±0.20	±5%				C3225C0G2A683J230A
		0.07	±10%			C4532C0G2E683K230KN	
60-5		2.30±0.20	±5%			C4532C0G2E683J230KN	
68nF	4500	0.50.0.00	±10%				C4532C0G2A683K250K
	4532	2.50±0.30	±5%				C4532C0G2A683J250K
	_	3.20±0.30	±10%		C4532C0G2W683K320KA		
		0.20±0.30	±5%		C4532C0G2W683J320KA		
	5750	2.30±0.20	±10%	C5750C0G2J683K230KC			
			±5%	C5750C0G2J683J230KC			

<sup>■</sup> Gray items: These products are not recommended for new designs.



Capacitance	Dimonoiono	Thickness	Capacitance	Catalog number			
Capacitance	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	4552	3.20±0.30	±5%			C4532C0G2E104J320KN	C4532C0G2A104J320KA
	5750	2.80±0.30	±10%	C5750C0G2J104K280KC	C5750C0G2W104K280KA		
	3730	2.60±0.30	±5%	C5750C0G2J104J280KC	C5750C0G2W104J280KA		
150nE	150nF 5750	2 20 - 0 20	±10%			C5750C0G2E154K230KN	C5750C0G2A154K230KA
13011		2.30±0.20	±5%			C5750C0G2E154J230KN	C5750C0G2A154J230KA

<sup>■</sup> Gray items: These products are not recommended for new designs.



Capacitance	Dimensions	Thickness (mm)	Capacitance tolerance	Catalog number Rated voltage Edc: 630V	Datad voltage Ede: 450V	Datad valtage Ede: 050V	Dated valtage Ede: 100\/
1pF	1608	0.80±0.10	±0.25pF	hateu voitage Euc. 650 v	Rated voltage Edc: 450V	Rated voltage Edc: 250V	Rated voltage Edc: 100V C1608CH2A010C080AA
1.5pF	1608	0.80±0.10	±0.25pF ±0.25pF				C1608CH2A0T0C080AA
2pF	1608	0.80±0.10	±0.25pF ±0.25pF				C1608CH2A020C080AA
2.2pF	1608	0.80±0.10	±0.25pF ±0.25pF				C1608CH2A2R2C080AA
3pF	1608	0.80±0.10	±0.25pF ±0.25pF				C1608CH2A030C080AA
3.3pF	1608	0.80±0.10	±0.25pF ±0.25pF				C1608CH2A3R3C080AA
4pF	1608	0.80±0.10	±0.25pF ±0.25pF				
	1608		· · · · · · · · · · · · · · · · · · ·				C1608CH2A040C080AA
4.7pF	1608	0.80±0.10	±0.25pF				C1608CH2A4R7C080AA
5pF 6pF	1608	0.80±0.10 0.80±0.10	±0.25pF ±0.50pF				C1608CH2A050C080AA
6.8pF	1608	0.80±0.10	±0.50pF				C1608CH2A060D080AA
7pF	1608	0.80±0.10	±0.50pF				C1608CH2A6R8D080AA C1608CH2A070D080AA
8pF	1608	0.80±0.10	±0.50pf				C1608CH2A080D080AA
9pF	1608	0.80±0.10	±0.50pF				C1608CH2A090D080AA
10pF	1608	0.80±0.10	±0.50pF				C1608CH2A100D080AA
12pF	1608	0.80±0.10	±5%				C1608CH2A120J080AA
15pF	1608	0.80±0.10	±5%				C1608CH2A150J080AA
18pF	1608	0.80±0.10	±5%				C1608CH2A180J080AA
22pF	1608	0.80±0.10	±5%				C1608CH2A220J080AA
27pF	1608	0.80±0.10	±5%				C1608CH2A270J080AA
33pF	1608	0.80±0.10	±5%				C1608CH2A330J080AA
39pF	1608	0.80±0.10	±5%				C1608CH2A390J080AA
47pF	1608	0.80±0.10	±5%				C1608CH2A470J080AA
56pF	1608	0.80±0.10	±5%				C1608CH2A560J080AA
68pF	1608	0.80±0.10	±5%				C1608CH2A680J080AA
82pF	1608	0.80±0.10	±5%				C1608CH2A820J080AA
02pi	1000	0.00±0.10	±10%				C1005CH2A101K050BA
	1005	0.50±0.05	±5%				C1005CH2A101J050BA
	-		±10%			C1608CH2E101K080AA	C1608CH2A101K080AA
	1608	0.80±0.10	±5%			C1608CH2E101J080AA	C1608CH2A101J080AA
100pF	-		±10%		C2012CH2W101K060AA	01000011221010000701	010000112711010000701
	2012	0.60±0.15	±5%		C2012CH2W101J060AA		
			±10%	C3216CH2J101K060AA	02012012111010000781		
	3216	0.60±0.15	±5%	C3216CH2J101J060AA			
			±10%				C1005CH2A121K050BA
	1005	0.50±0.05	±5%				C1005CH2A121J050BA
			±10%			C1608CH2E121K080AA	C1608CH2A121K080AA
	1608	0.80±0.10	±5%			C1608CH2E121J080AA	C1608CH2A121J080AA
120pF			±10%		C2012CH2W121K060AA		
	2012	0.60±0.15	±5%		C2012CH2W121J060AA		
			±10%	C3216CH2J121K060AA			
	3216	0.60±0.15	±5%	C3216CH2J121J060AA			
			±10%				C1005CH2A151K050BA
	1005	0.50±0.05	±5%				C1005CH2A151J050BA
			±10%			C1608CH2E151K080AA	C1608CH2A151K080AA
	1608	0.80±0.10	±5%			C1608CH2E151J080AA	C1608CH2A151J080AA
150pF	0010	0.00 0.15	±10%		C2012CH2W151K060AA		
	2012	0.60±0.15	±5%		C2012CH2W151J060AA		
	0010	0.00.045	±10%	C3216CH2J151K060AA			
	3216	0.60±0.15	±5%	C3216CH2J151J060AA			
	1005	0.50 : 0.05	±10%				C1005CH2A181K050BA
	1005	0.50±0.05	±5%				C1005CH2A181J050BA
	1000	0.00.0.40	±10%			C1608CH2E181K080AA	C1608CH2A181K080AA
100	1608	0.80±0.10	±5%			C1608CH2E181J080AA	C1608CH2A181J080AA
180pF	2012	0.00.0.15	±10%		C2012CH2W181K060AA		
	2012	0.60±0.15	±5%		C2012CH2W181J060AA		
	2016	0.60+0.45	±10%	C3216CH2J181K060AA			
	3216	0.60±0.15	±5%	C3216CH2J181J060AA			
	1005	0.50-0.05	±10%				C1005CH2A221K050BA
	1005	0.50±0.05	±5%				C1005CH2A221J050BA
	1600	0.00.0.10	±10%			C1608CH2E221K080AA	C1608CH2A221K080AA
22055	1608	0.80±0.10	±5%			C1608CH2E221J080AA	C1608CH2A221J080AA
220pF	2012	0.60-0.45	±10%		C2012CH2W221K060AA		
	2012	0.60±0.15	±5%	<u> </u>	C2012CH2W221J060AA		
	3216	0.60+0.45	±10%	C3216CH2J221K060AA			
	JZ 10	0.60±0.15	±5%	C3216CH2J221J060AA			

<sup>■</sup> Gray items: These products are not recommended for new designs.



-apaona ioo	Dimensions	Thickness (mm)	Capacitance _ tolerance	Catalog number Rated voltage Edc: 630V	Rated voltage Edc: 450V	Rated voltage Edc: 250V	Rated voltage Edc: 100\
	1005	0.50±0.05	±10% ±5%				C1005CH2A271K050BA
			±5% ±10%			C1608CH2E271K080AA	C1005CH2A271J050BA C1608CH2A271K080AA
	1608	0.80±0.10	±5%			C1608CH2E271X080AA	C1608CH2A271J080AA
270pF			±10%		C2012CH2W271K060AA	01000011222710000707	010000112712710000717
	2012	0.60±0.15	±5%		C2012CH2W271J060AA		
		0.00.045	±10%	C3216CH2J271K060AA			
	3216	0.60±0.15	±5%	C3216CH2J271J060AA			
	1005	0.50±0.05	±10%				C1005CH2A331K050BA
	1005	0.30±0.03	±5%				C1005CH2A331J050BA
	1608	0.80±0.10	±10%			C1608CH2E331K080AA	C1608CH2A331K080AA
330pF			±5%			C1608CH2E331J080AA	C1608CH2A331J080AA
·	2012	0.60±0.15	±10%		C2012CH2W331K060AA		
			±5% ±10%	C3216CH2J331K060AA	C2012CH2W331J060AA		
	3216	0.60±0.15	±5%	C3216CH2J331J060AA			
			±10%	00210011200010000AA			C1005CH2A391K050BA
	1005	0.50±0.05	±5%				C1005CH2A391J050BA
			±10%			C1608CH2E391K080AA	C1608CH2A391K080AA
000	1608	0.80±0.10	±5%			C1608CH2E391J080AA	C1608CH2A391J080AA
390pF	2012	0.60±0.15	±10%		C2012CH2W391K060AA		
	2012	0.00±0.15	±5%		C2012CH2W391J060AA		
	3216	0.60±0.15	±10%	C3216CH2J391K060AA			
	02.0	0.0020.10	±5%	C3216CH2J391J060AA			
	1005	0.50±0.05	±10%				C1005CH2A471K050BA
			±5%			04000011054741/00044	C1005CH2A471J050BA
	1608	0.80±0.10	±10% ±5%			C1608CH2E471K080AA C1608CH2E471J080AA	C1608CH2A471K080AA
470pF	-		±10%		C2012CH2W471K060AA	C1000CHZE471JU00AA	C1608CH2A471J080AA
	2012	0.60±0.15	±5%		C2012CH2W471J060AA		
			±10%	C3216CH2J471K085AA	0201201121141110000101		
	3216	0.85±0.15	±5%	C3216CH2J471J085AA			
	1005	0.50.005	±10%				C1005CH2A561K050BC
	1005	0.50±0.05	±5%				C1005CH2A561J050BC
	1608	0.80±0.10	±10%			C1608CH2E561K080AA	C1608CH2A561K080AA
560pF	1000	0.00±0.10	±5%			C1608CH2E561J080AA	C1608CH2A561J080AA
Зоорі	2012	0.60±0.15	±10%		C2012CH2W561K060AA		
		0.0020.10	±5%		C2012CH2W561J060AA		
	3216	0.85±0.15	±10%	C3216CH2J561K085AA			
			±5%	C3216CH2J561J085AA			04005011040041405000
	1005	0.50±0.05	±10% ±5%				C1005CH2A681K050BC C1005CH2A681J050BC
	-		±10%			C1608CH2E681K080AA	C1608CH2A681K080AA
	1608	0.80±0.10	±5%			C1608CH2E681J080AA	C1608CH2A681J080AA
680pF			±10%		C2012CH2W681K060AA	01000011220010000747	0100001127001000747
	2012	0.60±0.15	±5%		C2012CH2W681J060AA		
		0.05.0.45	±10%	C3216CH2J681K085AA			
	3216	0.85±0.15	±5%	C3216CH2J681J085AA			
	1005	0.50±0.05	±10%				C1005CH2A821K050BC
	1000	0.00±0.03	±5%				C1005CH2A821J050BC
	1608	0.80±0.10	±10%			C1608CH2E821K080AA	C1608CH2A821K080AA
820pF			±5%			C1608CH2E821J080AA	C1608CH2A821J080AA
·	2012	0.60±0.15	±10%		C2012CH2W821K060AA	C2012CH2E821K060AA	
			±5%	000100110100110054	C2012CH2W821J060AA	C2012CH2E821J060AA	
	3216	0.85±0.15	±10%	C3216CH2J821K085AA			
			±5% ±10%	C3216CH2J821J085AA			C1005CH2A102K050D0
	1005	0.50±0.05	±10%				C1005CH2A102K050B0 C1005CH2A102J050B0
			±10%			C1608CH2E102K080AA	C1608CH2A102K080AA
	1608	0.80±0.10	±5%			C1608CH2E102J080AA	C1608CH2A102J080AA
			±3%		C2012CH2W102K060AA	5.555511EE10E0000AA	3.333011E117020000AF
1nF		0.60±0.15	±5%		C2012CH2W102J060AA		C2012CH2A102J060AA
	2012 —	0.05.5.	±10%			C2012CH2E102K085AA	
2012		0.85±0.15				C2012CH2E102J085AA	
			±5%				
	3216	0.85±0.15	±5% ±10%	C3216CH2J102K085AA		0201201122102000741	

<sup>■</sup> Gray items: These products are not recommended for new designs.



Capacitance Dimensions		Thickness (mm)	Capacitance _ tolerance	Catalog number	Rated voltage Ede: 4501/	Rated voltage Ede: 2501/	Rated voltage Ede: 100\
		(111111)	±10%	Rated voltage Edc: 630V	Rated voltage Edc: 450V	Rated voltage Edc: 250V C1608CH2E122K080AA	Rated voltage Edc: 100\ C1608CH2A122K080AA
	1608	0.80±0.10					
-			±5%		C0040CU0W400K000AA	C1608CH2E122J080AA	C1608CH2A122J080AA
		0.60±0.15	±10%		C2012CH2W122K060AA		0004001104400100044
1.2nF	2012 -		±5%		C2012CH2W122J060AA	00040011054001/00544	C2012CH2A122J060AA
		0.85±0.15	±10%			C2012CH2E122K085AA	
-			±5%			C2012CH2E122J085AA	
	3216	0.85±0.15	±10%	C3216CH2J122K085AA			
			±5%	C3216CH2J122J085AA			
	1608	0.80±0.10	±10%			C1608CH2E152K080AA	C1608CH2A152K080AA
-			±5%			C1608CH2E152J080AA	C1608CH2A152J080AA
		0.60±0.15	±10%				C2012CH2A152K060AA
1.5nF	2012 -		±5%				C2012CH2A152J060AA
		0.85±0.15	±10%		C2012CH2W152K085AA	C2012CH2E152K085AA	
		0.0020.10	±5%		C2012CH2W152J085AA	C2012CH2E152J085AA	
	3216	1.15±0.15	±10%	C3216CH2J152K115AA			
	0210	1.10±0.10	±5%	C3216CH2J152J115AA			
	1608	0.80±0.10	±10%			C1608CH2E182K080AA	C1608CH2A182K080AA
	1000	0.00±0.10	±5%			C1608CH2E182J080AA	C1608CH2A182J080AA
-	-	0.85±0.15	±10%		C2012CH2W182K085AA		C2012CH2A182K085AA
1.8nF	2012 -	0.00±0.10	±5%		C2012CH2W182J085AA		C2012CH2A182J085AA
1.011	2012 -	1 25, 0 20	±10%			C2012CH2E182K125AA	
		1.25±0.20	±5%			C2012CH2E182J125AA	
-	0010	4.45.0.45	±10%	C3216CH2J182K115AA			
	3216	1.15±0.15	±5%	C3216CH2J182J115AA			
			±10%				C1608CH2A222K080AA
		0.80±0.10	±5%				C1608CH2A222J080AA
	1608 -	0.80+0.15 -0.10	±10%			C1608CH2E222K080AA	
		0.80+0.15,-0.10	±5%			C1608CH2E222J080AA	
-			±10%		C2012CH2W222K085AA	0.00001.EEEEE00007.81	C2012CH2A222K085AA
2.2nF		0.85±0.15	±5%		C2012CH2W222J085AA		C2012CH2A222J085AA
	2012 -		±10%		020120112442220000744	C2012CH2E222K125AA	OLO ILO ILI ILI ILLE COCCI II I
		1.25±0.20	±5%			C2012CH2E222J125AA	
-			±10%	C3216CH2J222K115AA		OZOTZOTIZEZZZOTZOAA	
	3216	1.15±0.15	±5%	C3216CH2J222J115AA			
			±10%	00210011202220113AA			C1608CH2A272K080AA
	1608	0.80+0.15,-0.10	±5%				C1608CH2A272J080AA
-					C2012CH2W272K125AA	C2012CH2E272K125AA	C2012CH2A272K125AA
2.7nF	2012	1.25±0.20	±10%		C2012CH2W272K125AA	C2012CH2E272J125AA	
-			±5%	C004 CCL IO 1070K4 C0 A A	G2012CH2W272J125AA	C2012CH2E2723125AA	C2012CH2A272J125AA
	3216	1.60±0.20	±10%	C3216CH2J272K160AA			
			±5%	C3216CH2J272J160AA			04000011040001400044
	1608	0.80+0.15,-0.10	±10%				C1608CH2A332K080AA
-			±5%			0004001105555455	C1608CH2A332J080AA
		0.85±0.15	±10%			C2012CH2E332K085AA	
	2012 -		±5%		0004001101/12221/122	C2012CH2E332J085AA	0001001101
3.3nF		1.25±0.20	±10%		C2012CH2W332K125AA		C2012CH2A332K125AA
-			±5%		C2012CH2W332J125AA		C2012CH2A332J125AA
		0.85±0.15	±10%			C3216CH2E332K085AA	
	3216 -		±5%			C3216CH2E332J085AA	
	32.10	1.60±0.20	±10%	C3216CH2J332K160AA			
			±5%	C3216CH2J332J160AA			
	1608	0.80±0.10	±10%				C1608CH2A392K080A0
	1000	0.00±0.10	±5%				C1608CH2A392J080AC
-	2012	1.05 / 0.00	±10%		C2012CH2W392K125AA	C2012CH2E392K125AA	C2012CH2A392K125AA
	2012	1.25±0.20	±5%		C2012CH2W392J125AA	C2012CH2E392J125AA	C2012CH2A392J125AA
=		0.00.0.15	±10%				C3216CH2A392K060AA
0.0 =		0.60±0.15	±5%				C3216CH2A392J060AA
3.9nF	-		±10%	C3216CH2J392K085AA			
	3216	0.85±0.15	±5%	C3216CH2J392J085AA			
	_		±10%			C3216CH2E392K115AA	
		1.15±0.15					
		1.10±0.10	+5%				
-		1.1020.10	±5% ±10%	C3225CH2J392K125AA		C3216CH2E392J115AA	

<sup>■</sup> Gray items: These products are not recommended for new designs.



Capacitance	Dimensions	Thickness	Capacitance	Catalog number			
- Capaona 100	2	(mm)	tolerance	Rated voltage Edc: 630V	Rated voltage Edc: 450V	Rated voltage Edc: 250V	Rated voltage Edc: 100V
	1608	0.80±0.10	±10%				C1608CH2A472K080AC
			±5%				C1608CH2A472J080AC
	2012	1.25±0.20	±10%		C2012CH2W472K125AA	C2012CH2E472K125AA	C2012CH2A472K125AA
			±5%		C2012CH2W472J125AA	C2012CH2E472J125AA	C2012CH2A472J125AA
4.7nF		0.85±0.15	±10%	C3216CH2J472K085AA			C3216CH2A472K085AA
	3216 -		±5%	C3216CH2J472J085AA			C3216CH2A472J085AA
	02.0	1.15±0.15	±10%			C3216CH2E472K115AA	
		0_00	±5%			C3216CH2E472J115AA	
	3225	1.60±0.20	±10%	C3225CH2J472K160AA			
	0220		±5%	C3225CH2J472J160AA			
	1608	0.80±0.10	±10%				C1608CH2A562K080AC
	1000	0.00±0.10	±5%				C1608CH2A562J080AC
	2012	1.25±0.20	±10%		C2012CH2W562K125AA	C2012CH2E562K125AA	C2012CH2A562K125AA
	2012	1.25±0.20	±5%		C2012CH2W562J125AA	C2012CH2E562J125AA	C2012CH2A562J125AA
5.6nF		0.85±0.15	±10%				C3216CH2A562K085AA
5.011	3216 —	0.65±0.15	±5%				C3216CH2A562J085AA
	3210	1 15.0 15	±10%	C3216CH2J562K115AA		C3216CH2E562K115AA	
		1.15±0.15	±5%	C3216CH2J562J115AA		C3216CH2E562J115AA	
	2005	1 00 0 00	±10%	C3225CH2J562K160AA			
	3225	1.60±0.20	±5%	C3225CH2J562J160AA			
	1000		±10%				C1608CH2A682K080AC
	1608	0.80±0.10	±5%				C1608CH2A682J080AC
			±10%			C2012CH2E682K125AA	C2012CH2A682K125AA
	2012	1.25±0.20	±5%			C2012CH2E682J125AA	C2012CH2A682J125AA
			±10%	C3216CH2J682K115AA	C3216CH2W682K115AA		C3216CH2A682K115AA
6.8nF		1.15±0.15	±5%	C3216CH2J682J115AA	C3216CH2W682J115AA		C3216CH2A682J115AA
	3216 —		±10%			C3216CH2E682K160AA	
		1.60±0.20	±5%			C3216CH2E682J160AA	
			±10%	C3225CH2J682K200AA			
	3225	2.00±0.20	±5%	C3225CH2J682J200AA			
			±10%				C1608CH2A822K080AC
	1608	0.80±0.10	±5%				C1608CH2A822J080AC
			±10%			C2012CH2E822K125AA	C2012CH2A822K125AA
	2012	1.25±0.20	±5%			C2012CH2E822J125AA	C2012CH2A822J125AA
			±3%		C3216CH2W822K115AA	OZOTZOTIZEOZZOTZOAA	C3216CH2A822K115AA
		1.15±0.15	±5%		C3216CH2W822J115AA		C3216CH2A822J115AA
8.2nF	3216 -			C3216CH2J822K160AA	C3210C112W0223113AA	C3216CH2E822K160AA	C3210CH2A0220113AA
		1.60±0.20	±10% ±5%	C3216CH2J822J160AA		C3216CH2E822J160AA	
						C3216CH2E622J160AA	
	3225	1.25±0.20	±10%	C3225CH2J822K125AA			
			±5%	C3225CH2J822J125AA			
	4532	1.60±0.20	±10%	C4532CH2J822K160KA			
			±5%	C4532CH2J822J160KA			04000011044001/00040
	1608	0.80±0.10	±10%				C1608CH2A103K080AC
			±5%				C1608CH2A103J080AC
	2012	1.25±0.20	±10%			C2012CH2E103K125AA	C2012CH2A103K125AA
			±5%			C2012CH2E103J125AA	C2012CH2A103J125AA
		1.15±0.15	±10%			C3216CH2E103K115AA	C3216CH2A103K115AA
	3216 —		±5%			C3216CH2E103J115AA	C3216CH2A103J115AA
10nF		1.60±0.20	±10%	C3216CH2J103K160AA	C3216CH2W103K160AA		
			±5%	C3216CH2J103J160AA	C3216CH2W103J160AA		
		1.25±0.20	±10%	C3225CH2J103K125AA			
	3225 —	1.2020.20	±5%	C3225CH2J103J125AA			
	J223 —	1 604 0 00	±10%			C3225CH2E103K160AA	
		1.60±0.20	±5%			C3225CH2E103J160AA	
	4532	1.00.0.00	±10%	C4532CH2J103K160KA			
	45.32	1.60±0.20	±5%	C4532CH2J103J160KA			

<sup>■</sup> Gray items: These products are not recommended for new designs.



apacitance	Dimensions	Thickness (mm)	Capacitance tolerance	Catalog number Rated voltage Edc: 630V	Rated voltage Edc: 450V	Rated voltage Edc: 250V	Rated voltage Edc: 10
	2012	0.85±0.15	±10%				C2012CH2A153K085A
		0.0020.10	±5%				C2012CH2A153J085A
		1.15±0.15	±10%				C3216CH2A153K115A
	_	1.10±0.10	±5%				C3216CH2A153J115A
	3216	1.60±0.20	±10%			C3216CH2E153K160AA	
	-	1.00±0.20	±5%			C3216CH2E153J160AA	
		1.60+0.30,-0.10	±10%		C3216CH2W153K160AA		
15nF		1.00+0.00,-0.10	±5%		C3216CH2W153J160AA		
10111		1.25±0.20	±10%				C3225CH2A153K125A
	_	1.2310.20	±5%				C3225CH2A153J125A
	3225	1.60±0.20	±10%	C3225CH2J153K160AA			
	3223	1.00±0.20	±5%	C3225CH2J153J160AA			
		2.00±0.20	±10%			C3225CH2E153K200AA	
		2.00±0.20	±5%			C3225CH2E153J200AA	
	4532	2.50±0.30	±10%	C4532CH2J153K250KA			
	4552	2.50±0.50	±5%	C4532CH2J153J250KA			
	2012	1.05.0.00	±10%				C2012CH2A223K125/
	2012	1.25±0.20	±5%				C2012CH2A223J125A
		1 604 0 20	±10%				C3216CH2A223K160A
	2216	1.60±0.20	±5%				C3216CH2A223J160A
	3216 -	160.000.010	±10%			C3216CH2E223K160AA	
		1.60+0.30,-0.10	±5%			C3216CH2E223J160AA	
00-5	-	1.00.0.00	±10%			C3225CH2E223K160AA	C3225CH2A223K160/
22nF	2005	1.60±0.20	±5%			C3225CH2E223J160AA	C3225CH2A223J160A
	3225 -	0.00.000	±10%	C3225CH2J223K230AA	C3225CH2W223K230AA		
		2.30±0.20	±5%	C3225CH2J223J230AA	C3225CH2W223J230AA		
			±10%			C4532CH2E223K160KA	
	4500	1.60±0.20	±5%			C4532CH2E223J160KA	
	4532 -		±10%	C4532CH2J223K320KA			
		3.20±0.30	±5%	C4532CH2J223J320KA			
			±10%				C2012CH2A333K125
	2012	1.25±0.20	±5%				C2012CH2A333J125
			±10%				C3216CH2A333K160
	3216	1.60+0.30,-0.10	±5%				C3216CH2A333J160/
	-		±10%				C3225CH2A333K200
		2.00±0.20	±5%				C3225CH2A333J200/
33nF			±10%			C3225CH2E333K230AA	
	3225	2.30±0.20	±5%			C3225CH2E333J230AA	
	_		±10%	C3225CH2J333K250AA	C3225CH2W333K250AA		
		2.50±0.30	±5%	C3225CH2J333J250AA	C3225CH2W333J250AA		
			±5%	C4532CH2J333J200KA		C4532CH2E333J200KA	
	4532	2.00±0.20	±10%			C4532CH2E333K200KA	
			±10%				C3216CH2A473K115A
	3216	1.15±0.15	±5%				C3216CH2A473J115A
			±10%				C3225CH2A473K230A
		2.30±0.20	±5%				C3225CH2A473J230A
	3225 -		±10%			C3225CH2E473K250AA	
		2.50±0.30	±5%			C3225CH2E473J250AA	
47nF			±10%				C4532CH2A473K200I
		2.00±0.20	±5%				C4532CH2A473J200h
	-		±10%		C4532CH2W473K230KA		
	4532	2.30±0.20	±5%		C4532CH2W473J230KA		
	-		±10%	C4532CH2J473K320KA		C4532CH2E473K320KA	
		3.20±0.30	±5%	C4532CH2J473J320KA		C4532CH2E473J320KA	
			±10%				C3216CH2A683K160
	3216	1.60±0.20	±5%				C3216CH2A683J160A
			±10%				C3225CH2A683K230
	3225	2.30±0.20	±5%				C3225CH2A683J230A
			±10%			C4532CH2E683K230KN	111111111111111111111111111111111111111
		2.30±0.20	±5%			C4532CH2E683J230KN	
68nF	=		±10%			3.3323112E00002001114	C4532CH2A683K250I
	4532	2.50±0.30	±5%				C4532CH2A683J250h
	=		±10%		C4532CH2W683K320KA		0-10020112A00002301
		3.20±0.30	±5%		C4532CH2W683J320KA		
			±10%	C5750CH2J683K230KC	OTOGEOFIE PROGOGEONA		
	5750	2.30±0.20	±5%	C5750CH2J683J230KC			
			±J /0	00100011200001200NU			

<sup>■</sup> Gray items: These products are not recommended for new designs.



Capacitance	Dimensions	Thickness	Capacitance	Catalog number			
Capacitance	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%				C3216CH2A104K160AC
	3210	1.60±0.20	±5%				C3216CH2A104J160AC
100nF	4532	3.20±0.30	±10%			C4532CH2E104K320KN	C4532CH2A104K320KA
TOOTIF	4532	3.20±0.30	±5%			C4532CH2E104J320KN	C4532CH2A104J320KA
	5750	2.80±0.30	±10%	C5750CH2J104K280KC	C5750CH2W104K280KA		
	5750	2.80±0.30	±5%	C5750CH2J104J280KC	C5750CH2W104J280KA		
150nF	5750	2.30±0.20	±10%			C5750CH2E154K230KN	C5750CH2A154K230KA
ISUIIF	5750	2.30±0.20	±5%			C5750CH2E154J230KN	C5750CH2A154J230KA

<sup>■</sup> Gray items: These products are not recommended for new designs.



Capacitance	Dimensions	Thickness	Capacitance _	Catalog number	D. I. I. E. 1 050V	D
		(mm)	tolerance	Rated voltage Edc: 630V	Rated voltage Edc: 250V	Rated voltage Edc: 100V
	1608	0.80±0.10	±10%			C1608JB2A102K080AA
			±20% ±10%		C2012JB2E102K085AA	C1608JB2A102M080AA C2012JB2A102K085AA
1nF	2012	0.85±0.15	±20%		C2012JB2E102M085AA	C2012JB2A102M085AA
			±10%	C3216JB2J102K115AA	CZ01Z3BZL10ZWI003AA	020120B2A102IVI003AA
	3216	1.15±0.15	±20%	C3216JB2J102M115AA		
			±10%	00210002010210701		C1608JB2A152K080AA
	1608	0.80±0.10	±20%			C1608JB2A152M080AA
			±10%		C2012JB2E152K085AA	C2012JB2A152K085AA
1.5nF	2012	0.85±0.15	±20%		C2012JB2E152M085AA	C2012JB2A152M085AA
			±10%	C3216JB2J152K115AA		
	3216	1.15±0.15	±20%	C3216JB2J152M115AA		
	4000	0.00.040	±10%			C1608JB2A222K080AA
	1608	0.80±0.10	±20%			C1608JB2A222M080AA
0.0=	0010	0.05.0.15	±10%		C2012JB2E222K085AA	C2012JB2A222K085AA
2.2nF	2012	0.85±0.15	±20%		C2012JB2E222M085AA	C2012JB2A222M085AA
	2016	1 15.0 15	±10%	C3216JB2J222K115AA		
	3216	1.15±0.15	±20%	C3216JB2J222M115AA		
	1608	0.80±0.10	±10%			C1608JB2A332K080AA
	1000	0.00±0.10	±20%			C1608JB2A332M080AA
3.3nF	2012	0.85±0.15	±10%		C2012JB2E332K085AA	C2012JB2A332K085AA
3.0111		5.50±0.10	±20%		C2012JB2E332M085AA	C2012JB2A332M085AA
	3216	1.15±0.15	±10%	C3216JB2J332K115AA		
	02.0	0_00	±20%	C3216JB2J332M115AA		
	1608	0.80±0.10	±10%			C1608JB2A472K080AA
			±20%			C1608JB2A472M080AA
4.7nF	2012	0.85±0.15	±10%		C2012JB2E472K085AA	C2012JB2A472K085AA
			±20%	000401001470144544	C2012JB2E472M085AA	C2012JB2A472M085AA
	3216	1.15±0.15	±10%	C3216JB2J472K115AA		
			±20%	C3216JB2J472M115AA		C1000 IB0 4 000 K000 A A
	1608	0.80±0.10	±10%			C1608JB2A682K080AA
			±20% ±10%			C1608JB2A682M080AA C2012JB2A682K085AA
		0.85±0.15	±20%			C2012JB2A682M085AA
6.8nF	2012 -		±10%		C2012JB2E682K125AA	G2012JB2A082IVIU63AA
		1.25±0.20	±20%		C2012JB2E682M125AA	
	-		±10%	C3216JB2J682K115AA	CLOTZUBELOUZINITZO/UT	
	3216	1.15±0.15	±20%	C3216JB2J682M115AA		
			±10%	0021002200211110701		C1608JB2A103K080AA
	1608	0.80±0.10	±20%			C1608JB2A103M080AA
			±10%			C2012JB2A103K085AA
		0.85±0.15	±20%			C2012JB2A103M085AA
10nF	2012 -	405.000	±10%		C2012JB2E103K125AA	
		1.25±0.20	±20%		C2012JB2E103M125AA	
	2010	1.15.0.15	±10%	C3216JB2J103K115AA		
	3216	1.15±0.15	±20%	C3216JB2J103M115AA		
	1608	0.80±0.10	±10%			C1608JB2A153K080AA
	1000	0.00±0.10	±20%			C1608JB2A153M080AA
	2012	1.25±0.20	±10%		C2012JB2E153K125AA	C2012JB2A153K125AA
15nF		1.2010.20	±20%		C2012JB2E153M125AA	C2012JB2A153M125AA
		1.15±0.15	±10%		C3216JB2E153K115AA	
	3216 -		±20%		C3216JB2E153M115AA	
		1.30±0.20	±10%	C3216JB2J153K130AA		
			±20%	C3216JB2J153M130AA		
	1608	0.80±0.10	±10%			C1608JB2A223K080AA
			±20%		00040 ID0E0001/40544	C1608JB2A223M080AA
	2012	1.25±0.20	±10%		C2012JB2E223K125AA	C2012JB2A223K125AA
22nF			±20%		C2012JB2E223M125AA C3216JB2E223K115AA	C2012JB2A223M125AA
		1.15±0.15	±10% ±20%		C3216JB2E223K115AA C3216JB2E223M115AA	
	3216 -		±20%	C3216JB2J223K130AA	JOLIOUDELEZOWITIJAA	
		1.30±0.20	±20%	C3216JB2J223M130AA		
			±10%	SSE 100DE0EESIWI ISOAA		C2012JB2A333K125AA
	2012	1.25±0.20	±20%			C2012JB2A333M125AA
	-		±10%			C3216JB2A333K115AA
33nF		1.15±0.15	±20%			C3216JB2A333M115AA
	3216 -		±10%	C3216JB2J333K160AA	C3216JB2E333K160AA	JOL TOODE TOOONT TOAK
		1.60±0.20	±20%	C3216JB2J333M160AA	C3216JB2E333M160AA	

<sup>■</sup> Gray items: These products are not recommended for new designs.



Capacitance	Dimensions	Thickness (mm)	Capacitance _ tolerance	Catalog number Rated voltage Edc: 630V	Rated voltage Edc: 250V	Rated voltage Edc: 100V
	0010	1.05.0.00	±10%		-	C2012JB2A473K125AA
	2012	1.25±0.20	±20%			C2012JB2A473M125AA
	•	1.15±0.15	±10%			C3216JB2A473K115AA
47nF	3216 -	1.10±0.10	±20%			C3216JB2A473M115AA
77111	3210	1.60±0.20	±10%		C3216JB2E473K160AA	
		1.00±0.20	±20%		C3216JB2E473M160AA	
	3225	2.00±0.20	±10%	C3225JB2J473K200AA		
	0220	2.00±0.20	±20%	C3225JB2J473M200AA		
	2012	0.85±0.15	±10%			C2012JB2A683K085AA
		0.0020.10	±20%			C2012JB2A683M085AA
	3216	1.60±0.20	±10%		C3216JB2E683K160AA	C3216JB2A683K160AA
68nF		1.0020.20	±20%		C3216JB2E683M160AA	C3216JB2A683M160AA
00	3225	2.00±0.20	±10%	C3225JB2J683K200AA		
			±20%	C3225JB2J683M200AA		
	4532	1.60±0.20	±10%	C4532JB2J683K160KA		
			±20%	C4532JB2J683M160KA		
	2012	1.25±0.20	±10%			C2012JB2A104K125AA
			±20%			C2012JB2A104M125AA
	3216	1.60±0.20	±10%		C3216JB2E104K160AA	C3216JB2A104K160AA
100nF			±20%		C3216JB2E104M160AA	C3216JB2A104M160AA
	3225	2.00±0.20	±10%		C3225JB2E104K200AA	
			±20%	04500 ID0 Iv0 (1/000)/	C3225JB2E104M200AA	
	4532	2.30±0.20	±10%	C4532JB2J104K230KA		
			±20%	C4532JB2J104M230KA		00040 ID0445 4/440044
	3216	1.60±0.20	±10%			C3216JB2A154K160AA
			±20%		00005 100545 41/0004 4	C3216JB2A154M160AA
	3225	2.00±0.20	±10%		C3225JB2E154K200AA	
150nF			±20%		C3225JB2E154M200AA	
	4532	1.60±0.20	±10%		C4532JB2E154K160KA	
			±20%	05750 ID0 I45 41/4001/A	C4532JB2E154M160KA	
	5750	1.60±0.20	±10%	C5750JB2J154K160KA		
			±20%	C5750JB2J154M160KA		C0016 ID04004K11544
	3216	1.15±0.15	±10%			C3216JB2A224K115AA
			±20%		COOR IROEOGAKOOGAA	C3216JB2A224M115AA
	3225	2.00±0.20	±10% ±20%		C3225JB2E224K200AA C3225JB2E224M200AA	
220nF						
	4532	2.30±0.20	±10% ±20%		C4532JB2E224K230KA C4532JB2E224M230KA	
	-		±10%	C5750JB2J224K230KA	C4532JB2E224W25URA	
	5750	2.30±0.20	±20%	C5750JB2J224M230KA		
			±10%	C3730JB2J224W230KA		C3216JB2A334K130AA
	3216	1.30±0.20	±20%			C3216JB2A334M130AA
			±10%			C3225JB2A334K200AA
	3225	2.00±0.20	±20%			C3225JB2A334M200AA
330nF			±10%		C4532JB2E334K230KA	032233B2A334W200AA
	4532	2.30±0.20	±20%		C4532JB2E334M230KA	
			±10%		C5750JB2E334K160KA	
	5750	1.60±0.20	±20%		C5750JB2E334M160KA	
			±10%		33.333DLLGG-WITOUTA	C3216JB2A474K160AA
	3216	1.60±0.20	±20%			C3216JB2A474M160AA
			±10%			C3225JB2A474K100AA
	3225	2.00±0.20	±20%			C3225JB2A474M200AA
470nF			±10%		C4532JB2E474K230KA	JOLLOUDL/14/ 4/VILOUMA
	4532	2.30±0.20	±20%		C4532JB2E474M230KA	
			±10%		C5750JB2E474K230KA	
	5750	2.30±0.20	±20%		C5750JB2E474M230KA	
			±10%		30.000BEET/TIMEOUT	C3216JB2A684K160AA
	3216	1.60±0.20	±20%			C3216JB2A684M160AA
			±10%			C3225JB2A684K160AA
	3225	1.60±0.20	±20%			C3225JB2A684M160AA
			±10%			C4532JB2A684K230KA
680nF	4532	2.30±0.20	±20%			C4532JB2A684M230KA
			±10%			C5750JB2A684K160KA
		1.60±0.20	±20%			C5750JB2A684M160KA
	5750 —		±10%		C5750JB2E684K230KA	JOI GOODLAGOTIVI I GORA
		2.30±0.20	±20%		C5750JB2E684M230KA	
			±£U /0		337300DZE004WZ30NA	

<sup>■</sup> Gray items: These products are not recommended for new designs.



Capacitance Dimensions		Capacitance	Catalog number		
Dimensions	(mm)	tolerance	Rated voltage Edc: 250V	Rated voltage Edc: 100V	
2016	1.00.0.00	±10%		C3216JB2A105K160AA	
3210	1.60±0.20	±20%		C3216JB2A105M160AA	
2225	2.00.0.20	±10%		C3225JB2A105K200AA	
3223	2.00±0.20	±20%		C3225JB2A105M200AA	
4500	2 20 . 0 20	±10%		C4532JB2A105K230KA	
4532	2.30±0.20	±20%		C4532JB2A105M230KA	
E7E0	2 20 . 0 20	±10%	C5750JB2E105K230KA	C5750JB2A105K230KA	
5750	2.30±0.20	±20%	C5750JB2E105M230KA	C5750JB2A105M230KA	
2225	2.00.0.20	±10%		C3225JB2A155K200AB	
3223	3223	2.00±0.20	±20%		C3225JB2A155M200AB
4520	4500	0.00.0.00	±10%		C4532JB2A155K230KA
4532	2.30±0.20	±20%		C4532JB2A155M230KA	
E7E0	2 20 . 0 20	±10%		C5750JB2A155K230KA	
5750	2.30±0.20	±20%		C5750JB2A155M230KA	
2005	0.00.0.00	±10%		C3225JB2A225K230AB	
3225	2.30±0.20	±20%		C3225JB2A225M230AB	
4500	0.00.0.00	±10%		C4532JB2A225K230KA	
4532	2.30±0.20	±20%		C4532JB2A225M230KA	
F750	0.00.0.00	±10%		C5750JB2A225K230KA	
5/50	2.30±0.20	±20%		C5750JB2A225M230KA	
F750	0.00.0.00	±10%		C5750JB2A335K230KA	
5/50	∠.30±0.20	±20%		C5750JB2A335M230KA	
E750	2 20 . 0 20	±10%		C5750JB2A475K230KA	
5/30	2.30±0.20	±20%		C5750JB2A475M230KA	
	3216 3225	(mm)  3216	Dimensions         (mm)         tolerance           3216         1.60±0.20         ±10%           3225         2.00±0.20         ±10%           4532         2.30±0.20         ±10%           5750         2.30±0.20         ±10%           420%         ±20%           3225         2.00±0.20         ±10%           4532         2.30±0.20         ±10%           5750         2.30±0.20         ±10%           420%         3225         2.30±0.20           4532         2.30±0.20         ±10%           4532         2.30±0.20         ±10%           4532         2.30±0.20         ±10%           5750         2.30±0.20         ±10%           5750         2.30±0.20         ±10%           5750         2.30±0.20         ±10%           5750         2.30±0.20         ±10%           5750         2.30±0.20         ±10%           5750         2.30±0.20         ±10%           5750         2.30±0.20         ±10%           ±20%         ±10%	Dimensions	

<sup>■</sup> Gray items: These products are not recommended for new designs.



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

apacitance	Dimensions	Thickness (mm)	Capacitance tolerance	Rated voltage Edc: 630V	Rated voltage Edc: 250V	Rated voltage Edc: 100\
	1608	0.80±0.10	±10% ±20%			C1608X5R2A102K080AA C1608X5R2A102M080AA
			±20%		C2012X5R2E102K085AA	C 1000A3HZA 10ZIVI00UA/
1nF	2012	0.85±0.15	±20%		C2012X5R2E102M085AA	
	3216	1.15±0.15	±10%	C3216X5R2J102K115AA		
	3210	1.15±0.15	±20%	C3216X5R2J102M115AA		
	1608	0.80±0.10	±10%			C1608X5R2A152K080AA
			±20%		000407/20024207/00244	C1608X5R2A152M080A
1.5nF	2012	0.85±0.15	±10% ±20%		C2012X5R2E152K085AA C2012X5R2E152M085AA	
			±10%	C3216X5R2J152K115AA	OZUTZAJNZL TJZWOOJAA	
	3216	1.15±0.15	±20%	C3216X5R2J152M115AA		
	1608	0.80±0.10	±10%			C1608X5R2A222K080A/
	1000	0.60±0.10	±20%			C1608X5R2A222M080A
2.2nF	2012	0.85±0.15	±10%		C2012X5R2E222K085AA	
			±20%	00040V5D0 1000V445 A A	C2012X5R2E222M085AA	
	3216	1.15±0.15	±10%	C3216X5R2J222K115AA		
			±20% ±10%	C3216X5R2J222M115AA		C1608X5R2A332K080AA
	1608	0.80±0.10	±20%			C1608X5R2A332M080A
0.0-5		0.05.0.45	±10%		C2012X5R2E332K085AA	
3.3nF	2012	0.85±0.15	±20%		C2012X5R2E332M085AA	
	3216	1.15±0.15	±10%	C3216X5R2J332K115AA		
	0210	1.10±0.10	±20%	C3216X5R2J332M115AA		
	1608	0.80±0.10	±10%			C1608X5R2A472K080AA
			±20% ±10%		C2012X5R2E472K085AA	C1608X5R2A472M080A
4.7nF	2012	0.85±0.15	±10%		C2012X5R2E472K065AA C2012X5R2E472M085AA	
			±10%	C3216X5R2J472K115AA	OLO IL/KOI ILL +/ LIVIOOO/ V C	
	3216	1.15±0.15	±20%	C3216X5R2J472M115AA		
	1608	0.80±0.10	±10%			C1608X5R2A682K080AA
	1000	0.60±0.10	±20%			C1608X5R2A682M080A
6.8nF	2012	1.25±0.20	±10%		C2012X5R2E682K125AA	
			±20%	000401/5D010001/44544	C2012X5R2E682M125AA	
	3216	1.15±0.15	±10%	C3216X5R2J682K115AA		
			±20% ±10%	C3216X5R2J682M115AA		C1608X5R2A103K080AA
	1608	0.80±0.10	±20%			C1608X5R2A103M080A
			±10%		C2012X5R2E103K125AA	
10nF	2012	1.25±0.20	±20%		C2012X5R2E103M125AA	
	3216	1.15±0.15	±10%	C3216X5R2J103K115AA		
	0210	1.10±0.10	±20%	C3216X5R2J103M115AA		
	1608	$0.80 \pm 0.10$	±10%			C1608X5R2A153K080AA
			±20% ±10%		C2012X5R2E153K125AA	C1608X5R2A153M080A
15nF	2012	1.25±0.20	±10%		C2012X5R2E153K125AA	
			±10%	C3216X5R2J153K130AA	OLO 12/101 (LE 1001VI120/1/	
	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%	C0046VED0 10001/400	C2012X5R2E223M125AA	
	3216	1.30±0.20	±10% ±20%	C3216X5R2J223K130AA C3216X5R2J223M130AA		
			±20% ±10%	OUZ TUNUNZUZZUNITUUAA		C2012X5R2A333K125AA
	2012	1.25±0.20	±20%			C2012X5R2A333M125A
33nF	0040	4.00.000	±10%	C3216X5R2J333K160AA	C3216X5R2E333K160AA	
	3216	1.60±0.20	±20%	C3216X5R2J333M160AA	C3216X5R2E333M160AA	
	2012	1.25±0.20	±10%	-	-	C2012X5R2A473K125A
		1.2010.20	±20%			C2012X5R2A473M125A
47nF	3216	1.60±0.20	±10%		C3216X5R2E473K160AA	
			±20%	C000EVED0 14701/000 A A	C3216X5R2E473M160AA	
	3225	2.00±0.20	±10%	C3225X5R2J473K200AA		
			±20% ±10%	C3225X5R2J473M200AA		C2012X5R2A683K085A
	2012	0.85±0.15	±20%			C2012X5R2A683M085A
00. =		4.00.0	±10%		C3216X5R2E683K160AA	
68nF	3216	1.60±0.20	±20%		C3216X5R2E683M160AA	
	2005	2.00.000	±10%	C3225X5R2J683K200AA		
	3225	2.00±0.20	±20%	C3225X5R2J683M200AA		

<sup>■</sup> Gray items: These products are not recommended for new designs.



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

	Dimension	Thickness	Capacitance	Catalog number		
apacitance	Dimensions	(mm)	tolerance	Rated voltage Edc: 630V	Rated voltage Edc: 250V	Rated voltage Edc: 100V
	2012	1.25±0.20	±10%			C2012X5R2A104K125AA
	2012	1.2310.20	±20%			C2012X5R2A104M125AA
100nF	3216	1.60±0.20	±10%		C3216X5R2E104K160AA	
100111	3210	1.00±0.20	±20%		C3216X5R2E104M160AA	
	4532	2.30±0.20	±10%	C4532X5R2J104K230KA		
	430Z	2.00±0.20	±20%	C4532X5R2J104M230KA		
	3216	1.60±0.20	±10%			C3216X5R2A154K160AA
	3210	1.00±0.20	±20%			C3216X5R2A154M160AA
150nF	3225	2.00±0.20	±10%		C3225X5R2E154K200AA	
130111	3223	2.00±0.20	±20%		C3225X5R2E154M200AA	
	5750	1.60±0.20	±10%	C5750X5R2J154K160KA		
	5750	1.60±0.20	±20%	C5750X5R2J154M160KA		
	2010	1.15.0.15	±10%			C3216X5R2A224K115AA
	3216	1.15±0.15	±20%			C3216X5R2A224M115AA
000-5	2005	0.00.000	±10%		C3225X5R2E224K200AA	
220nF	3225	2.00±0.20	±20%		C3225X5R2E224M200AA	
			±10%	C5750X5R2J224K230KA		
	5750	2.30±0.20	±20%	C5750X5R2J224M230KA		
			±10%			C3216X5R2A334K130AA
	3216	1.30±0.20	±20%			C3216X5R2A334M130AA
330nF			±10%		C4532X5R2E334K230KA	
	4532	2.30±0.20	±20%		C4532X5R2E334M230KA	
			±10%			C3216X5R2A474K160AA
	3216	1.60±0.20	±20%			C3216X5R2A474M160AA
470nF			±10%		C4532X5R2E474K230KA	
	4532	2.30±0.20	±20%		C4532X5R2E474M230KA	
			±10%			C3216X5R2A684K160AA
	3216	1.60±0.20	±20%			C3216X5R2A684M160AA
680nF			±10%		C5750X5R2E684K230KA	
	5750	2.30±0.20	±20%		C5750X5R2E684M230KA	
			±10%			C3216X5R2A105K160AA
	3216	1.60±0.20	±20%			C3216X5R2A105M160AA
1μF			±10%		C5750X5R2E105K230KA	
	5750	2.30±0.20	±20%		C5750X5R2E105M230KA	
			±10%			C3225X5R2A155K200AE
1.5µF	3225	2.00±0.20	±20%			C3225X5R2A155M200AE
			±10%			C3225X5R2A225K230AE
2.2µF	3225	2.30±0.20	±20%			C3225X5R2A225M230AE
			±10%			C5750X5R2A335K230KA
3.3µF	5750	2.30±0.20	±20%			C5750X5R2A335M230KA
			±10%			C5750X5R2A475K230KA
	5750	2.30±0.20	±10/0			00100N0112NT1011200NA

<sup>■</sup> Gray items: These products are not recommended for new designs.

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

Capacitance	Dimensions	Thickness (mm)	Capacitance tolerance	Catalog number Rated voltage Edc: 450V
1	5750	2.50±0.30	±10%	C5750X6S2W105K250KA
1μF 5750		2.50±0.50	±20%	C5750X6S2W105M250KA
2 205	5750	2.50±0.30	±10%	C5750X6S2W225K250KA
2.2µг	2.2μF 5750		+20%	C5750Y6S2W225M250KA

<sup>■</sup> Gray items: These products are not recommended for new designs.



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

1nF 1.5nF	2012 3216	0.80±0.10 0.85±0.15	±10% ±20% ±10% ±20%		C2012X7R2E102K085AA	C1608X7R2A102K080A C1608X7R2A102M080A C2012X7R2A102K085A
		0.85±0.15	±10%		C2012X7R2E102K085AA	
		0.85±0.15			02012/1112210211000/11	02012/11112/110211000/1
1.5nF	3216				C2012X7R2E102M085AA	C2012X7R2A102M085A
1.5nF	3216		±10%	C3216X7R2J102K115AA	02012/11/122102/11/00/11	0201277112711021110007
1.5nF		1.15±0.15	±20%	C3216X7R2J102M115AA		
1.5nF	1000	0.00.0.10	±10%			C1608X7R2A152K080A
1.5nF	1608	0.80±0.10	±20%			C1608X7R2A152M080A
1.511	2012	0.05.0.15	±10%		C2012X7R2E152K085AA	C2012X7R2A152K085A
	2012	0.85±0.15	±20%		C2012X7R2E152M085AA	C2012X7R2A152M085A
	3216	1.15±0.15	±10%	C3216X7R2J152K115AA		
	3210	1.15±0.15	±20%	C3216X7R2J152M115AA		
	1608	0.80±0.10	±10%			C1608X7R2A222K080A
		0.0020.10	±20%			C1608X7R2A222M080A
2.2nF	2012	0.85±0.15	±10%		C2012X7R2E222K085AA	C2012X7R2A222K085A
			±20%		C2012X7R2E222M085AA	C2012X7R2A222M085A
	3216	1.15±0.15	±10%	C3216X7R2J222K115AA		
			±20%	C3216X7R2J222M115AA		04000/7004000/0004
	1608	0.80±0.10	±10%			C1608X7R2A332K080A
			±20%		C0010V7D0F000V00F	C1608X7R2A332M080A
3.3nF	2012	0.85±0.15	±10% ±20%		C2012X7R2E332K085AA	C2012X7R2A332K085A C2012X7R2A332M085A
			±20% ±10%	C3016Y7R0 I230K11EAA	C2012X7R2E332M085AA	02012A172A332IVIU85A
	3216	1.15±0.15	±10% ±20%	C3216X7R2J332K115AA C3216X7R2J332M115AA		
			±20%	COZ TOX/ NZOSOZIVITISAA		C1608X7R2A472K080A
	1608	0.80±0.10	±20%			C1608X7R2A472M080A
	-		±10%		C2012X7R2E472K085AA	C2012X7R2A472K085A
4.7nF	2012	0.85±0.15	±20%		C2012X7R2E472M085AA	C2012X7R2A472M085A
			±10%	C3216X7R2J472K115AA		
	3216	1.15±0.15	±20%	C3216X7R2J472M115AA		
			±10%			C1608X7R2A682K080A
	1608	0.80±0.10	±20%			C1608X7R2A682M080A
	-	0.05.0.15	±10%			C2012X7R2A682K085A
6.8nF	2012 -	0.85±0.15	±20%			C2012X7R2A682M085A
0.011	2012 -	1.25±0.20	±10%		C2012X7R2E682K125AA	
		1.25±0.20	±20%		C2012X7R2E682M125AA	
	3216	1.15±0.15	±10%	C3216X7R2J682K115AA		
	0210	1.10±0.10	±20%	C3216X7R2J682M115AA		
	1608	0.80±0.10	±10%			C1608X7R2A103K080A
			±20%			C1608X7R2A103M080A
		0.85±0.15	±10%			C2012X7R2A103K085A
10nF	2012 -		±20%		000407/2005/40544	C2012X7R2A103M085A
		1.25±0.20	±10%		C2012X7R2E103K125AA	
	-		±20% ±10%	C3216X7R2J103K115AA	C2012X7R2E103M125AA	
	3216	1.15±0.15	±10%			
			±20% ±10%	C3216X7R2J103M115AA		C1608X7R2A153K080A
	1608	0.80±0.10	±10%			C1608X7R2A153M080A
			±10%		C2012X7R2E153K125AA	C2012X7R2A153K125A
	2012	1.25±0.20	±20%		C2012X7R2E153M125AA	C2012X7R2A153M125A
15nF			±10%		C3216X7R2E153K115AA	
		1.15±0.15	±20%		C3216X7R2E153M115AA	
	3216 -	400	±10%	C3216X7R2J153K130AA		
		1.30±0.20	±20%	C3216X7R2J153M130AA		
	1600	0.00:0.40	±10%			C1608X7R2A223K080A
	1608	0.80±0.10	±20%			C1608X7R2A223M080A
	2012	1 25-0 20	±10%		C2012X7R2E223K125AA	C2012X7R2A223K125A
22nF	2012	1.25±0.20	±20%		C2012X7R2E223M125AA	C2012X7R2A223M125A
EEHT'		1 15+0 15	±10%		C3216X7R2E223K115AA	
	3216 -	1.15±0.15	±20%		C3216X7R2E223M115AA	
	JE 10 -	1.30±0.20	±10%	C3216X7R2J223K130AA		
		1.50±0.20	±20%	C3216X7R2J223M130AA		
		· · · · · · · · · · · · · · · · · · ·	±10%		·	C2012X7R2A333K125A
	2012	1 25±0 20	=1070			
	2012	1.25±0.20	±20%			C2012X7R2A333M125A
33nF	2012					
33nF		1.25±0.20 1.15±0.15	±20% ±10% ±20%			C2012X7R2A333M125A C3216X7R2A333K115A C3216X7R2A333M115A
33nF	2012 3216 -		±20% ±10%	C3216X7R2J333K160AA	C3216X7R2E333K160AA	C3216X7R2A333K115A

<sup>■</sup> Gray items: These products are not recommended for new designs.



# 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
	2012	1.25±0.20	±10%			C2012X7R2A473K125AA
		1.2020.20	±20%			C2012X7R2A473M125A
		1.15±0.15	±10%			C3216X7R2A473K115AA
47nF	3216 -	1.10±0.10	±20%			C3216X7R2A473M115A
7/111	0210	1.60±0.20	±10%		C3216X7R2E473K160AA	
		1.00±0.20	±20%		C3216X7R2E473M160AA	
	3225	2.00±0.20	±10%	C3225X7R2J473K200AA		
	3223	2.00±0.20	±20%	C3225X7R2J473M200AA		
	0010	0.05.0.45	±10%			C2012X7R2A683K085AA
	2012	0.85±0.15	±20%			C2012X7R2A683M085A
	0010	4.00.0.00	±10%		C3216X7R2E683K160AA	C3216X7R2A683K160A
۰۰.۶	3216	1.60±0.20	±20%		C3216X7R2E683M160AA	C3216X7R2A683M160A
68nF			±10%	C3225X7R2J683K200AA		
	3225	2.00±0.20	±20%	C3225X7R2J683M200AA		
			±10%	C4532X7R2J683K160KA		
	4532	1.60±0.20	±20%	C4532X7R2J683M160KA		
			±10%			C2012X7R2A104K125A/
	2012	1.25±0.20	±20%			C2012X7R2A104M125A
			±10%		C3216X7R2E104K160AA	C3216X7R2A104K160A
	3216	1.60±0.20	±20%		C3216X7R2E104M160AA	C3216X7R2A104M160A
100nF			±10%		C3225X7R2E104K200AA	C3210X/112X104W1700X
	3225	2.00±0.20	±20%			
				C4500V7D0 H04K000K4	C3225X7R2E104M200AA	
	4532	2.30±0.20	±10%	C4532X7R2J104K230KA		
			±20%	C4532X7R2J104M230KA		
	3216	1.60±0.20	±10%			C3216X7R2A154K160A
			±20%			C3216X7R2A154M160A
	3225	2.00±0.20	±10%		C3225X7R2E154K200AA	
150nF			±20%		C3225X7R2E154M200AA	
	4532	1.60±0.20	±10%		C4532X7R2E154K160KA	
		1.0020.20	±20%		C4532X7R2E154M160KA	
	5750	1.60±0.20	±10%	C5750X7R2J154K160KA		
	3730	1.00±0.20	±20%	C5750X7R2J154M160KA		
	2016	1 15.0 15	±10%			C3216X7R2A224K115A
	3216	1.15±0.15	±20%			C3216X7R2A224M115A
	0005	0.00.0.00	±10%		C3225X7R2E224K200AA	
000.5	3225	2.00±0.20	±20%		C3225X7R2E224M200AA	
220nF	4500	0.00.00	±10%		C4532X7R2E224K230KA	
	4532	2.30±0.20	±20%		C4532X7R2E224M230KA	
			±10%	C5750X7R2J224K230KA		
	5750	2.30±0.20	±20%	C5750X7R2J224M230KA		
			±10%			C3216X7R2A334K130A
	3216	1.30±0.20	±20%			C3216X7R2A334M130A
			±10%			C3225X7R2A334K200A
	3225	2.00±0.20	±20%			C3225X7R2A334M200A
330nF			±10%		C4532X7R2E334K230KA	OOLLOXI I IL NOO IIII LOON
	4532	2.30±0.20	±10% ±20%		C4532X7R2E334M230KA	
			±20% ±10%		C5750X7R2E334K160KA	
	5750	1.60±0.20				
			±20%		C5750X7R2E334M160KA	C0016V7D0 474V400 4
	3216	1.60±0.20	±10%			C3216X7R2A474K160A
			±20%			C3216X7R2A474M160A
	3225	2.00±0.20	±10%			C3225X7R2A474K200A
470nF			±20%			C3225X7R2A474M200A
	4532	2.30±0.20	±10%		C4532X7R2E474K230KA	
	430Z	2.50±0.20	±20%		C4532X7R2E474M230KA	
	5750	2 20 . 0 20	±10%		C5750X7R2E474K230KA	
	3730	2.30±0.20	±20%		C5750X7R2E474M230KA	
	2010	1.00/0.00	±10%			C3216X7R2A684K160A
	3216	1.60±0.20	±20%			C3216X7R2A684M160A
			±10%			C3225X7R2A684K160A
	3225	1.60±0.20	±20%			C3225X7R2A684M160A
			±10%			C4532X7R2A684K230K
680nF	4532	2.30±0.20	±20%			C4532X7R2A684M230K
			±10%			C5750X7R2A684K160K
		1.60±0.20	±10% ±20%			
	5750 -				CETEOVTDOFCO 4K000KA	C5750X7R2A684M160K
		2.30±0.20	±10%		C5750X7R2E684K230KA	
			±20%		C5750X7R2E684M230KA	

<sup>■</sup> Gray items: These products are not recommended for new designs.



# Capacitance range table

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

Capacitance	Dimensions	Thickness	Capacitance	Catalog number	
Capacitance	Dimensions	(mm)	tolerance	Rated voltage Edc: 250V	Rated voltage Edc: 100V
	3216	1.00.0.00	±10%		C3216X7R2A105K160AA
	3210	1.60±0.20	±20%		C3216X7R2A105M160AA
	3225	2.00±0.20	±10%		C3225X7R2A105K200AA
1µF	3223	2.00±0.20	±20%		C3225X7R2A105M200AA
iμr	4532	2.30+0.20	±10%		C4532X7R2A105K230KA
	4532	2.30±0.20	±20%		C4532X7R2A105M230KA
	5750	0.00.0.00	±10%	C5750X7R2E105K230KA	C5750X7R2A105K230KA
	5750	2.30±0.20	±20%	C5750X7R2E105M230KA	C5750X7R2A105M230KA
	3225	0.00.0.00	±10%		C3225X7R2A155K200AB
	3223	2.00±0.20	±20%		C3225X7R2A155M200AB
1 55	4532	2.30+0.20	±10%		C4532X7R2A155K230KA
1.5µF	4532	2.30±0.20	±20%		C4532X7R2A155M230KA
	5750	2.30+0.20	±10%		C5750X7R2A155K230KA
	5750	2.30±0.20	±20%		C5750X7R2A155M230KA
	3225	2.30±0.20	±10%		C3225X7R2A225K230AB
	3223	2.30±0.20	±20%		C3225X7R2A225M230AB
0.005	4532	2.30±0.20	±10%		C4532X7R2A225K230KA
2.2µF	4532	2.30±0.20	±20%		C4532X7R2A225M230KA
	5750	2.30+0.20	±10%		C5750X7R2A225K230KA
	5750	2.30±0.20	±20%		C5750X7R2A225M230KA
2 2115	5750	2.30±0.20	±10%		C5750X7R2A335K230KA
3.3µF	3/30	2.30±0.20	±20%		C5750X7R2A335M230KA
4.7µF	5750	2.30±0.20	±10%		C5750X7R2A475K230KA
4.7µr	3750	2.30±0.20	±20%		C5750X7R2A475M230KA

<sup>■</sup> Gray items: These products are not recommended for new designs.



# Capacitance range table

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

$ \begin{array}{cccccccccccccccccccccccccccccccccccc$
10F         1005         0.50±0.05         ±20%         C1005X7S2A102M050B           1.5nF         1005         0.50±0.05         ±10%         C1005X7S2A152K050B           ±20%         C1005X7S2A152M050B         ±20%         C1005X7S2A222K050B           ±20%         C1005X7S2A222M050B         ±20%         C1005X7S2A332K050B           3.3nF         1005         0.50±0.05         ±10%         C1005X7S2A332M050B           4.7nF         1005         0.50±0.05         ±10%         C1005X7S2A472K050B
1.5nF 1005 0.50±0.05 ±20% C1005X7S2A152M050B  2.2nF 1005 0.50±0.05 ±10% C1005X7S2A222K050B  ±20% C1005X7S2A222M050B  ±20% C1005X7S2A222M050B  ±20% C1005X7S2A332K050B  ±20% C1005X7S2A332M050B  ±20% C1005X7S2A332M050B
2.2nF 1005 0.50±0.05 ±20% C1005X7S2A152M050B ±20% C1005X7S2A222K050B ±20% C1005X7S2A222K050B ±20% C1005X7S2A322K050B ±10% C1005X7S2A332K050B ±20% C1005X7S2A332M050B ±10% C1005X7S2A332M050B
2.2nF 1005 0.50±0.05 ±20% C1005X7S2A222M050B  3.3nF 1005 0.50±0.05 ±10% C1005X7S2A332K050B  ±20% C1005X7S2A332M050B  ±20% C1005X7S2A332M050B  ±10% C1005X7S2A472K050B
2.2nF 1005 0.50±0.05 ±20% C1005X7S2A222M050B  3.3nF 1005 0.50±0.05 ±10% C1005X7S2A332K050B  ±20% C1005X7S2A332M050B  ±20% C1005X7S2A332M050B  ±10% C1005X7S2A472K050B
3.3nF 1005 0.50±0.05 ±10% C1005X7S2A332K050Bl ±20% C1005X7S2A332M050B 4.7nF 1005 0.50±0.05 ±10% C1005X7S2A472K050Bl
3.3nF 1005 0.50±0.05 ±20% C1005X7S2A332M050B 4.7nF 1005 0.50±0.05 ±10% C1005X7S2A472K050B
4 7nF 1005 0.50+0.05 ±10% C1005X7S2A472K050B
4.7nF 1005 0.50+0.05
+10% C1005X7S2A682K050B
6.8nF 1005 0.50±0.05 ±20% C1005X7S2A682M050B
+10% C1005X7S2A103K050B
10nF 1005 0.50±0.05 ±20% C1005X7S2A103M050B
+10% C1608X7S2A333K080A
33nF 1608 0.80±0.10 ±20% C1608X7S2A333M080A
±10% C1608X7S2A473K080A
47nF 1608 0.80±0.10 ±20% C1608X7S2A473M080A
±10% C1608X7S2A683K080A
68nF 1608 0.80±0.10 ±20% C1608X7S2A6683M080A
±10% C1608X7S2A104K080A
100nF 1608 0.80 $\pm$ 0.10 $\pm$ 10% C1608X7S2A104R080A
±20% C1000X732A104N000A
150nF 2012 0.85 $\pm$ 0.15 $\pm$ 10% C2012X7S2A154K085A
±20% C2012X7S2A154W005A
220nF 2012 $0.85\pm0.15$ $\pm 10\%$ $C2012X752A224K085A$ $\pm 20\%$ $C2012X752A224M085A$
±20% C2012X752A224W065A
330nF 2012 1 25+0 20
±20% C2012X7S2A334M125A
470nF 2012 1.25±0.20 ±10% C2012X7S2A474K125Al ±20% C2012X7S2A474M125A
±20% C2012X752A474W125A
680nF 2012 1.25±0.20 $\frac{\pm 10\%}{\pm 20\%}$ C2012X7S2A684K125A
±20% C2012X7S2A664W125A
1UF 2012 1.25±0.20 ———————————————————————————————————
±20% C2012X7S2A105M125A
1.5 $\mu$ F 3216 1.60 $\pm$ 0.20 $\pm$ 10% C3216X7S2A155K160Al $\pm$ 20% C3216X7S2A155M160A
2.2μF 3216 1.60±0.20 ±10% C3216X7S2A225K160A
±20% C3216X7S2A225M160A ±10% C3216X7S2A335K160A
3216 1 60±0 30 -0 10
±20% C3216X7S2A335M160A
3.3μF 3225 2.00±0.20 ±10% C3225X7S2A335K200A
±20% C3225X7S2A335M200A
4532 2.00±0.20 ±10% C4532X7S2A335K200K
±20% C4532X7S2A335M200K
3225 2.00±0.20 ±10% C3225X7\$2A475K200A
±20% C3225X7S2A475M200A
4532 2.30±0.20 ±10% C4532X7\$2A475K230K
±20% C4532X7S2A475M230K
6.8μF 5750 2.00±0.20 ±10% C5750X7\$2A685K200K
±20% C5750X7S2A685M200K
10μF 5750 2.30±0.20 ±10% C5750X7S2A106K230K
±20% C5750X7S2A106M230K
15μF 5750 2.50±0.30 ±20% C5750X7S2A156M250K
22μF 5750 2.80±0.30 ±20% C5750X7\$2A226M280K

<sup>■</sup> Gray items: These products are not recommended for new designs.



# **Capacitance range table**

Temperature characteristic: X7T (-55 to +125°C, +22, -33%)

apacitance	Dimensions	Thickness (mm)	Capacitance tolerance	Catalog number Rated voltage Edc: 630V	Rated voltage Edc: 450V	Rated voltage Edc: 350V	Rated voltage Edc: 250
		, ,	±10%	riated reliage Edel eder	C2012X7T2W103K085AA	C2012X7T2V103K085AA	rated vehage Eder Ede
10nF	3216	0.85±0.15 0.85±0.15	±20%		C2012X7T2W103M085AA	C2012X7T2V103M085AA	
			±10%	C3216X7T2J103K085AC			
			±20%	C3216X7T2J103M085AC			
			±10%		C2012X7T2W153K085AA	C2012X7T2V153K085AA	
15nF	2012	0.85±0.15	±20%		C2012X7T2W153M085AA	C2012X7T2V153M085AA	
	3216	0.85±0.15	±10%	C3216X7T2J153K085AC			
			±20%	C3216X7T2J153M085AC			
	2212		±10%		C2012X7T2W223K125AA	C2012X7T2V223K125AA	
22nF	2012	1.25±0.20	±20%		C2012X7T2W223M125AA	C2012X7T2V223M125AA	
	3216	1.15±0.15	±10%	C3216X7T2J223K115AC			
			±20%	C3216X7T2J223M115AC			
33nF	0010	4.05.0.00	±10%		C2012X7T2W333K125AA	C2012X7T2V333K125AA	C2012X7T2E333K125A
	2012	1.25±0.20	±20%		C2012X7T2W333M125AA	C2012X7T2V333M125AA	C2012X7T2E333M125A
	0010	4.45.0.45	±10%	C3216X7T2J333K115AC			
	3216	1.15±0.15	±20%	C3216X7T2J333M115AC			
47nF	2012	1.25±0.20	±10%		C2012X7T2W473K125AA	C2012X7T2V473K125AA	C2012X7T2E473K125A
	2012	1.25±0.20	±20%		C2012X7T2W473M125AA	C2012X7T2V473M125AA	C2012X7T2E473M125A
	3216	1.60±0.20	±10%	C3216X7T2J473K160AC			
			±20%	C3216X7T2J473M160AC			
68nF	2012	1.25±0.20	±10%				C2012X7T2E683K125A
	2012	1.25±0.20	±20%				C2012X7T2E683M125A
	3216	1.30±0.20	±10%		C3216X7T2W683K130AA	C3216X7T2V683K130AA	
			±20%		C3216X7T2W683M130AA	C3216X7T2V683M130AA	
100nF	2012	1.25±0.20	±10%				C2012X7T2E104K125A
			±20%				C2012X7T2E104M125A
	3216 	1.60±0.20 1.60±0.20	±10%		C3216X7T2W104K160AA	C3216X7T2V104K160AA	
100111			±20%		C3216X7T2W104M160AA	C3216X7T2V104M160AA	
			±10%	C3225X7T2J104K160AC			
	3223	1.0010.20	±20%	C3225X7T2J104M160AC			
150nF	3216	1.30±0.20	±10%				C3216X7T2E154K130A
	3210	1.00±0.20	±20%				C3216X7T2E154M130A
	3225	2.00±0.20	±10%	C3225X7T2J154K200AC			
			±20%	C3225X7T2J154M200AC			
	4532	1.60±0.20	±10%	C4532X7T2J154K160KC			
	.002		±20%	C4532X7T2J154M160KC			
220nF	3216	1.60±0.20	±10%				C3216X7T2E224K160A
			±20%				C3216X7T2E224M160A
	3225	2.00±0.20	±10%		C3225X7T2W224K200AA		
			±20%		C3225X7T2W224M200AA		
	4532	2.00±0.20	±10%	C4532X7T2J224K200KC			
			±20%	C4532X7T2J224M200KC			
300nF	4532	2.50±0.30	±10%	C4532X7T2J304K250KA			
			±20%	C4532X7T2J304M250KA			000051/775755
	3225	2.00±0.20	±10%				C3225X7T2E334K200A
			±20%		O4500V7T0V4004V400V		C3225X7T2E334M200A
330nF	4532	1.60±0.20	±10%		C4532X7T2W334K160KA		
			±20%	OF7E0V7T0 100 41/0001/C	C4532X7T2W334M160KA		
	5750	2.00±0.20	±10%	C5750X7T2J334K200KC			
			±20%	C5750X7T2J334M200KC	O4500V7T0V474400041		
	4532	2.30±0.20	±10%		C4532X7T2W474K230KA		
470nF	5750	2.50±0.30	±20%	OEZEOVZTO 1474/050//0	C4532X7T2W474M230KA		
			±10%	C5750X7T2J474K250KC			
680nF			±20%	C5750X7T2J474M250KC			C4E20V7T0E004V400V
	4532	1.60±0.20	±10%				C4532X7T2E684K160k
	5750		±20%		CETEOVTTOMODALCOOK *		C4532X7T2E684M160h
		2.00±0.20	±10%		C5750X7T2W684K200KA		
			±20%		C5750X7T2W684M200KA		C4E00V7T0E40EV252
1µF	4532	2.50±0.30	±10%				C4532X7T2E105K250k
			±20%				C4532X7T2E105M250k
	5750	2.50±0.30	±10%		C5750X7T2W105K250KA		
			±20%		C5750X7T2W105M250KA		
1.5µF	5750	2.00±0.20	±10%				
1.5µF	5750	2.00±0.20	±20%				C5750X7T2E155K200K C5750X7T2E155M200K
1.5μF 2.2μF	5750 5750	2.00±0.20 2.50±0.30					

<sup>■</sup> Gray items: These products are not recommended for new designs.