





C Series Commercial Grade General (Up to 50V)

Type: C0402 [EIA CC01005]

C0603 [EIA CC0201] C1005 [EIA CC0402] C1608 [EIA CC0603]

C2012 [EIA CC0805] C3216 [EIA CC1206]

C3225 [EIA CC1210] C4532 [EIA CC1812]

C5750 [EIA CC2220]

### REMINDERS

Please read before using this product

### **SAFETY REMINDERS**

### REMINDERS

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

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

#### (Example)

Catalog Issued date	Catalog Number	Item Description (On Delivery Label)
Prior to January 2013	C1608C0G1E103J(080AA)	C1608C0G1E103JT000N
January 2013 and Later	C1608C0G1E103J080AA	C1608C0G1E103JT000N



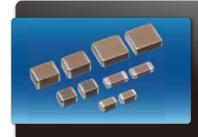








RoHS COMPLIANT



# **C** Series

## General (Up to 50V)

Type: C0402 [EIA CC01005], C0603 [EIA CC0201], C1005 [EIA CC0402], C1608 [EIACC0603], C2012 [EIA CC0805], C3216 [EIA CC1206], C3225 [EIA CC1210], C4532 [EIA CC1812], C5750 [EIA CC2220]

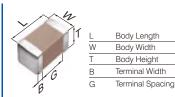
#### **Features**

- High capacitance has been achieved through precision technologies that enable the use of multiple thinner ceramic dielectric layers.
- · A monolithic structure ensures superior mechanical strength and reliability.
- · Low ESL and excellent frequency characteristics allow for a circuit design that closely conforms to theoretical values.
- · Low self-heating and high ripple resistance due to low ESR.

#### **Applications**

- · General electronic equipment
- Mobile communication equipment
- · Power supply circuit
- Office automation equipment
- TV, LED displays
- Servers, PCs, Notebooks, Tablets





#### **Catalog Number** Construction Series Name Dimensions L x W (mm) Code Length Width **Terminal** C0402 0.40 ± 0.02 0.20 ± 0.02 0.07 min. C0603 $0.60 \pm 0.03$ $0.30 \pm 0.03$ 0.10 min. C1005 1.00 ± 0.05 $0.50 \pm 0.05$ 0.10 min. C1608 1.60 ± 0.10 $0.80 \pm 0.10$ 0.20 min. C2012 $2.00 \pm 0.20$ 1.25 ± 0.20 0.20 min. C3216 $3.20 \pm 0.20$ 1.60 ± 0.20 0.20 min. $2.50 \pm 0.30$ 0.20 min. C3225 $3.20 \pm 0.40$ 4.50 ± 0.40 3.20 ± 0.40 0.20 min. C4532 C5750 5.70 ± 0.40 5.00 ± 0.40 Temperature Characteristics Temperature Coefficient or Temperature Temperature Rated Voltage (DC) Characteristics Capacitance Change Range Code Voltage (DC) -25 to +85°C СН 0±60 ppm/°C 4V 0G C0G 0±30 ppm/°C -55 to +125°C 6.3V 0J -25 to +85°C JB ±10% 10V -55 to +85°C X5R ±15% 16\ X6S ±22% -55 to +105°C 1E 25V X7R ±15% -55 to +125°C 1V 35V ±22% -55 to +125°C 50V 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. Ex. 0R2 = 0.2pF; 103 = 10,000pF; 105 = 1,000,000pF = 1,000nF = 1µFCapacitance Tolerance Nominal Thickness

Code	Tolerance
В	± 0.10pF
С	± 0.25pF
D	± 0.50pF
F	± 1%
G	± 2%
J	± 5%
K	± 10%
M	± 20%

Code	Thickness
020	0.20 mm
030	0.30 mm
050	0.50 mm
060	0.60 mm
080	0.80 mm
085	0.85 mm
115	1.15 mm
125	1.25 mm

Code	Thickness
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

### Packaging Style

Code	Style
Α	178 mm Reel, 4 mm Pitch
В	178 mm Reel, 2 mm Pitch
K	178 mm Reel, 8 mm Pitch

### **Special Reserved Code**

Code	Description
A, B, C	TDK Internal Code

Nelase be sure to request delivery specifications that provide further details on the features and specifications of the products for proper and safe use. Please note that the contents may change without any prior notice due to reasons such as upgrading.



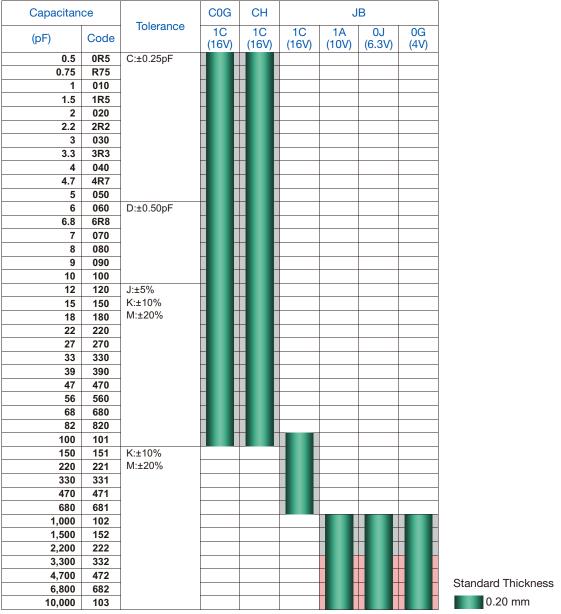
### Capacitance Range Chart

## EIA CC01005 [C0402]

### **Capacitance Range Chart**

Temperature Characteristics: C0G (0±30ppm/°C), CH (0±60ppm/°C), JB (±10%)

Rated Voltage: 16V (1C), 10V (1A), 6.3V (0J), 4.0V (0G)



Background gray: The product which is not recommended to a new design

Background red: The product which is planning to stop production \* Please confirm the schedule on product details information.

<sup>■</sup> Please refer to a capacitance range table after P-21 for the details such as product thickness, a capacitance tolerance.



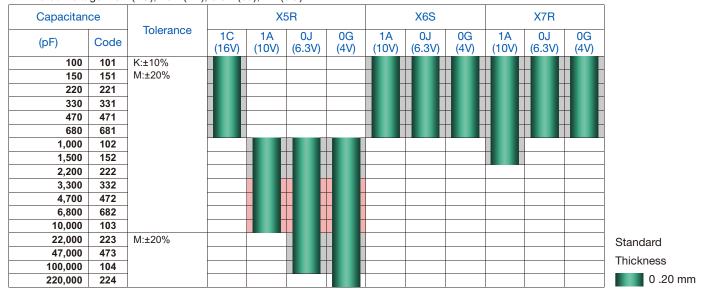
### Capacitance Range Chart

## EIA CC01005 [C0402]

### **Capacitance Range Chart**

Temperature Characteristics: X5R (±15%), X6S (±22%), X7R (±15%)

Rated Voltage: 16V (1C), 10V (1A), 6.3V (0J), 4V (0G)



Background gray: The product which is not recommended to a new design

Background red: The product which is planning to stop production \* Please confirm the schedule on product details information.

■Please refer to a capacitance range table after P-21 for the details such as product thickness, a capacitance tolerance.

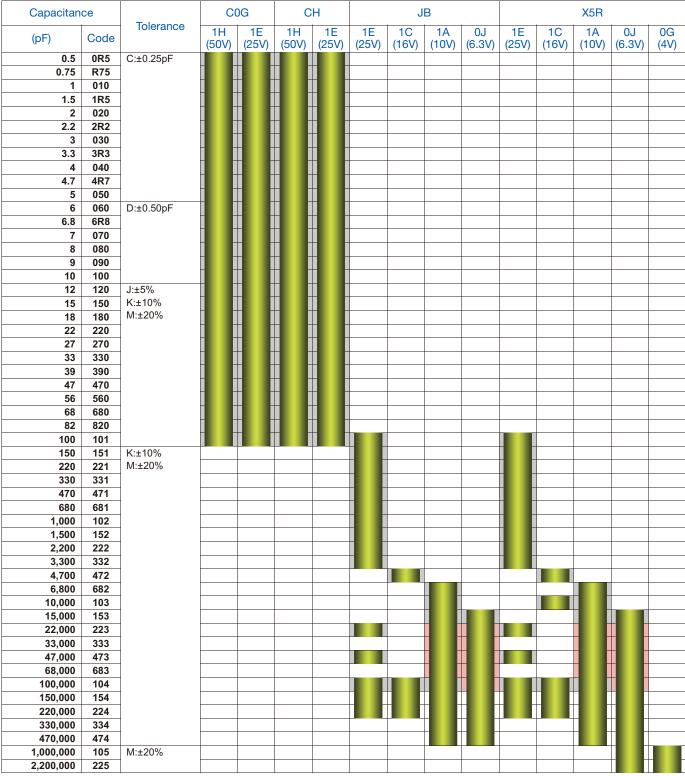
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### Capacitance Range Chart

### EIA CC0201 [C0603]

### **Capacitance Range Chart**

Temperature Characteristics: C0G (0±30ppm/°C), CH (0±60ppm/°C), JB (±10%), X5R (±15%) Rated Voltage: 50V (1H), 25V (1E), 16V (1C), 10V (1A), 6.3V (0J), 4V (0G)





0.30 mm

Background gray: The product which is not recommended to a new design

Background red: The product which is planning to stop production \* Please confirm the schedule on product details information.

■ Please refer to a capacitance range table after P-21 for the details such as product thickness, a capacitance tolerance.

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### Capacitance Range Chart

## EIA CC0201 [C0603]

### **Capacitance Range Chart**

Temperature Characteristics: X6S (±22%), X7R (±15%), X7S (±22%) Rated Voltage: 25V (1E), 16V (1C), 10V (1A), 6.3V (0J), 4V (0G)

Capacitan	се				X6S				X7R				X7S		
(pF)	Code	Tolerance	1E (25V)	1C (16V)	1A (10V)	0J (6.3V)	0G (4V)	1E (25V)	1C (16V)	1A (10V)	0J (6.3V)	1A (10V)	0J (6.3V)	0G (4V)	
100	101	K:±10%													
150	151	M:±20%													
220	221														
330	331														
470	471														
680	681														
1,000	102														
1,500	152														
2,200	222														
3,300	332														
4,700	472														
10,000	103														
22,000	223														
47,000	473														
68,000	683														
100,000	104														
150,000	154														
220,000	224														
330,000	334														
470,000	474	M:±20%													

Standard Thickness

0.30 mm

Background gray: The product which is not recommended to a new design

Background red: The product which is planning to stop production \* Please confirm the schedule on product details information.

■ Please refer to a capacitance range table after P-21 for the details such as product thickness, a capacitance tolerance.



### Capacitance Range Chart

# EIA CC0402 [C1005]

### **Capacitance Range Chart**

Temperature Characteristics: C0G (0±30ppm/°C), CH (0±60ppm/°C)

Rated Voltage: 50V (1H), 25V (1E)

Capacitan	ce	Talayana	C	)G	CH	
(pF)	Code	Tolerance	1H (50V)	1E (25V)	1H (50V)	
0.5	0R5	B:±0.10pF				
0.75	R75	C:±0.25pF				
1	010					
1.5	1R5					
2	020					
3	030					
4	040					
5	050					
6	060	C:±0.25pF				
7	070	D:±0.50pF				
8	080					
9	090					
10	100					
12	120	F:±1%				
15	150	G:±2%				
18	180	J:±5%				
22	220					
27	270		_			
33	330		_			
39	390		_			
47	470		_			
56	560		_			
68	680		_			
82	820					
100	101	F:±1%	_			
120	121	G:±2%				
150	151	J:±5% K:±10%				
180	181	K.IIU%				
220	221					
270	271					
330	331					
390	391					
470	471					
560	561					
680	681					Standard Thickn
820	821					
1,000	102					0.50 mm

Background gray: The product which is not recommended to a new design

<sup>■</sup> Please refer to a capacitance range table after P-21 for the details such as product thickness, a capacitance tolerance.

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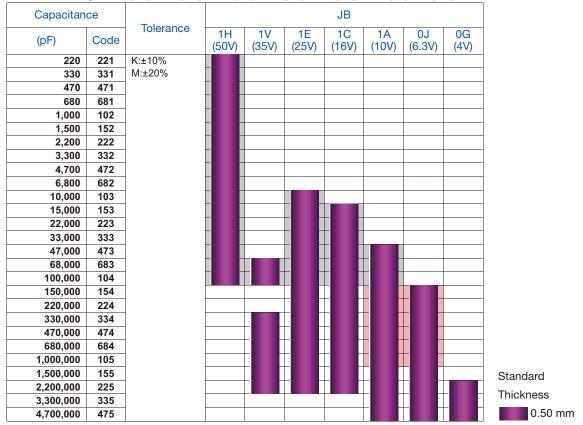
### Capacitance Range Chart

## EIA CC0402 [C1005]

### **Capacitance Range Chart**

Temperature Characteristics: JB (±10%)

Rated Voltage: 50V (1H), 35V (1V), 25V (1E), 16V (1C), 10V (1A), 6.3V (0J), 4V (0G)



Background gray: The product which is not recommended to a new design

Background red: The product which is planning to stop production \* Please confirm the schedule on product details information.

■Please refer to a capacitance range table after P-21 for the details such as product thickness, a capacitance tolerance.



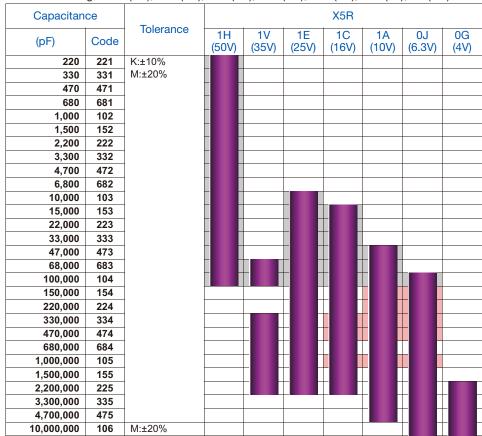
### Capacitance Range Chart

## EIA CC0402 [C1005]

### **Capacitance Range Chart**

Temperature Characteristics: X5R (±15%)

Rated Voltage: 50V (1H), 35V (1V), 25V (1E), 16V (1C), 10V (1A), 6.3V(0J), 4V (0G)



Standard Thickness 0.50 mm

#### **Capacitance Range Chart**

Temperature Characteristics: X6S (±22%)

Rated Voltage: 50V (1H), 35V (1V), 25V (1E), 16V (1C), 10V (1A), 6.3V(0J), 4V (0G)

Capacitan	ce	,, ,,	X6S									
(pF)	Code	Tolerance	1H (50V)	1V (35V)	1E (25V)	1C (16V)	1A (10V)	0J (6.3V)	0G (4V)			
10,000	103	K:±10%										
15,000	153	M:±20%										
22,000	223											
33,000	333											
47,000	473											
68,000	683											
100,000	104											
150,000	154											
220,000	224											
330,000	334											
470,000	474											
680,000	684											
1,000,000	105											
1,500,000	155											
2,200,000	225											
3,300,000	335											
4,700,000	475	M:±20%										

Standard Thickness 0.50 mm

Background gray: The product which is not recommended to a new design

Background red: The product which is planning to stop production \* Please confirm the schedule on product details information.

■ Please refer to a capacitance range table after P-21 for the details such as product thickness, a capacitance tolerance.

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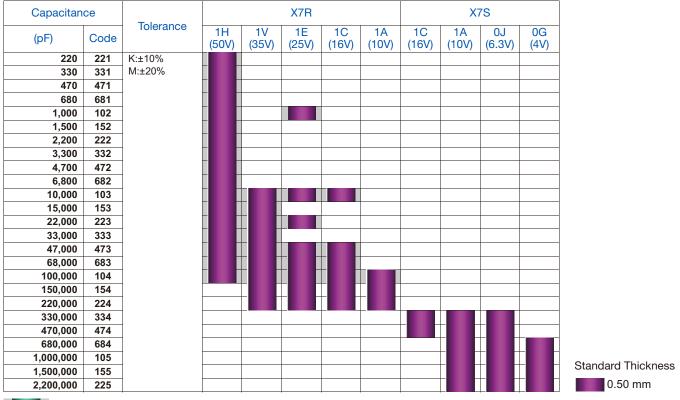
### Capacitance Range Chart

## EIA CC0402 [C1005]

### **Capacitance Range Chart**

Temperature Characteristics: X7R(±15%), X7S(±22%)

Rated Voltage: 50V(1H), 35V(1V), 25V(1E), 16V(1C), 10V (1A), 6.3V(0J), 4V (0G)



Background gray: The product which is not recommended to a new design

<sup>■</sup> Please refer to a capacitance range table after P-21 for the details such as product thickness, a capacitance tolerance.



### Capacitance Range Chart

# EIA CC0603 [C1608]

### **Capacitance Range Chart**

Temperature Characteristics: COG (0±30ppm/°C), CH(0±60ppm/°C)

Rated Voltage: 50V (1H), 35V(1V), 25V (1E)

		(1H), 35V(1V),	201 (12					
Capacitan	ce	Tala		COG		C	Н	
(pF)	Code	Tolerance	1H (50V)	1V (35V)	1E (25V)	1H (50V)	1V (35V)	
0.5	0R5	C:±0.25pF		, ,	, ,		, ,	
0.75	R75							
1	010							
1.5	1R5							
2	020							
3	030							
4	040							
5	050		-					
6	060	C:±0.25pF	_					
7	070	D:±0.50pF	_					
8	080		-					
9	090							
10	100	F 10/						
12 15	120 150	F:±1% G:±2%						
18	180	J:±5%						
22	220	K:±10%						
27	270							
33	330					-		
39	390							
47	470							
56	560							
68	680							
82	820							
100	101							
120	121							
150	151							
180	181							
220	221		_					
270	271		-					
330	331							
390	391							
470 560	471 561							
680	681							
820	821							
1,000	102							
1,200	122	J:±5%						
1,500	152	K:±10%						
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							Standard Thickne
15,000	153							
18,000	183							0.80 mm

Background gray: The product which is not recommended to a new design

■ Please refer to a capacitance range table after P-21 for the details such as product thickness, a capacitance tolerance.

hease be sure to request delivery specifications that provide further details on the features and specifications of the products for proper and safe use. Please note that the contents may change without any prior notice due to reasons such as upgrading.

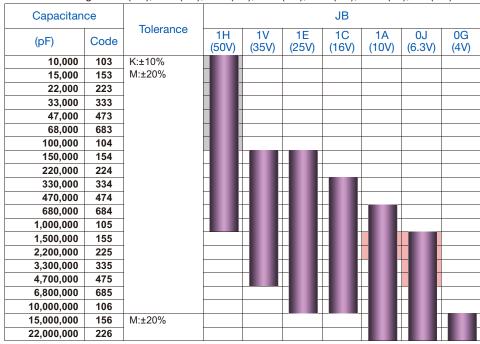
### Capacitance Range Chart

## EIA CC0603 [C1608]

### **Capacitance Range Chart**

Temperature Characteristics: JB(±10%)

Rated Voltage: 50V (1H), 35V (1V), 25V (1E), 16V (1C), 10V (1A), 6.3V (0J), 4V (0G)



Standard Thickness
0.80 mm

#### **Capacitance Range Chart**

Temperature Characteristics: X5R (±15%)

Rated Voltage: 50V (1H), 35V (1V), 25V (1E), 16V (1C), 10V (1A), 6.3V (0J), 4V (0G)

			· ·		. ,	. ,	•	, ,	
Capacitan	ce	T-1				X5R			
(pF)	Code	Tolerance	1H (50V)	1V (35V)	1E (25V)	1C (16V)	1A (10V)	0J (6.3V)	0G (4V)
10,000	103	K:±10%							
15,000	153	M:±20%							
22,000	223								
33,000	333								
47,000	473								
68,000	683								
100,000	104								
150,000	154		_	-	-				
220,000	224		-	-	_				
330,000	334		-	-	_	-			
470,000	474		-	_		_	_		
680,000	684		_	-	_	-	-		
1,000,000	105			_		_			
1,500,000	155			_		_			
2,200,000	225			-	_	-			
3,300,000	335			-	-	-			
4,700,000	475				-	-			
6,800,000	685								
10,000,000	106	14 000/							-
15,000,000	156	M:±20%							-
22,000,000	226								

Standard Thickness
0.80 mm

Background gray: The product which is not recommended to a new design

Background red: The product which is planning to stop production \* Please confirm the schedule on product details information.

■Please refer to a capacitance range table after P-21 for the details such as product thickness, a capacitance tolerance.

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### Capacitance Range Chart

## EIA CC0603 [C1608]

### **Capacitance Range Chart**

Temperature Characteristics: X6S (±22%)

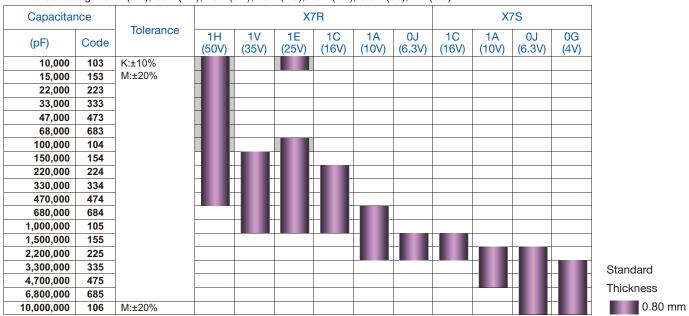
Rated Voltage: 50V (1H), 35V (1V), 25V (1E), 16V (1C), 10V (1A), 6.3V (0J), 4V (0G)



#### **Capacitance Range Chart**

Temperature Characteristics: X7R (±15%), X7S (±22%)

Rated Voltage: 50V (1H), 35V (1V), 25V (1E), 16V (1C), 10V (1A), 6.3V (0J), 4V (0G)



Background gray: The product which is not recommended to a new design

<sup>■</sup> Please refer to a capacitance range table after P-21 for the details such as product thickness, a capacitance tolerance.

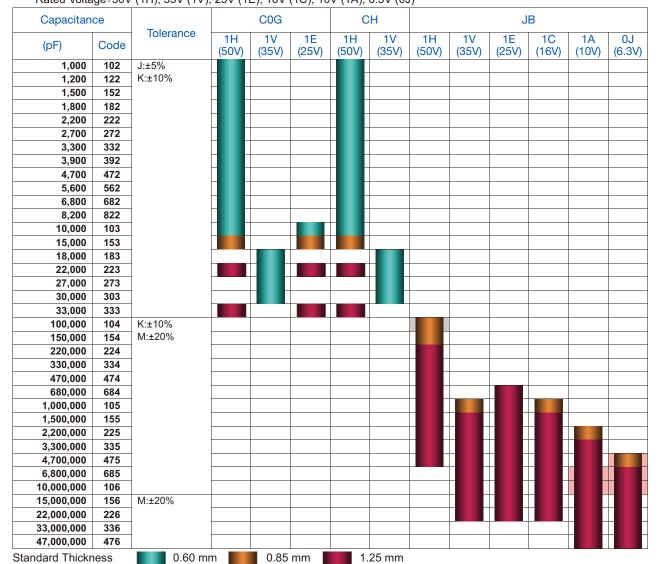


### Capacitance Range Chart

## EIA CC0805 [C2012]

### **Capacitance Range Chart**

Temperature Characteristics: C0G (0±30ppm/°C), CH (0±60ppm/°C), JB (±10%) Rated Voltage: 50V (1H), 35V (1V), 25V (1E), 16V (1C), 10V (1A), 6.3V (0J)



Background gray: The product which is not recommended to a new design

Background red: The product which is planning to stop production \* Please confirm the schedule on product details information.

■Please refer to a capacitance range table after P-21 for the details such as product thickness, a capacitance tolerance.

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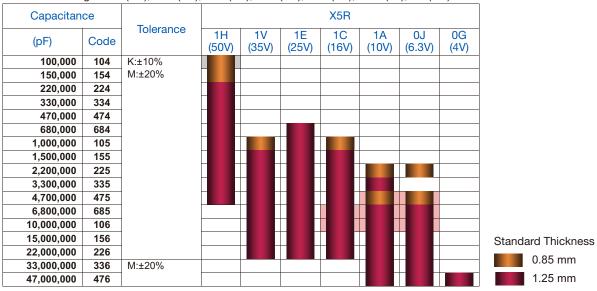
### Capacitance Range Chart

## EIA CC0805 [C2012]

### **Capacitance Range Chart**

Temperature Characteristics: X5R (±15%)

Rated Voltage: 50V (1H), 35V (1V), 25V (1E), 16V (1C), 10V (1A), 6.3V (0J), 4V (0G)



#### **Capacitance Range Chart**

Temperature Characteristics: X6S (±22%)

Rated Voltage: 50V (1H), 35V (1V), 25V (1E), 16V (1C), 10V (1A), 6.3V (0J), 4V (0G)

Capacitance										
(pF)	Code	Tolerance	1H (50V)	1V (35V)	1E (25V)	1C (16V)	1A (10V)	0J (6.3V)	0G (4V)	
470,000	474	K:±10%								
680,000	684	M:±20%								
1,000,000	105									
1,500,000	155									
2,200,000	225									
3,300,000	335									
4,700,000	475									
6,800,000	685									
10,000,000	106									
15,000,000	156	M:±20%								Standard Thickness
22,000,000	226									0.95 mm
33,000,000	336									0.85 mm
47,000,000	476									1.25 mm

Background gray: The product which is not recommended to a new design

Background red: The product which is planning to stop production \* Please confirm the schedule on product details information.

■Please refer to a capacitance range table after P-21 for the details such as product thickness, a capacitance tolerance.

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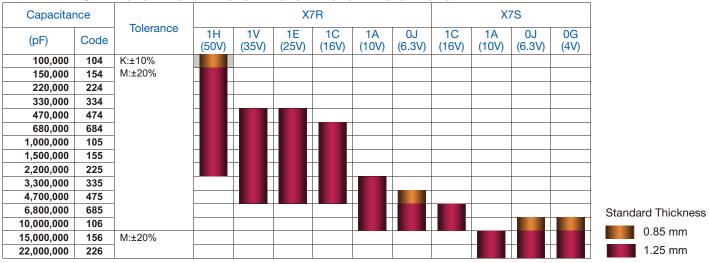
### Capacitance Range Chart

## EIA CC0805 [C2012]

### **Capacitance Range Chart**

Temperature Characteristics: X7R (±15%), X7S (±22%)

Rated Voltage: 50V (1H), 35V (1V), 25V (1E), 16V (1C), 10V (1A), 6.3V (0J), 4V (0G)



Background gray: The product which is not recommended to a new design

<sup>■</sup> Please refer to a capacitance range table after P-21 for the details such as product thickness, a capacitance tolerance.

### Capacitance Range Chart

# EIA CC1206 [C3216]

### **Capacitance Range Chart**

Temperature Characteristics: C0G (0±30ppm/°C), CH (0±60ppm/°C), JB (±10%) Rated Voltage: 50V (1H), 35V (1V), 25V (1E), 16V (1C), 10V (1A), 6.3V (0J)

Capacitan	_	(111), 00 (111)	COG	CH	( - ), -	( //		<u>′                                    </u>			1
(pF)	Code	Tolerance	1H (50V)	1H (50V)	1H (50V)	1V (35V)	1E (25V)	1C (16V)	1A (10V)	0J (6.3V)	
3,900	392	J:±5%			,	,	,	,	,	, ,	i
4,700	472	K:±10%									
5,600	562										
6,800	682										
8,200	822										
10,000	103										
15,000	153										1
22,000	223										
33,000	333										
47,000	473										
68,000	683										
100,000	104										
1,000,000	105	K:±10%			_						
1,500,000	155	M:±20%			_						
2,200,000	225				_		_				
3,300,000	335				-		-				
4,700,000	475				-		-				
6,800,000	685					-	-	-			Standard Thickness
10,000,000	106					-	-	-	-		0.60 mm
15,000,000	156	M:±20%				-	-	-			
22,000,000	226						-	-			0.85 mm
33,000,000	336										1.15 mm
47,000,000	476										1.30 mm
68,000,000	686										
100,000,000	107										1.60 mm

### **Capacitance Range Chart**

Temperature Characteristics: X5R (±15%)

Rated Voltage: 50V (1H), 35V (1V), 25V (1E), 16V (1C), 10V (1A), 6.3V (0J), 4V (0G)



Background red: The product which is planning to stop production \* Please confirm the schedule on product details information.

<sup>■</sup>Please refer to a capacitance range table after P-21 for the details such as product thickness, a capacitance tolerance.



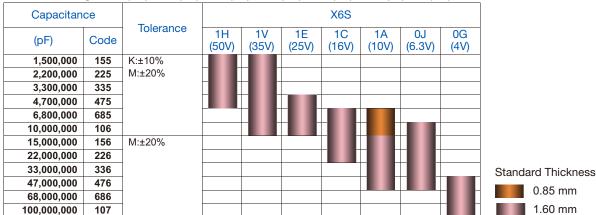
### Capacitance Range Chart

## EIA CC1206 [C3216]

### **Capacitance Range Chart**

Temperature Characteristics: X6S (±22%)

Rated Voltage: 50V (1H), 35V (1V), 25V (1E), 16V (1C), 10V (1A), 6.3V (0J), 4V (0G)



#### **Capacitance Range Chart**

Temperature Characteristics: X7R (±15%), X7S (±22%)

Rated Voltage: 50V (1H), 35V (1V), 25V (1E), 16V (1C), 10V (1A), 6.3V (0J), 4V (0G)

Capacitan	ice	<b>-</b> .			X	7R				X7S		
(pF)	Code	Tolerance	1H (50V)	1V (35V)	1E (25V)	1C (16V)	1A (10V)	0J (6.3V)	1A (10V)	0J (6.3V)	0G (4V)	
220,000	224	K:±10%										
330,000	334	M:±20%										
470,000	474											
680,000	684											
1,000,000	105											
1,500,000	155											
2,200,000	225											
3,300,000	335											
4,700,000	475											
6,800,000	685											
10,000,000	106											Standard Thickness
15,000,000	156	M:±20%							-			0.85 mm
22,000,000	226											1.15 mm
33,000,000	336											
47,000,000	476											1.60 mm

<sup>■</sup>Please refer to a capacitance range table after P-21 for the details such as product thickness, a capacitance tolerance.

Please be sure to request delivery specifications that provide further details on the features and specifications of the products for proper and safe use. Please note that the contents may change without any prior notice due to reasons such as upgrading.



### Capacitance Range Chart

## EIA CC1210 [C3225]

### **Capacitance Range Chart**

Temperature Characteristics: C0G (0±30ppm/°C), CH (0±60ppm/°C), JB (±10%), X5R (±15%)

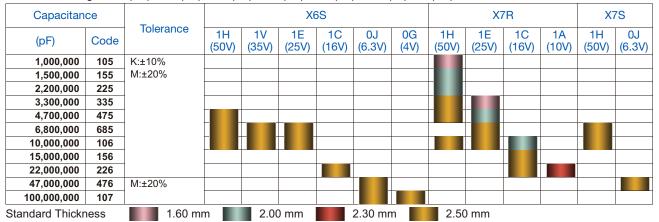
Rated Voltage: 50V (1H), 25V (1E), 16V (1C), 10V (1A), 6.3V (0J)

Capacitan	се	<b>-</b> .	COG	СН			JB			X5R				
(pF)	Code	Tolerance	1H (50V)	1H (50V)	1H (50V)	1E (25V)	1C (16V)	1A (10V)	0J (6.3V)	1H (50V)	1E (25V)	1C (16V)	1A (10V)	0J (6.3V)
22,000	223	J:±5%												
33,000	333	K:±10%												
47,000	473													
68,000	683													
100,000	104													
2,200,000	225	K:±10%												
3,300,000	335	M:±20%												
4,700,000	475													
6,800,000	685													
10,000,000	106													
15,000,000	156													
22,000,000	226													
33,000,000	336	M:±20%												
47,000,000	476													
68,000,000	686													
100,000,000	107										·			
Standard Thickr	ness	1.25 mr	m 📗	1.60	mm		2.00 mn	1	2.30	mm	2	.50 mm		

#### **Capacitance Range Chart**

Temperature Characteristics: X6S (±22%), X7R (±15%), X7S (±22%)

Rated Voltage: 50V (1H), 35V (1V), 25V (1E), 16V (1C), 10V (1A), 6.3V (0J), 4V (0G)



■Please refer to a capacitance range table after P-21 for the details such as product thickness, a capacitance tolerance.

Please be sure to request delivery specifications that provide further details on the features and specifications of the products for proper and safe use. Please note that the contents may change without any prior notice due to reasons such as upgrading.

### Capacitance Range Chart

# EIA CC1812 [C4532]

### **Capacitance Range Chart**

Temperature Characteristics: C0G (0±30ppm/ $^{\circ}$ C), CH (0±60ppm/ $^{\circ}$ C), JB (±10%)

Rated Voltage: 50V (1H), 25V (1E), 16V (1C)

	U	( // - ( //	` `	,				
Capacitan	се		COG	СН		JB		
(pF)	Code	Tolerance	1H (50V)	1H (50V)	1H (50V)	1E (25V)	1C (16V)	
47,000	473	J:±5%						
68,000	683	K:±10%						
100,000	104							
150,000	154							Standard Thickness
220,000	224							Standard Trickness
6,800,000	685	K:±10%						1.60 mm
10,000,000	106	M:±20%						2.00 mm
15,000,000	156	M:±20%						2.50 mana
22,000,000	226							2.50 mm
33,000,000	336							3.20 mm

#### **Capacitance Range Chart**

Temperature Characteristics: X5R (±15%), X6S (±22%), X7R (±15%) Rated Voltage: 50V (1H), 25V (1E), 16V (1C), 10V (1A), 6.3V (0J)

Capacitan	се	T.			X5R			X6S		X7R		
(pF)	Code	Tolerance	1H (50V)	1E (25V)	1C (16V)	1A (10V)	0J (6.3V)	0J (6.3V)	1H (50V)	1E (25V)	1C (16V)	
1,000,000	105	K:±10%										
2,200,000	225	M:±20%										
3,300,000	335								-			
4,700,000	475											
6,800,000	685											Standard Thickness
10,000,000	106									_		1.60 mm
15,000,000	156	M:±20%										
22,000,000	226											2.00 mm
33,000,000	336											2.30 mm
47,000,000	476											2.50 mm
68,000,000	686											
100,000,000	107											2.80 mm

<sup>■</sup> Please refer to a capacitance range table after P-21 for the details such as product thickness, a capacitance tolerance.

hease be sure to request delivery specifications that provide further details on the features and specifications of the products for proper and safe use. Please note that the contents may change without any prior notice due to reasons such as upgrading.

**&TDK** 

### Capacitance Range Chart

## EIA CC2220 [C5750]

### **Capacitance Range Chart**

Temperature Characteristics: JB (±10%), X5R (±15%), X7R (±15%) Rated Voltage: 50V (1H), 25V (1E), 16V (1C), 10V (1A), 6.3V (0J)



<sup>■</sup>Please refer to a capacitance range table after P-21 for the details such as product thickness, a capacitance tolerance.



### Class 1 (Temperature Compensating)

Capacitance	Size	Thickness	Capacitance _ Tolerance	Catalog Number	D / 11/11 = 1 1 2 2 2	B / 11/2 =
•	0402	(mm) 0.20±0.02		Rated Voltage Edc: 50V	Rated Voltage Edc: 25V	Rated Voltage Edc: 16V
_	0402		±0.25pF	000000004110D50000D4	000000045055000004	C0402C0G1C0R5C020B0
05 nF	0603	0.30±0.03	±0.25pF	C0603C0G1H0R5C030BA	C0603C0G1E0R5C030BA	
0.5 pF	1005	0.50±0.05	±0.10pF	C1005C0G1H0R5B050BA		
_	1000	0.00+0.40	±0.25pF	C1005C0G1H0R5C050BA		
	1608	0.80±0.10	±0.25pF	C1608C0G1H0R5C080AA		00100001007500000
_	0402	0.20±0.02	±0.25pF	00000000411075000004	000000045555000004	C0402C0G1CR75C020B
	0603	0.30±0.03	±0.25pF	C0603C0G1HR75C030BA	C0603C0G1ER75C030BA	
0.75 pF	1005	0.50±0.05	±0.10pF	C1005C0G1HR75B050BA		
_	1000	0.00.0.10	±0.25pF	C1005C0G1HR75C050BA		
	1608	0.80±0.10	±0.25pF	C1608C0G1HR75C080AA		
_	0402	0.20±0.02	±0.25pF			C0402C0G1C010C020B0
	0603	0.30±0.03	±0.25pF	C0603C0G1H010C030BA	C0603C0G1E010C030BA	
1 pF	1005	0.50±0.05	±0.10pF	C1005C0G1H010B050BA		
_			±0.25pF	C1005C0G1H010C050BA		
	1608	0.80±0.10	±0.25pF	C1608C0G1H010C080AA		
_	0402	0.20±0.02	±0.25pF			C0402C0G1C1R5C020B
_	0603	0.30±0.03	±0.25pF	C0603C0G1H1R5C030BA	C0603C0G1E1R5C030BA	
1.5 pF	1005	0.50±0.05	±0.10pF	C1005C0G1H1R5B050BA		
_			±0.25pF	C1005C0G1H1R5C050BA		
	1608	0.80±0.10	±0.25pF	C1608C0G1H1R5C080AA		
_	0402	0.20±0.02	±0.25pF			C0402C0G1C020C020B
_	0603	0.30±0.03	±0.25pF	C0603C0G1H020C030BA	C0603C0G1E020C030BA	
2 pF	1005	0.50±0.05	±0.10pF	C1005C0G1H020B050BA		
_	1000	0.0020.00	±0.25pF	C1005C0G1H020C050BA		
	1608	0.80±0.10	±0.25pF	C1608C0G1H020C080AA		
2.2 pF —	0402	0.20±0.02	±0.25pF			C0402C0G1C2R2C020B
Σ.Ζ βΙ	0603	0.30±0.03	±0.25pF	C0603C0G1H2R2C030BA	C0603C0G1E2R2C030BA	
_	0402	0.20±0.02	±0.25pF			C0402C0G1C030C020B0
	0603	0.30±0.03	±0.25pF	C0603C0G1H030C030BA	C0603C0G1E030C030BA	
3 pF	1005	0.5010.05	±0.10pF	C1005C0G1H030B050BA		
	1005	0.50±0.05	±0.25pF	C1005C0G1H030C050BA		
	1608	0.80±0.10	±0.25pF	C1608C0G1H030C080AA		
0.0	0402	0.20±0.02	±0.25pF			C0402C0G1C3R3C020B
3.3 pF —	0603	0.30±0.03	±0.25pF	C0603C0G1H3R3C030BA	C0603C0G1E3R3C030BA	
	0402	0.20±0.02	±0.25pF			C0402C0G1C040C020B0
_	0603	0.30±0.03	±0.25pF	C0603C0G1H040C030BA	C0603C0G1E040C030BA	
4 pF			±0.10pF	C1005C0G1H040B050BA		
•	1005	0.50±0.05	±0.25pF	C1005C0G1H040C050BA		
_	1608	0.80±0.10	±0.25pF	C1608C0G1H040C080AA		
	0402	0.20±0.02	±0.25pF			C0402C0G1C4R7C020B
4.7 pF —	0603	0.30±0.03	±0.25pF	C0603C0G1H4R7C030BA	C0603C0G1E4R7C030BA	
	0402	0.20±0.02	±0.25pF			C0402C0G1C050C020B0
_	0603	0.30±0.03	±0.25pF	C0603C0G1H050C030BA	C0603C0G1E050C030BA	
5 pF			±0.10pF	C1005C0G1H050B050BA		
	1005	0.50±0.05	±0.25pF	C1005C0G1H050C050BA		
_	1608	0.80±0.10	±0.25pF	C1608C0G1H050C080AA		
	0402	0.20±0.02	±0.50pF			C0402C0G1C060D020B0
_	0603	0.20±0.02 0.30±0.03	±0.50pF	C0603C0G1H060D030BA	C0603C0G1E060D030BA	55.5250515000D020D0
_			±0.25pF	C1005C0G1H060C050BA	3000000 . L000D000DA	
6 pF	1005	0.50±0.05	±0.25pF ±0.50pF	C1005C0G1H060D050BA		
_						
	1608	0.80±0.10	±0.25pF	C1608C0G1H060C080AA		
	0400	0.20.0.00	±0.50pF	C1608C0G1H060D080AA		0040200040000000000
6.8 pF —	0402	0.20±0.02	±0.50pF	00000000411000000000	C00000004E0D0D000D*	C0402C0G1C6R8D020B
	0603	0.30±0.03	±0.50pF	C0603C0G1H6R8D030BA	C0603C0G1E6R8D030BA	0040000040070707
_	0402	0.20±0.02	±0.50pF	0000000011:	000000001======	C0402C0G1C070D020B
	0603	0.30±0.03	±0.50pF	C0603C0G1H070D030BA	C0603C0G1E070D030BA	
_	·	0.50.0.05	±0.25pF	C1005C0G1H070C050BA		
7 pF	1005	0.50±0.05				
7 pF	1005	0.50±0.05	±0.50pF	C1005C0G1H070D050BA		
7 pF	1005	0.50±0.05 0.80±0.10	±0.50pF ±0.25pF ±0.50pF	C1005C0G1H070D050BA C1608C0G1H070C080AA C1608C0G1H070D080AA		

 $<sup>\</sup>blacksquare$  The gray items are non-recommended products in the new design.



# **Capacitance Range Table**

### **Class 1 (Temperature Compensating)**

apacitance	Size	Thickness	Capacitance _	Catalog Number				
apacitarice		(mm)	Tolerance	Rated Voltage Edc: 50V	Rated Voltage Edc: 25V	Rated Voltage Edc: 16V		
_	0402	0.20±0.02	±0.50pF			C0402C0G1C080D020B0		
_	0603	0.30±0.03	±0.50pF	C0603C0G1H080D030BA	C0603C0G1E080D030BA			
8 pF	1005	0.50±0.05	±0.25pF	C1005C0G1H080C050BA				
· _			±0.50pF	C1005C0G1H080D050BA				
	1608	0.80±0.10	±0.25pF	C1608C0G1H080C080AA				
	0400	0.0010.00	±0.50pF	C1608C0G1H080D080AA		00400000400000000000		
_	0402	0.20±0.02	±0.50pF	00000000411000000000	00000004500050000	C0402C0G1C090D020B0		
_	0603	0.30±0.03	±0.50pF	C0603C0G1H090D030BA	C0603C0G1E090D030BA			
9 pF	1005	0.50±0.05	±0.25pF ±0.50pF	C1005C0G1H090C050BA C1005C0G1H090D050BA				
_				C1608C0G1H090C080AA				
	1608	0.80±0.10	±0.25pF ±0.50pF	C1608C0G1H090D080AA				
	0402	0.20±0.02	±0.50pF	C1000C0G111030D000AA		C0402C0G1C100D020B0		
_	0603	0.20±0.02 0.30±0.03	±0.50pF	C0603C0G1H100D030BA	C0603C0G1E100D030BA	0040200010100002000		
_	0000	0.0010.00	±0.25pF	C1005C0G1H100C050BA	00000000 TE 100D000DA			
10 pF	1005	0.50±0.05	±0.50pF	C1005C0G1H100D050BA				
_			±0.25pF	C1608C0G1H100C080AA				
	1608	0.80±0.10	±0.50pF	C1608C0G1H100D080AA				
			±10%			C0402C0G1C120K020B0		
	0402	0.20±0.02	±5%			C0402C0G1C120J020BC		
	2000	0.00.000	±10%	C0603C0G1H120K030BA	C0603C0G1E120K030BA			
12 pF	0603	0.30±0.03	±5%	C0603C0G1H120J030BA	C0603C0G1E120J030BA			
_	1005	0.50±0.05	±5%	C1005C0G1H120J050BA				
_	1608	0.80±0.10	±5%	C1608C0G1H120J080AA				
	0402	0.20±0.02	±10%			C0402C0G1C150K020B0		
	0402	0.20±0.02	±5%			C0402C0G1C150J020B0		
	0603	0.30±0.03	±10%	C0603C0G1H150K030BA	C0603C0G1E150K030BA			
_	0003	0.3010.03	±5%	C0603C0G1H150J030BA	C0603C0G1E150J030BA			
15 nF	5 pF 1005		±1%	C1005C0G1H150F050BA				
юрі		1005	1005	1005	0.50±0.05	±2%	C1005C0G1H150G050BA	
_			±5%	C1005C0G1H150J050BA				
			±1%	C1608C0G1H150F080AA				
	1608	0.80±0.10	±2%	C1608C0G1H150G080AA				
			±5%	C1608C0G1H150J080AA				
	0402	0.20±0.02	±10%			C0402C0G1C180K020B0		
_			±5%			C0402C0G1C180J020BC		
18 pF	0603	0.30±0.03	±10%	C0603C0G1H180K030BA	C0603C0G1E180K030BA			
_			±5%	C0603C0G1H180J030BA	C0603C0G1E180J030BA			
_	1005	0.50±0.05	±5%	C1005C0G1H180J050BA				
	1608	0.80±0.10	±5%	C1608C0G1H180J080AA		0040000400001/0000		
	0402	0.20±0.02	±10%			C0402C0G1C220K020B0		
_			±5%	C0C02C0C4LI220K020DA	C0002C0C4E220I/020DA	C0402C0G1C220J020BC		
	0603	0.30±0.03	±10% ±5%	C0603C0G1H220K030BA	C0603C0G1E220K030BA			
_				C0603C0G1H220J030BA	C0603C0G1E220J030BA			
22 pF	1005	0.50±0.05	±1% ±2%	C1005C0G1H220F050BA C1005C0G1H220G050BA				
	1000	0.50±0.05	±5%					
		±1%	C1005C0G1H220J050BA C1608C0G1H220F080AA					
_	1000		± 1 /0					
_	1602	0.80±0.40	+2%					
_	1608	0.80±0.10	±2% +5%	C1608C0G1H220G080AA				
_	1608	0.80±0.10	±5%	C1608C0G1H220G080AA C1608C0G1H220J080AA		C0402C0G1C270K020B0		
_	1608 0402	0.80±0.10 0.20±0.02	±5% ±10%					
			±5% ±10% ±5%	C1608C0G1H220J080AA	C0803C0G1E270K030RA			
			±5% ±10% ±5% ±10%	C1608C0G1H220J080AA  C0603C0G1H270K030BA	C0603C0G1E270K030BA	C0402C0G1C270K020BC		
	0402	0.20±0.02	±5% ±10% ±5%	C1608C0G1H220J080AA	C0603C0G1E270K030BA C0603C0G1E270J030BA			

<sup>■</sup> The gray items are non-recommended products in the new design.



# **Capacitance Range Table**

### **Class 1 (Temperature Compensating)**

apacitance	Size	Thickness	Capacitance	Catalog Number		
араонаноо	0.20	(mm)	Tolerance	Rated Voltage Edc: 50V	Rated Voltage Edc: 25V	Rated Voltage Edc: 16V
	0402	0.20±0.02	±10%			C0402C0G1C330K020B0
_			±5%	C0C02C0C4LI220K020DA	C0C02C0C4E220V020BA	C0402C0G1C330J020B0
	0603	0.30±0.03	±10% ±5%	C0603C0G1H330K030BA C0603C0G1H330J030BA	C0603C0G1E330K030BA	
_			±1%	C1005C0G1H330F050BA	C0603C0G1E330J030BA	
33 pF	1005	0.50±0.05	±2%	C1005C0G1H330G050BA		
	1003	0.3010.03	±5%	C1005C0G1H330J050BA		
_			±1%	C1608C0G1H330F080AA		
	1608	0.80±0.10	±2%	C1608C0G1H330G080AA		
			±5%	C1608C0G1H330J080AA		
			±10%			C0402C0G1C390K020B0
	0402	0.20±0.02	±5%			C0402C0G1C390J020B0
20 - 5	0000	0.2010.02	±10%	C0603C0G1H390K030BA	C0603C0G1E390K030BA	
39 pF	0603	0.30±0.03	±5%	C0603C0G1H390J030BA	C0603C0G1E390J030BA	
_	1005	0.50±0.05	±5%	C1005C0G1H390J050BA		
_	1608	0.80±0.10	±5%	C1608C0G1H390J080AA		
	0402	0.20±0.02	±10%			C0402C0G1C470K020B0
_	0402	0.2010.02	±5%			C0402C0G1C470J020B0
	0603	0.30±0.03	±10%	C0603C0G1H470K030BA	C0603C0G1E470K030BA	
_		0.00±0.00	±5%	C0603C0G1H470J030BA	C0603C0G1E470J030BA	
47 pF			±1%	C1005C0G1H470F050BA		
р.	1005	0.50±0.05	±2%	C1005C0G1H470G050BA		
_			±5%	C1005C0G1H470J050BA		
4000		±1%	C1608C0G1H470F080AA			
	1608	0.80±0.10	±2%	C1608C0G1H470G080AA		
			±5%	C1608C0G1H470J080AA		
	0402	0.20±0.02	±10%			C0402C0G1C560K020B
_			±5%	000000004115001/00004	00000000455001/00004	C0402C0G1C560J020B0
56 pF	0603	0.30±0.03	±10%	C0603C0G1H560K030BA	C0603C0G1E560K030BA	
_	1005	0.5010.05	±5%	C0603C0G1H560J030BA	C0603C0G1E560J030BA	
_	1005 1608	0.50±0.05 0.80±0.10	±5% ±5%	C1005C0G1H560J050BA		
	1000	0.80±0.10	±10%	C1608C0G1H560J080AA		C0402C0G1C680K020B
	0402	0.20±0.02	±5%			C0402C0G1C680J020B0
_			±10%	C0603C0G1H680K030BA	C0603C0G1E680K030BA	C0402C0G1C0003020D0
	0603	0.30±0.03	±5%	C0603C0G1H680J030BA	C0603C0G1E680J030BA	
_			±1%	C1005C0G1H680F050BA	000000012000000000000000000000000000000	
68 pF	1005	0.50±0.05	±2%	C1005C0G1H680G050BA		
	.000	0.0020.00	±5%	C1005C0G1H680J050BA		
_			±1%	C1608C0G1H680F080AA		
	1608	0.80±0.10	±2%	C1608C0G1H680G080AA		
			±5%	C1608C0G1H680J080AA		
	0400	0.20.0.00	±10%			C0402C0G1C820K020B
	0402	0.20±0.02	±5%			C0402C0G1C820J020B0
82 nF	0603	U 3U+U U3	±10%	C0603C0G1H820K030BA	C0603C0G1E820K030BA	
82 pF	0603	0.30±0.03	±5%	C0603C0G1H820J030BA	C0603C0G1E820J030BA	
	1005	0.50±0.05	±5%	C1005C0G1H820J050BA		
_	1608	0.80±0.10	±5%	C1608C0G1H820J080AA		
	0402	0.20±0.02	±10%			C0402C0G1C101K020B
_	0702	0.2010.02	±5%			C0402C0G1C101J020B0
	0603	0.30±0.03	±10%	C0603C0G1H101K030BA	C0603C0G1E101K030BA	
_		0.0020.00	±5%	C0603C0G1H101J030BA	C0603C0G1E101J030BA	
			±1%	C1005C0G1H101F050BA		
100 pF	1005	0.50±0.05	±10%	C1005C0G1H101K050BA		
		2.2320.00	±2%	C1005C0G1H101G050BA		
_			±5%	C1005C0G1H101J050BA		
			±1%	C1608C0G1H101F080AA		
	1608	0.80±0.10	±10%	C1608C0G1H101K080AA		
			±2%	C1608C0G1H101G080AA		
			±5%	C1608C0G1H101J080AA		

 $<sup>\</sup>blacksquare$  The gray items are non-recommended products in the new design.



### Class 1 (Temperature Compensating)

Capacitance	Size	Thickness (mm)	Capacitance _ Tolerance	Catalog Number Rated Voltage Edc: 50V
	1005	0.50±0.05	±10%	C1005C0G1H121K050BA
120 pF —	1005	0.5010.05	±5%	C1005C0G1H121J050BA
120 pr —	1608	0.9010.10	±10%	C1608C0G1H121K080AA
	1000	0.80±0.10	±5%	C1608C0G1H121J080AA
			±1%	C1005C0G1H151F050BA
	4005	0.50+0.05	±10%	C1005C0G1H151K050BA
	1005	0.50±0.05	±2%	C1005C0G1H151G050BA
450 5			±5%	C1005C0G1H151J050BA
150 pF —			±1%	C1608C0G1H151F080AA
			±10%	C1608C0G1H151K080AA
	1608	0.80±0.10	±2%	C1608C0G1H151G080AA
			±5%	C1608C0G1H151J080AA
			±10%	C1005C0G1H181K050BA
	1005	0.50±0.05	±5%	C1005C0G1H181J050BA
180 pF —			±10%	C1608C0G1H181K080AA
	1608	0.80±0.10	±5%	C1608C0G1H181J080AA
			±1%	C1005C0G1H221F050BA
	1005	0.50±0.05	±10%	C1005C0G1H221K050BA
			±2%	C1005C0G1H221G050BA
220 pF -			±5%	C1005C0G1H221J050BA
			±1%	C1608C0G1H221F080AA
	1608	0.80±0.10	±10%	C1608C0G1H221K080AA
	.000	0.0020.10	±2%	C1608C0G1H221G080AA
			±5%	C1608C0G1H221J080AA
	1005	0.50±0.05	±10%	C1005C0G1H271K050BA
270 pF -	1005	0.5010.05	±5%	C1005C0G1H271J050BA
270 pr	1600	0.9010.10	±10%	C1608C0G1H271K080AA
	1608	0.80±0.10	±5%	C1608C0G1H271J080AA
			±1%	C1005C0G1H331F050BA
			±10%	C1005C0G1H331K050BA
	1005	0.50±0.05	±2%	C1005C0G1H331G050BA
			±5%	C1005C0G1H331J050BA
330 pF —			±1%	C1608C0G1H331F080AA
			±10%	C1608C0G1H331K080AA
	1608	0.80±0.10	±2%	C1608C0G1H331G080AA
			±5%	C1608C0G1H331J080AA
			±10%	C1005C0G1H391K050BA
	1005	$0.50 \pm 0.05$	±5%	
390 pF -				C1005C0G1H391J050BA
	1608	0.80±0.10	±10%	C1608C0G1H391K080AA
			±5%	C1608C0G1H391J080AA
			±1%	C1005C0G1H471F050BA
	1005	0.50±0.05	±10%	C1005C0G1H471K050BA
			±2%	C1005C0G1H471G050BA
470 pF —			±5%	C1005C0G1H471J050BA
- F-			±1%	C1608C0G1H471F080AA
	1608	0.80±0.10	±10%	C1608C0G1H471K080AA
	1000	0.0010.10	±2%	C1608C0G1H471G080AA
			±5%	C1608C0G1H471J080AA
-	1005	0.5010.05	±10%	C1005C0G1H561K050BA
F60 - F	1005	0.50±0.05	±5%	C1005C0G1H561J050BA
560 pF -	1600	0.00.0.40	±10%	C1608C0G1H561K080AA
	1608	0.80±0.10	±5%	C1608C0G1H561J080AA
			±1%	C1005C0G1H681F050BA
			±10%	C1005C0G1H681K050BA
	1005	0.50±0.05	±2%	C1005C0G1H681G050BA
			±5%	C1005C0G1H681J050BA
680 pF -			±1%	C1608C0G1H681F080AA
			±10%	C1608C0G1H681K080AA
	1608	0.80±0.10 -	±10%	C1608C0G1H681G080AA
			±5%	C1608C0G1H681J080AA

 $<sup>\</sup>blacksquare$  The gray items are non-recommended products in the new design.



### Class 1 (Temperature Compensating)

	0.	Thickness	Capacitance	Catalog Number		
apacitance	Size	(mm)	Tolerance	Rated Voltage Edc: 50V	Rated Voltage Edc: 25V	
	4005	0.50.0.05	±10%	C1005C0G1H821K050BA		
000 - 5	1005	0.50±0.05	±5%	C1005C0G1H821J050BA		
820 pF —	4000	0.00.0.40	±10%	C1608C0G1H821K080AA		
	1608	0.80±0.10	±5%	C1608C0G1H821J080AA		
			±1%	C1005C0G1H102F050BA		
			±10%	C1005C0G1H102K050BA		
	1005	0.50±0.05	±2%	C1005C0G1H102G050BA		
			±5%	C1005C0G1H102J050BA	C1005C0G1E102J050BA	
_			±1%	C1608C0G1H102F080AA	0.00000012.02000007.	
1 nF			±10%	C1608C0G1H102K080AA		
	1608	0.80±0.10	±2%	C1608C0G1H102G080AA		
			±5%	C1608C0G1H102J080AA		
_			±10%	C2012C0G1H102K060AA		
	2012	0.60±0.15	±5%	C2012C0G1H102J060AA		
	1608	0.80±0.10	±10%	C1608C0G1H122K080AA		
1.2 nF —			±5%	C1608C0G1H122J080AA		
	2012	0.60±0.15	±10%	C2012C0G1H122K060AA		
			±5%	C2012C0G1H122J060AA		
	1608	0.80±0.10	±10%	C1608C0G1H152K080AA		
1.5 nF —			±5%	C1608C0G1H152J080AA		
	2012	0.60±0.15	±10%	C2012C0G1H152K060AA		
	20.2	0.00200	±5%	C2012C0G1H152J060AA		
	1608	0.80±0.10	±10%	C1608C0G1H182K080AA		
10 pE _	1.8 nF	0.0010.10	±5%	C1608C0G1H182J080AA		
1.0 11	2012	0.60±0.15	±10%	C2012C0G1H182K060AA		
	2012	0.00±0.15	±5%	C2012C0G1H182J060AA		
16	4000	0.00+0.40	±10%	C1608C0G1H222K080AA		
1608	0.80±0.10	±5%	C1608C0G1H222J080AA			
2.2 nF	2 nF 2012	0.00.045	±10%	C2012C0G1H222K060AA		
		2012	2012	0.60±0.15	±5%	C2012C0G1H222J060AA
		0.85±0.15	±5%	C2012C0G1H222J085AA		
			±10%	C1608C0G1H272K080AA		
	1608	0.80±0.10	±5%	C1608C0G1H272J080AA		
2.7 nF —			±10%	C2012C0G1H272K060AA		
	2012	0.60±0.15	±5%	C2012C0G1H272J060AA		
			±10%	C1608C0G1H332K080AA		
	1608	0.80±0.10	±5%	C1608C0G1H332J080AA		
3.3 nF			±10%			
3.3 11	2042	0.60±0.15		C2012C0G1H332K060AA		
	2012	1.05+0.00	±5%	C2012C0G1H332J060AA		
		1.25±0.20	±5%	C2012C0G1H332J125AA		
	1608	0.80±0.10	±10%	C1608C0G1H392K080AA		
_			±5%	C1608C0G1H392J080AA	C1608C0G1E392J080AA	
3.9 nF	2012	0.60±0.15	±10%	C2012C0G1H392K060AA		
_			±5%	C2012C0G1H392J060AA		
	3216	0.60±0.15	±10%	C3216C0G1H392K060AA		
	0210	0.00±0.10	±5%	C3216C0G1H392J060AA		
	1608	0.80±0.10	±10%	C1608C0G1H472K080AA		
	1000	0.00±0.10	±5%	C1608C0G1H472J080AA	C1608C0G1E472J080AA	
4.7 pF	2012	0.6010.45	±10%	C2012C0G1H472K060AA		
4.7 nF	2012	0.60±0.15	±5%	C2012C0G1H472J060AA		
_	0010	0.00:0.15	±10%	C3216C0G1H472K060AA		
	3216	0.60±0.15	±5%	C3216C0G1H472J060AA		
			±10%	C1608C0G1H562K080AA		
	1608	0.80±0.10	±5%	C1608C0G1H562J080AA	C1608C0G1E562J080AA	
_			±10%	C2012C0G1H562K060AA	5.0000001E0020000/A	
5.6 nF 2	2012	0.60±0.15	±5%	C2012C0G1H562J060AA		
		0.0010.13	±0/0			
_			±10%	C3216C0G1H562K060AA		

<sup>■</sup> The gray items are non-recommended products in the new design.



# **Capacitance Range Table**

### Class 1 (Temperature Compensating)

Capacitance	Size	Thickness (mm)	Capacitance Tolerance	Catalog Number Rated Voltage Edc: 50V	Rated Voltage Edc: 35V	Rated Voltage Edc: 25V
	1608	0.80±0.10	±10%	C1608C0G1H682K080AA		C1609C0C4E692 I0604 A
_			±5% ±10%	C1608C0G1H682J080AA C2012C0G1H682K060AA		C1608C0G1E682J080AA
6.8 nF	2012	0.60±0.15	±5%	C2012C0G1H682J060AA		
_	0010	0.00:0.15	±10%	C3216C0G1H682K060AA		
	3216	0.60±0.15	±5%	C3216C0G1H682J060AA		
	1608	0.80±0.10	±10%	C1608C0G1H822K080AA		
_	1000	0.00±0.10	±5%	C1608C0G1H822J080AA		C1608C0G1E822J080AA
8.2 nF	2012	0.60±0.15	±10%	C2012C0G1H822K060AA		
-	20.2	0.0020.10	±5%	C2012C0G1H822J060AA		
	3216	0.60±0.15	±10%	C3216C0G1H822K060AA		
			±5%	C3216C0G1H822J060AA	C4600C0C4\/403\/000AC	
	1608	0.80±0.10	±10% ±5%	C1608C0G1H103K080AA C1608C0G1H103J080AA	C1608C0G1V103K080AC C1608C0G1V103J080AC	C1608C0G1E103J080AA
_			±10%	C2012C0G1H103K060AA	C1000C0G1V1033000AC	C1000C0G1E1033000AF
10 nF	2012	0.60±0.15	±5%	C2012C0G1H103J060AA		C2012C0G1E103J060AA
_			±10%	C3216C0G1H103K060AA		0201200012100000070
	3216	0.60±0.15	±5%	C3216C0G1H103J060AA		
	4000	0.00+0.40	±10%		C1608C0G1V153K080AC	
	1608	0.80±0.10	±5%		C1608C0G1V153J080AC	
15 nF	2012	0.85±0.15	±10%	C2012C0G1H153K085AA		
10 11	2012	0.05±0.15	±5%	C2012C0G1H153J085AA		C2012C0G1E153J085AA
	3216	0.60±0.15	±10%	C3216C0G1H153K060AA		
	0210	0.0010.10	±5%	C3216C0G1H153J060AA		
	1608	0.80±0.10	±10%		C1608C0G1V183K080AC	
18 nF —		0.0020.10	±5%		C1608C0G1V183J080AC	
	2012	0.60±0.15	±10%		C2012C0G1V183K060AC	
			±5%		C2012C0G1V183J060AC	
		0.60±0.15	±10%		C2012C0G1V223K060AC	
	2012		±5%	C2042C0C4LI222K42EAA	C2012C0G1V223J060AC	
		1.25±0.20	±10% ±5%	C2012C0G1H223K125AA C2012C0G1H223J125AA		C2012C0G1E223J125AA
22 nF -			±10%	C3216C0G1H223K060AA		G2012G0G1E223J123AF
	3216	0.60±0.15	±5%	C3216C0G1H223J060AA		
_			±10%	C3225C0G1H223K125AA		
	3225	1.25±0.20	±5%	C3225C0G1H223J125AA		
07 . F	0040	0.00.045	±10%		C2012C0G1V273K060AC	
27 nF	2012	0.60±0.15	±5%		C2012C0G1V273J060AC	
30 nF	2012	0.60±0.15	±10%		C2012C0G1V303K060AC	
30 111	2012	0.0010.13	±5%		C2012C0G1V303J060AC	
	2012	1.25±0.20	±10%	C2012C0G1H333K125AA		
_		2020.20	±5%	C2012C0G1H333J125AA		C2012C0G1E333J125AA
33 nF	3216	0.85±0.15	±10%	C3216C0G1H333K085AA		
_			±5%	C3216C0G1H333J085AA		
	3225	1.60±0.20	±10%	C3225C0G1H333K160AA		
			±5%	C3225C0G1H333J160AA		
	3216	1.15±0.15	±10%	C3216C0G1H473K115AA		
_			±5% ±10%	C3216C0G1H473J115AA C3225C0G1H473K200AA		
47 nF	3225	2.00±0.20	±10%	C3225C0G1H473K200AA		
_			±10%	C4532C0G1H473K160KA		
	4532	1.60±0.20	±5%	C4532C0G1H473J160KA		
	00:-	100	±10%	C3216C0G1H683K160AA		
	3216	1.60±0.20	±5%	C3216C0G1H683J160AA		
60	2225	2 0010 20	±10%	C3225C0G1H683K200AA		
68 nF	3225	2.00±0.20	±5%	C3225C0G1H683J200AA		
_	4522	1 60+0 20	±10%	C4532C0G1H683K160KA		
	4532	1.60±0.20	±5%	C4532C0G1H683J160KA		
	3216	1.60±0.20	±10%	C3216C0G1H104K160AA		
_	5 <u>2</u> 10	1.00±0.20	±5%	C3216C0G1H104J160AA		
100 nF	3225	2.50±0.30	±10%	C3225C0G1H104K250AA		
		2.0020.00	±5%	C3225C0G1H104J250AA		
	4532	2.00±0.20	±10%	C4532C0G1H104K200KA		
_			±5%	C4532C0G1H104J200KA		
	1002			0.45000000411155000000000000000000000000		
150 nF	4532	2.50±0.30	±10%	C4532C0G1H154K250KA		
150 nF		2.50±0.30		C4532C0G1H154K250KA C4532C0G1H154J250KA C4532C0G1H224K320KA		

hease be sure to request delivery specifications that provide further details on the features and specifications of the products for proper and safe use. Please note that the contents may change without any prior notice due to reasons such as upgrading.



# **Capacitance Range Table**

### Class 1 (Temperature Compensating)

Capacitance	Size	Thickness	Capacitance _	Catalog Number		
Japacitarice		(mm)	Tolerance	Rated Voltage Edc: 50V	Rated Voltage Edc: 25V	Rated Voltage Edc: 16V
_	0402	0.20±0.02	±0.25pF			C0402CH1C0R5C020BC
_	0603	0.30±0.03	±0.25pF	C0603CH1H0R5C030BA	C0603CH1E0R5C030BA	
0.5 pF	1005	0.50±0.05	±0.10pF	C1005CH1H0R5B050BA		
_			±0.25pF	C1005CH1H0R5C050BA		
	1608	0.80±0.10	±0.25pF	C1608CH1H0R5C080AA		
_	0402	0.20±0.02	±0.25pF			C0402CH1CR75C020BC
_	0603	0.30±0.03	±0.25pF	C0603CH1HR75C030BA	C0603CH1ER75C030BA	
0.75 pF	1005	0.50±0.05	±0.10pF	C1005CH1HR75B050BA		
_	1000	0.0010.00	±0.25pF	C1005CH1HR75C050BA		
	1608	0.80±0.10	±0.25pF	C1608CH1HR75C080AA		
_	0402	0.20±0.02	±0.25pF			C0402CH1C010C020BC
	0603	$0.30\pm0.03$	±0.25pF	C0603CH1H010C030BA	C0603CH1E010C030BA	
1 pF	1005	0.5010.05	±0.10pF	C1005CH1H010B050BA		
	1005	0.50±0.05	±0.25pF	C1005CH1H010C050BA		
_	1608	0.80±0.10	±0.25pF	C1608CH1H010C080AA		
	0402	0.20±0.02	±0.25pF			C0402CH1C1R5C020BC
_	0603	0.30±0.03	±0.25pF	C0603CH1H1R5C030BA	C0603CH1E1R5C030BA	
1.5 pF			±0.10pF	C1005CH1H1R5B050BA		
·	1005	0.50±0.05	±0.25pF	C1005CH1H1R5C050BA		
_	1608	0.80±0.10	±0.25pF	C1608CH1H1R5C080AA		
	0402	0.20±0.02	±0.25pF			C0402CH1C020C020BC
_	0603	0.30±0.03	±0.25pF	C0603CH1H020C030BA	C0603CH1E020C030BA	
2 pF			±0.10pF	C1005CH1H020B050BA		
- 1	1005	0.50±0.05	±0.25pF	C1005CH1H020C050BA		
_	1608	0.80±0.10	±0.25pF	C1608CH1H020C080AA		
	0402	0.20±0.02	±0.25pF			C0402CH1C2R2C020BC
2.2 pF —	0603	0.30±0.03	±0.25pF	C0603CH1H2R2C030BA	C0603CH1E2R2C030BA	
	0402	0.20±0.02	±0.25pF	0000001111121120000071	OGGGGTTTEET(EGGGGE)(	C0402CH1C030C020BC
_	0603	0.30±0.02	±0.25pF	C0603CH1H030C030BA	C0603CH1E030C030BA	0040201110000002020
3 pF	0000	0.0010.00	±0.10pF	C1005CH1H030B050BA	COCOSCITIEOSOCOSOBA	
о рі	1005	0.50±0.05	±0.25pF	C1005CH1H030C050BA		
_	1608	0.80±0.10	±0.25pF	C1608CH1H030C080AA		
	0402	0.20±0.10	±0.25pF	C1000C11111030C000AA		C0402CH1C3R3C020BC
3.3 pF -	0603	0.20±0.02 0.30±0.03		C0603CH1H3B3C030BA	C0603CH1E3R3C030BA	C0402C111C31(3C020DC
	0402	0.30±0.03 0.20±0.02	±0.25pF ±0.25pF	C0603CH1H3R3C030BA	CUOUSCHIESKSCUSUBA	C0402CH1C040C020BC
_				C0603CH1H040C030BA	C0603CH1E040C030BA	C0402CITIC040C020BC
4 pF	0603	0.30±0.03	±0.25pF	C0603CH1H040C030BA	C0603CH1E040C030BA	
4 pr	1005	0.50±0.05	±0.10pF	C1005CH1H040B050BA		
_	4000	0.00+0.40	±0.25pF	C1005CH1H040C050BA		
	1608	0.80±0.10	±0.25pF	C1608CH1H040C080AA		00400011404D70000D0
4.7 pF —	0402	0.20±0.02	±0.25pF	000000141407000004	000000145457000054	C0402CH1C4R7C020BC
	0603	0.30±0.03	±0.25pF	C0603CH1H4R7C030BA	C0603CH1E4R7C030BA	004000114005000000
_	0402	0.20±0.02	±0.25pF	000000141105000000	000000114505000000	C0402CH1C050C020BC
	0603	0.30±0.03	±0.25pF	C0603CH1H050C030BA	C0603CH1E050C030BA	
5 pF	1005	0.50±0.05	±0.10pF	C1005CH1H050B050BA		
_			±0.25pF	C1005CH1H050C050BA		
	1608	0.80±0.10	±0.25pF	C1608CH1H050C080AA		
_	0402	0.20±0.02	±0.50pF			C0402CH1C060D020BC
_	0603	0.30±0.03	±0.50pF	C0603CH1H060D030BA	C0603CH1E060D030BA	
6 pF	1005	0.50±0.05	±0.25pF	C1005CH1H060C050BA		
			±0.50pF	C1005CH1H060D050BA		
	1608	0.80±0.10	±0.25pF	C1608CH1H060C080AA		
	1000	0.00±0.10	±0.50pF	C1608CH1H060D080AA		
6.8 pF —	0402	0.20±0.02	±0.50pF			C0402CH1C6R8D020BC
υ.υ μι	0603	0.30±0.03	±0.50pF	C0603CH1H6R8D030BA	C0603CH1E6R8D030BA	
	0402	0.20±0.02	±0.50pF			C0402CH1C070D020BC
_	0603	0.30±0.03	±0.50pF	C0603CH1H070D030BA	C0603CH1E070D030BA	
_	4005	0.50±0.05	±0.25pF	C1005CH1H070C050BA		
7 pF 1005						
7 pF	1005	0.3010.03	±0.50pF	C1005CH1H070D050BA		
7 pF	1608	0.80±0.10	±0.50pF ±0.25pF	C1005CH1H070D050BA C1608CH1H070C080AA		

<sup>■</sup> The gray items are non-recommended products in the new design.

hease be sure to request delivery specifications that provide further details on the features and specifications of the products for proper and safe use. Please note that the contents may change without any prior notice due to reasons such as upgrading.



# **Capacitance Range Table**

### Class 1 (Temperature Compensating)

apacitance	Size	Thickness	Capacitance _	Catalog Number	B	B . 11/2 =
		(mm)	Tolerance	Rated Voltage Edc: 50V	Rated Voltage Edc: 25V	Rated Voltage Edc: 16V
_	0402	0.20±0.02	±0.50pF	00000011411000D000D4	0000001145000000000	C0402CH1C080D020B0
_	0603	0.30±0.03	±0.50pF	C0603CH1H080D030BA	C0603CH1E080D030BA	
8 pF	1005	0.50±0.05	±0.25pF	C1005CH1H080C050BA		
· –			±0.50pF	C1005CH1H080D050BA		
	1608	0.80±0.10	±0.25pF	C1608CH1H080C080AA		
	0.100	0.00.000	±0.50pF	C1608CH1H080D080AA		
_	0402	0.20±0.02	±0.50pF			C0402CH1C090D020B
_	0603	0.30±0.03	±0.50pF	C0603CH1H090D030BA	C0603CH1E090D030BA	
9 pF	1005	0.50±0.05	±0.25pF	C1005CH1H090C050BA		
· –			±0.50pF	C1005CH1H090D050BA		
	1608	0.80±0.10	±0.25pF	C1608CH1H090C080AA		
			±0.50pF	C1608CH1H090D080AA		
_	0402	0.20±0.02	±0.50pF			C0402CH1C100D020B0
_	0603	0.30±0.03	±0.50pF	C0603CH1H100D030BA	C0603CH1E100D030BA	
10 pF	1005	0.50±0.05	±0.25pF	C1005CH1H100C050BA		
			±0.50pF	C1005CH1H100D050BA		
	1608	0.80±0.10	±0.25pF	C1608CH1H100C080AA		
			±0.50pF	C1608CH1H100D080AA		0040001110100170
	0402	0.20±0.02	±10%			C0402CH1C120K020B0
_			±5%	00000011411100110000	000000114E:000000	C0402CH1C120J020B0
12 pF	0603	0.30±0.03	±10%	C0603CH1H120K030BA	C0603CH1E120K030BA	
. –			±5%	C0603CH1H120J030BA	C0603CH1E120J030BA	
_	1005	0.50±0.05	±5%	C1005CH1H120J050BA		
	1608	0.80±0.10	±5%	C1608CH1H120J080AA		
	0402	0.20±0.02	±10%			C0402CH1C150K020B0
_			±5%			C0402CH1C150J020B0
15 pF	0603	0.30±0.03	±10%	C0603CH1H150K030BA	C0603CH1E150K030BA	
			±5%	C0603CH1H150J030BA	C0603CH1E150J030BA	
	1005	0.50±0.05	±5%	C1005CH1H150J050BA		
	1608	0.80±0.10	±5%	C1608CH1H150J080AA		
	0402 0.20±0.	0.20±0.02	±10%			C0402CH1C180K020B0
_			±5%			C0402CH1C180J020B0
18 pF	0603	0.30±0.03	±10%	C0603CH1H180K030BA	C0603CH1E180K030BA	
.ор. —			±5%	C0603CH1H180J030BA	C0603CH1E180J030BA	
_	1005	0.50±0.05	±5%	C1005CH1H180J050BA		
	1608	0.80±0.10	±5%	C1608CH1H180J080AA		
	0402	0.20±0.02	±10%			C0402CH1C220K020B0
_	0102	0.2010.02	±5%			C0402CH1C220J020B0
22 pF	0603	0.30±0.03	±10%	C0603CH1H220K030BA	C0603CH1E220K030BA	
22 pi	0003	0.5010.05	±5%	C0603CH1H220J030BA	C0603CH1E220J030BA	
	1005	0.50±0.05	±5%	C1005CH1H220J050BA		
	1608	0.80±0.10	±5%	C1608CH1H220J080AA		
	0402	0.20±0.02	±10%			C0402CH1C270K020B0
_	U <del>1</del> UZ	0.20±0.02	±5%			C0402CH1C270J020B0
27 pF	0603	0.30+0.03	±10%	C0603CH1H270K030BA	C0603CH1E270K030BA	
27 pF	0603	0.30±0.03	±5%	C0603CH1H270J030BA	C0603CH1E270J030BA	
	1005	0.50±0.05	±5%	C1005CH1H270J050BA		
	1608	0.80±0.10	±5%	C1608CH1H270J080AA		
	0402	0.3010.03	±10%			C0402CH1C330K020B
	0402	0.20±0.02	±5%			C0402CH1C330J020B0
22 5 5	0600	0.20.0.00	±10%	C0603CH1H330K030BA	C0603CH1E330K030BA	
33 pF	0603	0.30±0.03	±5%	C0603CH1H330J030BA	C0603CH1E330J030BA	
_	1005	0.50±0.05	±5%	C1005CH1H330J050BA		
_	1608	0.80±0.10	±5%	C1608CH1H330J080AA		
			±10%			C0402CH1C390K020B
	0402	0.20±0.02	±5%			C0402CH1C390J020B0
	2057	0.00	±10%	C0603CH1H390K030BA	C0603CH1E390K030BA	
39 pF	0603	0.30±0.03	±5%	C0603CH1H390J030BA	C0603CH1E390J030BA	
_	1005	0.50±0.05	±5%	C1005CH1H390J050BA		
_		0.80±0.10	±5%	C1608CH1H390J080AA		

 $<sup>\</sup>blacksquare$  The gray items are non-recommended products in the new design.



# **Capacitance Range Table**

### Class 1 (Temperature Compensating)

	C:-	Thickness	Capacitance	Catalog Number		
apacitance	Size	(mm)	Tolerance	Rated Voltage Edc: 50V	Rated Voltage Edc: 25V	Rated Voltage Edc: 16V
	0402	0.20±0.02	±10%			C0402CH1C470K020B0
_	0402	0.2010.02	±5%			C0402CH1C470J020BC
47 pF	0603	0.30±0.03	±10%	C0603CH1H470K030BA	C0603CH1E470K030BA	
41 pr	0003	0.30±0.03	±5%	C0603CH1H470J030BA	C0603CH1E470J030BA	
	1005	0.50±0.05	±5%	C1005CH1H470J050BA		
	1608	0.80±0.10	±5%	C1608CH1H470J080AA		
	0402	0.2010.02	±10%			C0402CH1C560K020B0
	0402	0.20±0.02	±5%			C0402CH1C560J020B0
F6 pF	0603	0.30±0.03	±10%	C0603CH1H560K030BA	C0603CH1E560K030BA	
56 pF	0603	0.30±0.03	±5%	C0603CH1H560J030BA	C0603CH1E560J030BA	
_	1005	0.50±0.05	±5%	C1005CH1H560J050BA		
_	1608	0.80±0.10	±5%	C1608CH1H560J080AA		
	0.400	0.00.000	±10%			C0402CH1C680K020B0
	0402	0.20±0.02	±5%			C0402CH1C680J020BC
-	0000	0.00.000	±10%	C0603CH1H680K030BA	C0603CH1E680K030BA	
68 pF	0603	0.30±0.03	±5%	C0603CH1H680J030BA	C0603CH1E680J030BA	
_	1005	0.50±0.05	±5%	C1005CH1H680J050BA		
_	1608	0.80±0.10	±5%	C1608CH1H680J080AA		
			±10%			C0402CH1C820K020B0
	0402	0.20±0.02	±5%			C0402CH1C820J020BC
	0		±10%	C0603CH1H820K030BA	C0603CH1E820K030BA	
82 pF	0603	0.30±0.03	±5%	C0603CH1H820J030BA	C0603CH1E820J030BA	
_	1005	0.50±0.05	±5%	C1005CH1H820J050BA		
_	1608	0.80±0.10	±5%	C1608CH1H820J080AA		
			±10%			C0402CH1C101K020B0
100 pF —	0402	0.20±0.02	±5%			C0402CH1C101J020B0
	0603	0.30±0.03	±10%	C0603CH1H101K030BA	C0603CH1E101K030BA	
			±5%	C0603CH1H101J030BA	C0603CH1E101J030BA	
			±10%	C1005CH1H101K050BA		
	1005	0.50±0.05	±5%	C1005CH1H101J050BA		
_	1608	1608 0.80±0.10	±10%	C1608CH1H101K080AA		
			±5%	C1608CH1H101J080AA		
			±10%	C1005CH1H121K050BA		
	1005	0.50±0.05	±5%	C1005CH1H121J050BA		
120 pF -	1608	608 0.80±0.10	±10%	C1608CH1H121K080AA		
			±5%	C1608CH1H121J080AA		
			±10%	C1005CH1H151K050BA		
	1005	0.50±0.05	±5%			
150 pF -				C1005CH1H151J050BA		
	1608	0.80±0.10	±10%	C1608CH1H151K080AA		
			±5%	C1608CH1H151J080AA		
	1005	0.50±0.05	±10%	C1005CH1H181K050BA		
180 pF -			±5%	C1005CH1H181J050BA		
	1608	0.80±0.10	±10%	C1608CH1H181K080AA		
			±5%	C1608CH1H181J080AA		
	1005	0.50±0.05	±10%	C1005CH1H221K050BA		
220 pF -			±5%	C1005CH1H221J050BA		
	1608	0.80±0.10	±10%	C1608CH1H221K080AA		
			±5%	C1608CH1H221J080AA		
	1005	0.50±0.05	±10%	C1005CH1H271K050BA		
270 pF -			±5%	C1005CH1H271J050BA		
~ P'	1608	0.80±0.10	±10%	C1608CH1H271K080AA		
		0.0020.10	±5%	C1608CH1H271J080AA		
	1005	0.50±0.05	±10%	C1005CH1H331K050BA		
330 pF -	1000	0.0010.00	±5%	C1005CH1H331J050BA		
000 pr	1608	0.80±0.10	±10%	C1608CH1H331K080AA		
	1000	0.00±0.10	±5%	C1608CH1H331J080AA		
	1005	0.50.005	±10%	C1005CH1H391K050BA		
	1005	$0.50 \pm 0.05$		C1005CH1H391J050BA		
000 - =	1000		±5%	C 1003C111113313030DA		
390 pF —	1608	0.80±0.10	±10%	C1608CH1H391K080AA		

 $<sup>\</sup>blacksquare$  The gray items are non-recommended products in the new design.



### Class 1 (Temperature Compensating)

Capacitance	Size	Thickness	Capacitance _	Catalog Number
·		(mm)	Tolerance	Rated Voltage Edc: 50V
	1005	0.50±0.05	±10%	C1005CH1H471K050BA
470 pF —			±5%	C1005CH1H471J050BA
	1608	0.80±0.10	±10%	C1608CH1H471K080AA
			±5%	C1608CH1H471J080AA
	1005	0.50±0.05	±10%	C1005CH1H561K050BA
560 pF -			±5% ±10%	C1005CH1H561J050BA C1608CH1H561K080AA
	1608	0.80±0.10	±10%	C1608CH1H561J080AA
			±10%	C1005CH1H561K050BA
	1005	$0.50 \pm 0.05$	±10%	C1005CH1H681J050BA
680 pF —			±10%	C1608CH1H681K080AA
	1608	0.80±0.10	±5%	C1608CH1H681J080AA
			±10%	C1005CH1H821K050BA
	1005	0.50±0.05	±5%	C1005CH1H821J050BA
820 pF —			±10%	C1608CH1H821K080AA
	1608	0.80±0.10	±5%	C1608CH1H821J080AA
			±10%	C1005CH1H102K050BA
	1005	$0.50 \pm 0.05$	±10%	C1005CH1H102K050BA
_			±10%	C1608CH1H102K080AA
1 nF	1608	0.80±0.10	±10% ±5%	C1608CH1H102K080AA
_				
	2012	0.60±0.15	±10% ±5%	C2012CH1H102K060AA C2012CH1H102J060AA
			±10%	C1608CH1H122K080AA
	1608	0.80±0.10		
1.2 nF -			±5%	C1608CH1H122J080AA C2012CH1H122K060AA
	2012	0.60±0.15	±10%	C2012CH1H122X060AA
			±5%	C1608CH1H152K080AA
1.5 nF -	1608	0.80±0.10	±10%	C1608CH1H152K080AA
			±5%	
	2012	0.60±0.15	±10%	C2012CH1H152K060AA
			±5%	C2012CH1H152J060AA
	1608	0.80±0.10	±10%	C1608CH1H182K080AA
1.8 nF —			±5%	C1608CH1H182J080AA
	2012	0.60±0.15	±10%	C2012CH1H182K060AA
			±5%	C2012CH1H182J060AA
	1608	0.80±0.10	±10%	C1608CH1H222K080AA
-			±5%	C1608CH1H222J080AA
2.2 nF	0040	0.60±0.15	±10%	C2012CH1H222K060AA
	2012		±5%	C2012CH1H222J060AA
		0.85±0.15	±5%	C2012CH1H222J085AA
	1608	0.80±0.10	±10%	C1608CH1H272K080AA
2.7 nF -			±5%	C1608CH1H272J080AA
	2012	0.60±0.15	±10%	C2012CH1H272K060AA
			±5%	C2012CH1H272J060AA
	1608	0.80±0.10	±10%	C1608CH1H332K080AA
22-5			±5%	C1608CH1H332J080AA
3.3 nF	2042	0.60±0.15	±10%	C2012CH1H332K060AA
	2012		±5%	C2012CH1H332J060AA
		1.25±0.20	±5%	C2012CH1H332J125AA
	1608	0.80±0.10	±10%	C1608CH1H392K080AA
_			±5%	C1608CH1H392J080AA
3.9 nF	2012	0.60±0.15	±10%	C2012CH1H392K060AA
_			±5%	C2012CH1H392J060AA
	3216	0.60±0.15	±10%	C3216CH1H392K060AA
			±5%	C3216CH1H392J060AA
	1608	0.80±0.10	±10%	C1608CH1H472K080AA
_			±5%	C1608CH1H472J080AA
4.7 nF	2012	0.60±0.15	±10%	C2012CH1H472K060AA
_			±5%	C2012CH1H472J060AA
	3216	0.60±0.15	±10% ±5%	C3216CH1H472K060AA C3216CH1H472J060AA

 $<sup>\</sup>blacksquare$  The gray items are non-recommended products in the new design.



### Class 1 (Temperature Compensating)

Size	Thickness (mm)	Capacitance _ Tolerance	Catalog Number Rated Voltage Edc: 50V	Rated Voltage Edc: 35V	
1600	0.90±0.10	±10%	C1608CH1H562K080AA		
1000	0.80±0.10	±5%	C1608CH1H562J080AA		
2012	0.60+0.15	±10%	C2012CH1H562K060AA		
	0.0020.10		C2012CH1H562J060AA		
3216	0.60±0.15				
1608	0.80±0.10				
2012	0.60±0.15				
3216	0.60±0.15				
1608	0.80±0.10				
2012	0.60±0.15				
3216	0.60±0.15	±5%			
4000	0.00.0.10	±10%	C1608CH1H103K080AA	C1608CH1V103K080AC	
1608	0.80±0.10	±5%	C1608CH1H103J080AA	C1608CH1V103J080AC	
2012	0.6010.45	±10%	C2012CH1H103K060AA		
2012	0.00±0.15	±5%	C2012CH1H103J060AA		
2216	0.6010.15	±10%	C3216CH1H103K060AA		
3210	0.00±0.15	±5%	C3216CH1H103J060AA		
1600	0.90±0.10	±10%		C1608CH1V153K080AC	
1000	0.80±0.10	±5%		C1608CH1V153J080AC	
2012	0.85+0.15	±10%	C2012CH1H153K085AA		
	0.0020.10	±5%	C2012CH1H153J085AA		
3216	0.60±0.15	-			
			C3216CH1H153J060AA		
1608 2012	0.80±0.10			C1608CH1V183K080AC	
				C1608CH1V183J080AC	
	2 0.60±0.15			C2012CH1V183K060AC	
				C2012CH1V183J060AC	
2012	0.60±0.15			C2012CH1V223K060AC	
	-		C2012CH1H223K125AA	C2012CH1V223J060AC	
	1.25±0.20				
3216	0.60±0.15				
3225	1.25±0.20				
0015	0.00:0:17	±10%		C2012CH1V273K060AC	
2012	0.60±0.15	±5%		C2012CH1V273J060AC	
2010	0.00:0.15	±10%		C2012CH1V303K060AC	
2012	0.60±0.15	±5%		C2012CH1V303J060AC	
2012	1 25 10 20	±10%	C2012CH1H333K125AA		
2012	1.2010.20	±5%	C2012CH1H333J125AA		
3216	0.85+0.15	±10%	C3216CH1H333K085AA		
02 IU	0.00±0.10	±5%	C3216CH1H333J085AA		
3225	1.60+0.20	±10%	C3225CH1H333K160AA		
0		±5%	C3225CH1H333J160AA		
3216	3216	1.15±0.15	±10%	C3216CH1H473K115AA	
	1.15±0.15	±5%	C3216CH1H473J115AA		
3210		1.4.00/	C3225CH1H473K200AA		
3225	2.00±0.20	±10%			
	2.00±0.20	±5%	C3225CH1H473J200AA		
	2.00±0.20 1.60±0.20	±5% ±10%	C4532CH1H473K160KA		
3225		±5% ±10% ±5%	C4532CH1H473K160KA C4532CH1H473J160KA		
3225		±5% ±10% ±5% ±10%	C4532CH1H473K160KA C4532CH1H473J160KA C3216CH1H683K160AA		
3225 4532	1.60±0.20	±5% ±10% ±5% ±10% ±5%	C4532CH1H473K160KA C4532CH1H473J160KA C3216CH1H683K160AA C3216CH1H683J160AA		
3225 4532	1.60±0.20	±5% ±10% ±5% ±10% ±5% ±10%	C4532CH1H473K160KA C4532CH1H473J160KA C3216CH1H683K160AA C3216CH1H683J160AA C3225CH1H683K200AA		
3225 4532 3216	1.60±0.20 1.60±0.20	±5% ±10% ±5% ±10% ±5%	C4532CH1H473K160KA C4532CH1H473J160KA C3216CH1H683K160AA C3216CH1H683J160AA		
	1608 2012 3216 1608 2012 3216 1608 2012 3216 1608 2012 3216 1608 2012 3216 1608 2012 3216 2012 3216 2012	Size	Tolerance	Tolerance	

hease be sure to request delivery specifications that provide further details on the features and specifications of the products for proper and safe use. Please note that the contents may change without any prior notice due to reasons such as upgrading.



### **Class 1 (Temperature Compensating)**

Temperature Characteristics: CH(-25 to +85°C, 0±60 ppm/°C)

Capacitance	Size	Thickness	Capacitance	Catalog Number
Сараспансе	Size	(mm)	Tolerance	Rated Voltage Edc: 50V
	3216	1.60±0.20	±10%	C3216CH1H104K160AA
	3210	1.00±0.20	±5%	C3216CH1H104J160AA
100 nF	3225	2.50±0.30	±10%	C3225CH1H104K250AA
100 11	3223	2.50±0.50	±5%	C3225CH1H104J250AA
_	4532	2.00±0.20	±10%	C4532CH1H104K200KA
	4002	2.00±0.20	±5%	C4532CH1H104J200KA
150 nF	4532	2.50±0.30	±10%	C4532CH1H154K250KA
130 11	4002	2.50±0.50	±5%	C4532CH1H154J250KA
220 nF	4532	3.20±0.30	±10%	C4532CH1H224K320KA
220 HF	4332	3.20±0.30	±5%	C4532CH1H224J320KA

### Class 2 (Temperature Stable)

Temperature Characteristics: JB(-25 to +85°C, ±10%)

Capacitance	Size	Thickness	Capacitance	Catalog Number		
-apaonanoo	0.20	(mm)	Tolerance	Rated Voltage Edc: 50V	Rated Voltage Edc: 25V	Rated Voltage Edc: 16V
	0402	0.20±0.02	±10%			C0402JB1C101K020BC
100 pF -			±20%		00000 10454041400004	C0402JB1C101M020BC
	0603	0.30±0.03	±10%		C0603JB1E101K030BA	
			±20%		C0603JB1E101M030BA	00400 ID4045414000D0
	0402	0.20±0.02	±10%			C0402JB1C151K020BC
150 pF -			±20%		00000 1045454140000	C0402JB1C151M020BC
	0603	0.30±0.03	±10%		C0603JB1E151K030BA	
			±20%		C0603JB1E151M030BA	C0402 ID4C224I/020DC
	0402	0.20±0.02	±10% ±20%			C0402JB1C221K020BC
_			±20% ±10%		C0002 ID4E224K020DA	C0402JB1C221M020BC
220 pF	0603	$0.30\pm0.03$	±10%		C0603JB1E221K030BA C0603JB1E221M030BA	
_			±20% ±10%	C4005 ID41 I224 K050DA	CU0U3JBTEZZTWU3UBA	
	1005	$0.50 \pm 0.05$	±10%	C1005JB1H221K050BA		
			±20% ±10%	C1005JB1H221M050BA		C0402 ID4C224I/020DC
	0402	0.20±0.02	±10%			C0402JB1C331K020BC
_					C0002 ID4E224K020DA	C0402JB1C331M020BC
330 pF	0603	0.30±0.03	±10% ±20%		C0603JB1E331K030BA	
_			±20% ±10%	C1005JB1H331K050BA	C0603JB1E331M030BA	
	1005	0.50±0.05	±10% ±20%			
			±20% ±10%	C1005JB1H331M050BA		C0402 ID4C474I/020DC
	0402	0.20±0.02	±10%			C0402JB1C471K020BC
_			±20%		C0603JB1E471K030BA	C0402JB1C471M020BC
470 pF	0603	$0.30\pm0.03$	±10%		C0603JB1E471M030BA	
			±10%	C4005 ID4LI474I/050D4	CUOUSJB IE47 IIVIUSUBA	
	1005	0.50±0.05		C1005JB1H471K050BA		
			±20%	C1005JB1H471M050BA		C0402 ID4C604I/020DC
	0402	0.20±0.02	±10% ±20%			C0402JB1C681K020BC
_					C0002 ID4E004K020DA	C0402JB1C681M020BC
680 pF	0603	$0.30\pm0.03$	±10%		C0603JB1E681K030BA	
_			±20%	C4005 ID41 IC04/C050D4	C0603JB1E681M030BA	
	1005	$0.50 \pm 0.05$	±10% ±20%	C1005JB1H681K050BA		
				C1005JB1H681M050BA	00000 ID4E4001/000D4	
	0603	0.30±0.03	±10%		C0603JB1E102K030BA	
1 nF -			±20%	C4005 ID41 I400K050DA	C0603JB1E102M030BA	
	1005	0.50±0.05	±10%	C1005JB1H102K050BA		
			±20%	C1005JB1H102M050BA	C0C02 ID4E4E0K020D4	
	0603	0.30±0.03	±10%		C0603JB1E152K030BA	
1.5 nF -			±20%	C1005 ID1U152K050D A	C0603JB1E152M030BA	
	1005	0.50±0.05	±10%	C1005JB1H152K050BA		
			±20%	C1005JB1H152M050BA	C0C00 ID4E0001/000D*	
	0603	0.30±0.03	±10%		C0603JB1E222K030BA	
2.2 nF -			±20%	C1005 ID1H222K050D *	C0603JB1E222M030BA	
	1005	0.50±0.05	±10%	C1005JB1H222K050BA		
			±20%	C1005JB1H222M050BA	C0C00 ID4E000K000D*	
	0603	0.30±0.03	±10%		C0603JB1E332K030BA	
3.3 nF -			±20%	C400E ID4L1000K0E0D *	C0603JB1E332M030BA	
	1005	0.50±0.05	±10%	C1005JB1H332K050BA		
			±20%	C1005JB1H332M050BA		00000 ID 40 4701/2022
	0603	0.30±0.03	±10%			C0603JB1C472K030BA
4.7 nF -			±20%	0.4005 ID411/========		C0603JB1C472M030BA
	1005	0.50±0.05	±10%	C1005JB1H472K050BA		
			±20%	C1005JB1H472M050BA		

 $<sup>\</sup>blacksquare$  The gray items are non-recommended products in the new design.

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# **Capacitance Range Table**

### Class 2 (Temperature Stable)

Temperature Characteristics: JB(-25 to +85°C, ±10%)

Capacitance	Size	Thickness	Capacitance _	Catalog Number	D-1-11/-H- E1 05/	D-4-41/64- 51 051/	D-4-41/-"	
-		(mm)	Tolerance	Rated Voltage Edc: 50V	Rated Voltage Edc: 35V	Rated Voltage Edc: 25V	Rated Voltage Edc: 16V	
6.8 nF	1005	0.50±0.05	±10%	C1005JB1H682K050BA				
			±20%	C1005JB1H682M050BA		C1005 IB1E103M0E0B4		
	1005	0.50±0.05	±10% ±20%	C1005JB1H103K050BB C1005JB1H103M050BB		C1005JB1E103K050BA		
10 nF			±20%	C1608JB1H103K080AA		C1005JB1E103M050BA		
	1608	0.80±0.10	±10%	C1608JB1H103K080AA				
			±20%	C1005JB1H153K050BB		C1005JB1E153K050BA	C1005JB1C153K050BA	
	1005	0.50±0.05	±10%	C1005JB1H153K050BB		C1005JB1E153M050BA	C1005JB1C153K050BA	
15 nF —			±10%	C1608JB1H153K080AA		C 10033B 1E 133W030BA	C 10033D 1C 13310030D/	
	1608	0.80±0.10	±20%	C1608JB1H153M080AA				
			±10%	010000B111103W000AA		C0603JB1E223K030BB		
	0603	0.30±0.03	±20%			C0603JB1E223M030BB		
_			±10%	C1005JB1H223K050BB		C1005JB1E223K050BA	C1005JB1C223K050BA	
22 nF	1005	0.50±0.05	±20%	C1005JB1H223M050BB		C1005JB1E223M050BA	C1005JB1C223M050BA	
_			±10%	C1608JB1H223K080AA		0.100000.1220.11000007.	0100000102201100000	
	1608	0.80±0.10	±20%	C1608JB1H223M080AA				
			±10%	C1005JB1H333K050BB		C1005JB1E333K050BA	C1005JB1C333K050BA	
	1005	0.50±0.05	±20%	C1005JB1H333M050BB		C1005JB1E333M050BA	C1005JB1C333M050BA	
33 nF —			±10%	C1608JB1H333K080AA				
	1608	0.80±0.10	±20%	C1608JB1H333M080AA				
			±10%			C0603JB1E473K030BB		
	0603	0.30±0.03	±20%			C0603JB1E473M030BB		
	1005	0.50.005	±10%	C1005JB1H473K050BB		C1005JB1E473K050BA	C1005JB1C473K050BA	
47 nF	1005	5 0.50±0.05	±20%	C1005JB1H473M050BB		C1005JB1E473M050BA	C1005JB1C473M050BA	
_	4000	0.80±0.10	0.00±0.10	±10%	C1608JB1H473K080AA			
160	1608		±20%	C1608JB1H473M080AA				
	1005	1005 0.50±0.05	±10%	C1005JB1H683K050BB	C1005JB1V683K050BB	C1005JB1E683K050BC	C1005JB1C683K050BA	
60 pF	1005		±20%	C1005JB1H683M050BB	C1005JB1V683M050BB	C1005JB1E683M050BC	C1005JB1C683M050BA	
68 nF —	1608	08 0.80±0.10	±10%	C1608JB1H683K080AA				
	1000	0.00±0.10	±20%	C1608JB1H683M080AA				
	0603	0603 0.30±0.03	±10%			C0603JB1E104K030BB	C0603JB1C104K030BC	
	0603	0003 0.30±0.03	±20%			C0603JB1E104M030BB	C0603JB1C104M030B0	
	1005	1005 0.50±0.05	±10%	C1005JB1H104K050BB	C1005JB1V104K050BB	C1005JB1E104K050BC	C1005JB1C104K050BA	
100 nF —	1005		±20%	C1005JB1H104M050BB	C1005JB1V104M050BB	C1005JB1E104M050BC	C1005JB1C104M050BA	
100 111	1608	0.80±0.10	±10%	C1608JB1H104K080AA				
	1000	1000 U.0U±U.1U	±20%	C1608JB1H104M080AA				
	2012	0.85±0.15	±10%	C2012JB1H104K085AA				
	2012	0.0010.10	±20%	C2012JB1H104M085AA				
		0.30±0.03	±10%				C0603JB1C154K030BC	
	0.30±0.03	0.0020.00	±20%				C0603JB1C154M030B0	
	0000	0.30±0.05	±10%			C0603JB1E154K030BC		
_		0.0020.00	±20%			C0603JB1E154M030BC		
150 nF	1005	0.50±0.05	±10%			C1005JB1E154K050BC	C1005JB1C154K050BB	
_			±20%			C1005JB1E154M050BC	C1005JB1C154M050BE	
	1608	0.80±0.10	±10%	C1608JB1H154K080AB	C1608JB1V154K080AB	C1608JB1E154K080AA		
_			±20%	C1608JB1H154M080AB	C1608JB1V154M080AB	C1608JB1E154M080AA		
	2012	0.85±0.15	±10%	C2012JB1H154K085AA				
			±20%	C2012JB1H154M085AA				
		0.30±0.03	±10%				C0603JB1C224K030BC	
	0603		±20%			00000 ID 4500 4400000	C0603JB1C224M030B0	
		0.30±0.05	±10%			C0603JB1E224K030BC		
_			±20%			C0603JB1E224M030BC	C400E ID40004K050D5	
220 nF	1005	0.50±0.05	±10%			C1005JB1E224K050BC	C1005JB1C224K050BE	
_			±20%	C1600 ID1H004K000AB	C1600 ID4\/004\/000AD	C1005JB1E224M050BC	C1005JB1C224M050BE	
	1608	0.80±0.10	±10%	C1608JB1H224K080AB	C1608JB1V224K080AB	C1608JB1E224K080AA C1608JB1E224M080AA		
_			±20%	C1608JB1H224M080AB	C1608JB1V224M080AB	C TOUOJD TEZZAMUSUAA		
	2012	1.25±0.20	±10%	C2012JB1H224K125AA				
			±20%	C2012JB1H224M125AA	0400E ID4\/004K0E0D0	C4005 ID45004K050DD	0400E ID40004K050D	
	1005	0.50±0.05	±10%		C1005JB1V334K050BC	C1005JB1E334K050BB	C1005JB1C334K050BC	
330 nF -			±20%	C4600 ID4I I004I/000AD	C1005JB1V334M050BC	C1005JB1E334M050BB	C1005JB1C334M050BC	
	1608	0.80±0.10	±10%	C1608JB1H334K080AB	C1608JB1V334K080AB	C1608JB1E334K080AC	C1608JB1C334K080AA	
	1000	0.00±0.10	±20%	C1608JB1H334M080AB	C1608JB1V334M080AB	C1608JB1E334M080AC	C1608JB1C334M080AA	

<sup>■</sup> The gray items are non-recommended products in the new design.

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# **Capacitance Range Table**

### Class 2 (Temperature Stable)

Temperature Characteristics: JB(-25 to +85°C, ±10%)

Capacitance	Size	Thickness (mm)	Capacitance _ Tolerance	Catalog Number Rated Voltage Edc: 50V	Rated Voltage Edc: 35V	Rated Voltage Edc: 25V	Rated Voltage Edc: 16V					
000 - 5	0040	, ,	±10%	C2012JB1H334K125AA	rates vehage 240. 55 v	. tatou voltago 240. 20 v	Tatou Tollago 240. 101					
330 nF	2012	1.25±0.20	±20%	C2012JB1H334M125AA								
	1005	0.5010.05	±10%		C1005JB1V474K050BC	C1005JB1E474K050BB	C1005JB1C474K050BC					
_	1005	0.50±0.05	±20%		C1005JB1V474M050BC	C1005JB1E474M050BB	C1005JB1C474M050B0					
470 nF	1608	0.80±0.10	±10%	C1608JB1H474K080AB	C1608JB1V474K080AB	C1608JB1E474K080AC	C1608JB1C474K080AA					
-		0.0020.10	±20%	C1608JB1H474M080AB	C1608JB1V474M080AB	C1608JB1E474M080AC	C1608JB1C474M080AA					
	2012	1.25±0.20	±10%	C2012JB1H474K125AB								
			±20%	C2012JB1H474M125AB	C1005JB1V684K050BC	C1005JB1E684K050BC	C1005JB1C684K050BC					
	1005	0.50±0.05	±10% ±20%		C1005JB1V684M050BC	C1005JB1E684M050BC	C1005JB1C684M050BC					
=			±10%	C1608JB1H684K080AB	C1608JB1V684K080AB	C1608JB1E684K080AC	C1608JB1C684K080AA					
680 nF	1608	0.80±0.10	±20%	C1608JB1H684M080AB	C1608JB1V684M080AB	C1608JB1E684M080AC	C1608JB1C684M080AA					
=	0040	1.05:0.00	±10%	C2012JB1H684K125AB		C2012JB1E684K125AA						
	2012	1.25±0.20	±20%	C2012JB1H684M125AB		C2012JB1E684M125AA						
	1005	0.50±0.05	±10%		C1005JB1V105K050BC	C1005JB1E105K050BC	C1005JB1C105K050BC					
_	1005	0.3010.03	±20%		C1005JB1V105M050BC	C1005JB1E105M050BC	C1005JB1C105M050BC					
	1608	0.80±0.10	±10%	C1608JB1H105K080AB	C1608JB1V105K080AB	C1608JB1E105K080AC	C1608JB1C105K080AA					
=			±20%	C1608JB1H105M080AB	C1608JB1V105M080AB	C1608JB1E105M080AC	C1608JB1C105M080AA					
1 µF		0.85±0.15	±10%	C2012JB1H105K085AB	C2012JB1V105K085AB	C2012JB1E105K085AC	C2012JB1C105K085AA					
	2012		±20% ±10%	C2012JB1H105M085AB C2012JB1H105K125AB	C2012JB1V105M085AB	C2012JB1E105M085AC C2012JB1E105K125AA	C2012JB1C105M085AA					
		1.25±0.20	±10%	C2012JB1H105K125AB		C2012JB1E105M125AA						
=			±10%	C3216JB1H105K160AA		02012001210011120701						
	3216	1.60±0.20	±20%	C3216JB1H105M160AA								
		0.50.0.05	±10%				C1005JB1C155K050BC					
		0.50±0.05	±20%				C1005JB1C155M050B0					
	1005	0.50±0.10	±10%			C1005JB1E155K050BC						
	1005	0.3010.10	±20%			C1005JB1E155M050BC						
		0.50+0.15/-0.10	±10%		C1005JB1V155K050BC							
=			±20%		C1005JB1V155M050BC							
1.5 µF	1608	0.80±0.10	±10%		C1608JB1V155K080AC	C1608JB1E155K080AB	C1608JB1C155K080AB					
=			±20% ±10%		C1608JB1V155M080AC	C1608JB1E155M080AB C2012JB1E155K085AC	C1608JB1C155M080AE					
		0.85±0.15	±20%			C2012JB1E155M085AC						
	2012		±10%	C2012JB1H155K125AB	C2012JB1V155K125AB	C2012JB1E155K125AB	C2012JB1C155K125AA					
		1.25±0.20	±20%	C2012JB1H155M125AB	C2012JB1V155M125AB	C2012JB1E155M125AB	C2012JB1C155M125AA					
=	0040	1.00+0.00	±10%	C3216JB1H155K160AB		C3216JB1E155K160AA						
	3216	1.60±0.20	±20%	C3216JB1H155M160AB		C3216JB1E155M160AA						
		0.50±0.05	±10%				C1005JB1C225K050BC					
		0.0010.00	±20%				C1005JB1C225M050BC					
	1005	0.50±0.10	±10%			C1005JB1E225K050BC						
			±20%		04005 ID 4) (005)(050D 0	C1005JB1E225M050BC						
		0.50+0.15/-0.10	±10% ±20%		C1005JB1V225K050BC							
-			±20%		C1005JB1V225M050BC C1608JB1V225K080AC	C1608JB1E225K080AB	C1608JB1C225K080AB					
	1608	0.80±0.10	±10%		C1608JB1V225M080AC	C1608JB1E225M080AB	C1608JB1C225M080AB					
2.2 µF -			±10%	C2012JB1H225K085AB	C2012JB1V225K085AB	C2012JB1E225K085AB	C2012JB1C225K085AC					
	00:-	0.85±0.15	±20%	C2012JB1H225M085AB	C2012JB1V225M085AB	C2012JB1E225M085AB	C2012JB1C225M085AC					
	2012	2012	2012	2012	2012	2012	4.05:0.00	±10%	C2012JB1H225K125AB	C2012JB1V225K125AB	C2012JB1E225K125AC	C2012JB1C225K125AA
		1.25±0.20	±20%	C2012JB1H225M125AB	C2012JB1V225M125AB	C2012JB1E225M125AC	C2012JB1C225M125AA					
·=	3216	1.60±0.20	±10%	C3216JB1H225K160AB		C3216JB1E225K160AA						
_	3210	1.0010.20	±20%	C3216JB1H225M160AB		C3216JB1E225M160AA						
	3225	2.00±0.20	±10%	C3225JB1H225K200AA								
			±20%	C3225JB1H225M200AA								
		0.80±0.10	±10%			C1608JB1E335K080AC	C1608JB1C335K080AC					
	1608	-	±20%		C4600 ID4\/225K000AC	C1608JB1E335M080AC	C1608JB1C335M080A0					
		0.80+0.20, -0.10	±10%		C1608JB1V335K080AC C1608JB1V335M080AC							
-			±20% ±10%		O TOUGOD TV 333IVIUOUAC		C2012JB1C335K060AC					
		0.60±0.15	±10%				C2012JB1C335M060A0					
3.3 µF			±10%			C2012JB1E335K085AC	C2012JB1C335K085AE					
	2012	0.85±0.15	±20%			C2012JB1E335M085AC	C2012JB1C335M085AE					
		4.05:0.00	±10%	C2012JB1H335K125AB	C2012JB1V335K125AC	C2012JB1E335K125AB	C2012JB1C335K125AC					
		1.25±0.20	±20%	C2012JB1H335M125AB	C2012JB1V335M125AC	C2012JB1E335M125AB	C2012JB1C335M125AC					
_					C3216JB1V335K160AB	C3216JB1E335K160AA						
_	3216	1.60±0.20	±10%	C3216JB1H335K160AB	C32103D1V333K100AD	C32 100 D 1L333K 100AA						

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# **Capacitance Range Table**

### Class 2 (Temperature Stable)

Capacitance	Size	Thickness (mm)	Capacitance _ Tolerance	Catalog Number	Pated Voltage Ede: 251/	Pated Voltage Ede: 251/	Pated Valtage Ede: 461/
		(111111)	±10%	Rated Voltage Edc: 50V C3225JB1H335K250AA	Rated Voltage Edc: 35V	Rated Voltage Edc: 25V	Rated Voltage Edc: 16V
3.3 µF	3225	2.50±0.30	±10%	C3225JB1H335M250AA			
			±10%	032233B111333W230AA		C1608JB1E475K080AC	C1608JB1C475K080A0
		0.80±0.10	±20%			C1608JB1E475M080AC	C1608JB1C475M080A0
	1608	-	±10%		C1608JB1V475K080AC	0.00000712.11.0111.0007.0	0.100000.1011.01110007.1
		0.80+0.20, -0.10	±20%		C1608JB1V475M080AC		
=			±10%				C2012JB1C475K060A0
		0.60±0.15	±20%				C2012JB1C475M060A
			±10%			C2012JB1E475K085AC	C2012JB1C475K085AI
	2012	0.85±0.15	±20%			C2012JB1E475M085AC	C2012JB1C475M085A
		4.05:0.00	±10%	C2012JB1H475K125AB	C2012JB1V475K125AC	C2012JB1E475K125AB	C2012JB1C475K125A0
4.7 µF		1.25±0.20	±20%	C2012JB1H475M125AB	C2012JB1V475M125AC	C2012JB1E475M125AB	C2012JB1C475M125A
-		0.05+0.40	±10%	C3216JB1H475K085AB	C3216JB1V475K085AB	C3216JB1E475K085AB	
		0.85±0.10	±20%	C3216JB1H475M085AB	C3216JB1V475M085AB	C3216JB1E475M085AB	
	0040	4.45:0.40	±10%			C3216JB1E475K115AB	
	3216	1.15±0.10	±20%			C3216JB1E475M115AB	
		4.00+0.00	±10%	C3216JB1H475K160AB	C3216JB1V475K160AB	C3216JB1E475K160AA	
		1.60±0.20	±20%	C3216JB1H475M160AB	C3216JB1V475M160AB	C3216JB1E475M160AA	
_	3225	2 50 10 20	±10%	C3225JB1H475K250AB			
	3223	2.50±0.30	±20%	C3225JB1H475M250AB			
	1608	0.0010.20 0.10	±10%			C1608JB1E685K080AC	C1608JB1C685K080A
	1000	0.80+0.20, -0.10	±20%			C1608JB1E685M080AC	C1608JB1C685M080A
_		0.85±0.15	±10%				C2012JB1C685K085A0
	2012	0.05±0.15	±20%				C2012JB1C685M085A0
	2012	1.25±0.20	±10%		C2012JB1V685K125AC	C2012JB1E685K125AC	C2012JB1C685K125A0
_		1.2310.20	±20%		C2012JB1V685M125AC	C2012JB1E685M125AC	C2012JB1C685M125A
6.8 µF	3216	1.60±0.20	±10%	C3216JB1H685K160AB	C3216JB1V685K160AB	C3216JB1E685K160AB	C3216JB1C685K160A
υ.υ μι	3210	1.0010.20	±20%	C3216JB1H685M160AB	C3216JB1V685M160AB	C3216JB1E685M160AB	C3216JB1C685M160A
		2.00±0.20	±10%			C3225JB1E685K200AA	C3225JB1C685K200A
	3225	2.0010.20	±20%			C3225JB1E685M200AA	C3225JB1C685M200A
	0220	2.50±0.30	±10%	C3225JB1H685K250AB			
_		2.0010.00	±20%	C3225JB1H685M250AB			
	4532	2.50±0.30	±10%	C4532JB1H685K250KA			
			±20%	C4532JB1H685M250KA			
-	1608	0.80+0.20, -0.10	±20%			C1608JB1E106M080AC	C1608JB1C106M080A
		0.85±0.15	±10%		C2012JB1V106K085AC	C2012JB1E106K085AC	C2012JB1C106K085A0
	2012	-	±20%		C2012JB1V106M085AC	C2012JB1E106M085AC	C2012JB1C106M085A
		1.25±0.20	±10%		C2012JB1V106K125AC	C2012JB1E106K125AB	C2012JB1C106K125AE
=			±20%		C2012JB1V106M125AC	C2012JB1E106M125AB	C2012JB1C106M125AI
		0.85±0.10	±10%			C3216JB1E106K085AC	C3216JB1C106K085AE
	3216		±20%			C3216JB1E106M085AC	C3216JB1C106M085AI
10 μF		1.60±0.20	±10%	C3216JB1H106K160AB	C3216JB1V106K160AB	C3216JB1E106K160AB	C3216JB1C106K160AA
-			±20%	C3216JB1H106M160AB	C3216JB1V106M160AB	C3216JB1E106M160AB	C3216JB1C106M160A
		2.00±0.20	±10%				C3225JB1C106K200AA
	3225	-	±20%	00005 1041 14001/050 4.0		00005 10454001/05044	C3225JB1C106M200AA
		2.50±0.30	±10%	C3225JB1H106K250AB		C3225JB1E106K250AA	
=			±20%	C3225JB1H106M250AB		C3225JB1E106M250AA	
4532	4532	2.50±0.30	±10%			C4532JB1E106K250KA	
	2012	1 25 10 20	±20%		C2042 IB4V/456M425AC	C4532JB1E106M250KA	C2042 ID4C4E6M42EA
=	2012	1.25±0.20	±20%		C2012JB1V156M125AC	C2012JB1E156M125AC	C2012JB1C156M125A
15 μF —	3216 3225	1.60±0.20	±20%		C3216JB1V156M160AC	C3216JB1E156M160AB	C3216JB1C156M160A
		2.50±0.30 2.50±0.30	±20%			C4522 ID4E456M250K4	C3225JB1C156M250A
	4532		±20%			C4532JB1E156M250KA	C2012 IB1C226M095A
	2012	0.85±0.15	±20%		C2012 ID4\/226\4425AC	C2012 ID1E226M42EAC	C2012JB1C226M085A
=	2246	1.25±0.20	±20%		C2012JB1V226M125AC	C2012JB1E226M125AC	C2012JB1C226M125A
22	3216	1.60±0.20	±20%		C3216JB1V226M160AC	C3216JB1E226M160AB	C3216JB1C226M160AI
22 μF	3225	2.50±0.30	±20%				C3225JB1C226M250A
	4532	2.00±0.20	±20%			C4520 ID45200140501/4	C4532JB1C226M200K/
-	F750	2.50±0.30	±20%			C4532JB1E226M250KA	
	5750	2.50±0.30	±20%			C5750JB1E226M250KA	

hease be sure to request delivery specifications that provide further details on the features and specifications of the products for proper and safe use. Please note that the contents may change without any prior notice due to reasons such as upgrading.



# **Capacitance Range Table**

#### Class 2 (Temperature Stable)

Temperature Characteristics: JB(-25 to +85°C, ±10%)

	Capacitance	Size	Thickness	Capacitance	Catalog Number	
Сараспансе	SIZE	(mm)	Tolerance	Rated Voltage Edc: 25V	Rated Voltage Edc: 16V	
	33 µF —	3216	1.60±0.20	±20%	C3216JB1E336M160AC	C3216JB1C336M160AB
	33 μr <u> </u>	4532	2.50±0.30	±20%		C4532JB1C336M250KA
	47 µF	3216	1.60±0.20	±20%	C3216JB1E476M160AC	C3216JB1C476M160AB

### Class 2 (Temperature Stable)

Canacitanas	Ciro	Thickness	Capacitance	Catalog Number			
Capacitance	Size	(mm)	Tolerance	Rated Voltage Edc: 10V	Rated Voltage Edc: 6.3V	Rated Voltage Edc: 4V	
1 nF	0402	0.20±0.02	±10%	C0402JB1A102K020BC	C0402JB0J102K020BC	C0402JB0G102K020BC	
1 111	0402	0.2010.02	±20%	C0402JB1A102M020BC	C0402JB0J102M020BC	C0402JB0G102M020BC	
1.5 nF	0402	0.20±0.02	±10%	C0402JB1A152K020BC	C0402JB0J152K020BC	C0402JB0G152K020BC	
1.5111	0402	0.2010.02	±20%	C0402JB1A152M020BC	C0402JB0J152M020BC	C0402JB0G152M020BC	
2.2 nF	0402	0.20±0.02	±10%	C0402JB1A222K020BC	C0402JB0J222K020BC	C0402JB0G222K020BC	
2.2 11	0402	0.20±0.02	±20%	C0402JB1A222M020BC	C0402JB0J222M020BC	C0402JB0G222M020BC	
2 2 nE	0402	0.30+0.03	±10%	C0402JB1A332K020BC	C0402JB0J332K020BC	C0402JB0G332K020BC	
3.3 nF	0402	0.20±0.02	±20%	C0402JB1A332M020BC	C0402JB0J332M020BC	C0402JB0G332M020BC	
4.7 nF	0402	0.20±0.02	±10%	C0402JB1A472K020BC	C0402JB0J472K020BC	C0402JB0G472K020BC	
4.7 HF	0402	0.20±0.02	±20%	C0402JB1A472M020BC	C0402JB0J472M020BC	C0402JB0G472M020BC	
	0400	0.00+0.00	±10%	C0402JB1A682K020BC	C0402JB0J682K020BC	C0402JB0G682K020BC	
C 0 F	0402	0.20±0.02	±20%	C0402JB1A682M020BC	C0402JB0J682M020BC	C0402JB0G682M020BC	
6.8 nF -	0000	0.00.0.00	±10%	C0603JB1A682K030BA			
	0603	0.30±0.03	±20%	C0603JB1A682M030BA			
	0.400	0.00.0.00	±10%	C0402JB1A103K020BC	C0402JB0J103K020BC	C0402JB0G103K020BC	
10 =	0402	0.20±0.02	±20%	C0402JB1A103M020BC	C0402JB0J103M020BC	C0402JB0G103M020BC	
10 nF —			±10%	C0603JB1A103K030BA			
	0603	0.30±0.03	±20%	C0603JB1A103M030BA			
			±10%	C0603JB1A153K030BC	C0603JB0J153K030BA		
15 nF	0603	0.30±0.03	±20%	C0603JB1A153M030BC	C0603JB0J153M030BA		
			±10%	C0603JB1A223K030BC	C0603JB0J223K030BC		
22 nF	0603	0.30±0.03	±20%	C0603JB1A223M030BC	C0603JB0J223M030BC		
			±10%	C0603JB1A333K030BC	C0603JB0J333K030BC		
33 nF	0603	0.30±0.03	±20%	C0603JB1A333M030BC	C0603JB0J333M030BC		
			±10%	C0603JB1A473K030BC	C0603JB0J473K030BC		
	0603	0.30±0.03	±20%	C0603JB1A473M030BC	C0603JB0J473M030BC		
47 nF -	1005		±10%	C1005JB1A473K050BA			
	1005	0.50±0.05	±20%	C1005JB1A473M050BA			
			±10%	C0603JB1A683K030BC	C0603JB0J683K030BC		
	0603	0603	0.30±0.03	±20%	C0603JB1A683M030BC	C0603JB0J683M030BC	
68 nF -			±10%	C1005JB1A683K050BA			
	1005	0.50±0.05	±20%	C1005JB1A683M050BA			
			±10%	C0603JB1A104K030BC	C0603JB0J104K030BC		
	0603	0.30±0.03	±20%	C0603JB1A104M030BC	C0603JB0J104M030BC		
100 nF -			±10%	C1005JB1A104K050BA	000000000000000000000000000000000000000		
	1005	0.50±0.05	±20%	C1005JB1A104M050BA			
			±10%	C0603JB1A154K030BB	C0603JB0J154K030BB		
	0603	0.30±0.03	±20%	C0603JB1A154M030BB	C0603JB0J154M030BB		
150 nF -			±10%	C1005JB1A154K050BC	C1005JB0J154K050BB		
	1005	0.50±0.05	±20%	C1005JB1A154M050BC	C1005JB0J154M050BB		
			±10%	C0603JB1A224K030BB	C0603JB0J224K030BB		
	0603	0.30±0.03	±20%	C0603JB1A224M030BB	C0603JB0J224M030BB		
220 nF -			±10%	C1005JB1A224K050BC	C1005JB0J224K050BB		
	1005	$0.50 \pm 0.05$	±20%	C1005JB1A224M050BC	C1005JB0J224M050BB		
		0.30±0.03	±20%	C10033B1A224W030BC	C0603JB0J334M030BC		
330 nF	0603	0.50±0.05	±20%	C0603JB1A334K030BC	COOCOUDOUSSAINIUSUDG		
	0003	0.30±0.05	±10% ±20%	C0603JB1A334K030BC			
					C100E IDO 1224K0E0DD		
	1005	0.50±0.05	±10%	C1005JB1A334K050BC	C1005JB0J334K050BB		
		0.20+0.00	±20%	C1005JB1A334M050BC	C1005JB0J334M050BB		
	0603	0.30±0.03	±20%	C0000 ID4 A 4744 4000 DC	C0603JB0J474M030BC		
470 nF -		0.30±0.05	±20%	C0603JB1A474M030BC	04005 ID0 14744050D7		
., 0 111	1005	0.50±0.05	±10%	C1005JB1A474K050BC	C1005JB0J474K050BB		
			±20%	C1005JB1A474M050BC	C1005JB0J474M050BB		

 $<sup>\</sup>blacksquare$  The gray items are non-recommended products in the new design.

<sup>■</sup> The red items are products of the production will be stopped. Please confirm the schedule on product details information.



# **Capacitance Range Table**

### Class 2 (Temperature Stable)

Temperature Characteristics: JB(-25 to +85  $^{\circ}\text{C}\,,\,\pm10\%)$ 

Capacitance	Size	Thickness	Capacitance _	Catalog Number		
араспапсе	Size	(mm)	Tolerance	Rated Voltage Edc: 10V	Rated Voltage Edc: 6.3V	Rated Voltage Edc: 4V
	1005	0.50±0.05	±10%	C1005JB1A684K050BC	C1005JB0J684K050BB	
680 nF -		0.0020.00	±20%	C1005JB1A684M050BC	C1005JB0J684M050BB	
	1608	0.80+0.15/-0.10	±10%	C1608JB1A684K080AC		
		0.00 0.10/ 0.10	±20%	C1608JB1A684M080AC		
	1005	0.50±0.05	±10%	C1005JB1A105K050BB	C1005JB0J105K050BB	
1μF -	1000	0.0020.00	±20%	C1005JB1A105M050BB	C1005JB0J105M050BB	
. μ.	1608	0.80+0.15/-0.10	±10%	C1608JB1A105K080AC		
	1000	0.00 - 0.10/ 0.10	±20%	C1608JB1A105M080AC		
	1005	0.50±0.05	±10%	C1005JB1A155K050BC	C1005JB0J155K050BB	
1.5 µF -	1000	0.0020.00	±20%	C1005JB1A155M050BC	C1005JB0J155M050BB	
o p.	1608	0.80±0.10	±10%	C1608JB1A155K080AC	C1608JB0J155K080AB	
	1000	0.0020.10	±20%	C1608JB1A155M080AC	C1608JB0J155M080AB	
	1005	0.50±0.05	±10%	C1005JB1A225K050BC	C1005JB0J225K050BC	C1005JB0G225K050BE
_	1000	0.0020.00	±20%	C1005JB1A225M050BC	C1005JB0J225M050BC	C1005JB0G225M050BE
2.2 µF	1608	0.80±0.10	±10%	C1608JB1A225K080AC	C1608JB0J225K080AB	
Ζ.Ζ μι	1000	0.0020.70	±20%	C1608JB1A225M080AC	C1608JB0J225M080AB	
	2012	0.85±0.15	±10%	C2012JB1A225K085AA		
	2012	0.0010.10	±20%	C2012JB1A225M085AA		
	1005	0.50±0.10	±10%	C1005JB1A335K050BC	C1005JB0J335K050BC	C1005JB0G335K050BB
	1000	0.50±0.10	±20%	C1005JB1A335M050BC	C1005JB0J335M050BC	C1005JB0G335M050BE
_		0.0010.15 0.10	±10%		C1608JB0J335K080AB	
22	4000	0.80+0.15, -0.10	±20%		C1608JB0J335M080AB	
3.3 µF	1608	0.00+0.40	±10%	C1608JB1A335K080AB		
		0.80±0.10	±20%	C1608JB1A335M080AB		
_	2012	4.05.0.00	±10%	C2012JB1A335K125AA		
	2012	1.25±0.20	±20%	C2012JB1A335M125AA		
	1005	0.50:0.45/0.40	±10%	C1005JB1A475K050BC	C1005JB0J475K050BC	C1005JB0G475K050BE
	1005	0.50+0.15/-0.10	±20%	C1005JB1A475M050BC	C1005JB0J475M050BC	C1005JB0G475M050BE
-			+10%		C1608JB0J475K080AB	
	1608	0.80+0.15, -0.10	±20%		C1608JB0J475M080AB	
			±10%	C1608JB1A475K080AB		
		0.80±0.10	±20%	C1608JB1A475M080AB		
4.7 µF -			±10%	C2012JB1A475K060AB		
		0.60±0.15	±20%	C2012JB1A475M060AB		
		-	±10%		C2012JB0J475K085AB	
	2012	0.85±0.15	±20%		C2012JB0J475M085AB	
			±10%	C2012JB1A475K125AA	020120200110111000112	
		1.25±0.20	±20%	C2012JB1A475M125AA		
			±10%	C1608JB1A685K080AC	C1608JB0J685K080AB	
	1608	0.80±0.10	±20%	C1608JB1A685M080AC	C1608JB0J685M080AB	
=			±10%	C2012JB1A685K060AC	CTOOODEGGGGGGGGAB	
		0.60±0.15	±20%	C2012JB1A685M060AC		
6.8 µF			±10%	C2012JB1A685K085AC	C2012JB0J685K085AB	
	2012	0.85±0.15	±20%	C2012JB1A685M085AC	C2012JB0J685M085AB	
			±10%	C2012JB1A685K125AC	C2012JB0J685K125AB	
		1.25±0.20				
			±20%	C2012JB1A685M125AC	C2012JB0J685M125AB	
	1608	0.80±0.10	±10%	C1608JB1A106K080AC	C1608JB0J106K080AB	
=			±20%	C1608JB1A106M080AC	C1608JB0J106M080AB	
		0.85±0.15	±10%	C2012JB1A106K085AC	C2012JB0J106K085AB	
10 μF _	2012	-	±20%	C2012JB1A106M085AC	C2012JB0J106M085AB	
		1.25±0.20	±10%	C2012JB1A106K125AC	C2012JB0J106K125AB	
			±20%	C2012JB1A106M125AC	C2012JB0J106M125AB	
	3216	1.60±0.20	±10%	C3216JB1A106K160AA		
			±20%	C3216JB1A106M160AA		
-	1608	0.80+0.20, -0.10	±20%	C1608JB1A156M080AC	C1608JB0J156M080AC	C1608JB0G156M080AA
	2012	0.85±0.15	±20%	C2012JB1A156M085AC	C2012JB0J156M085AB	
15 μF		1.25±0.20	±20%	C2012JB1A156M125AB	C2012JB0J156M125AC	
	3216	1.60±0.20	±20%	C3216JB1A156M160AC		
	3225	2.30±0.20	±20%	C3225JB1A156M230AA		

<sup>■</sup> The red items are products of the production will be stopped. Please confirm the schedule on product details information.



# **Capacitance Range Table**

#### Class 2 (Temperature Stable)

Temperature Characteristics: JB(-25 to +85°C, ±10%)

Capacitance	Size	Thickness	Capacitance	Catalog Number		
Сараспансе	Size	(mm)	Tolerance	Rated Voltage Edc: 10V	Rated Voltage Edc: 6.3V	Rated Voltage Edc: 4V
	1608	0.80+0.20, -0.10	±20%	C1608JB1A226M080AC	C1608JB0J226M080AC	C1608JB0G226M080AA
	2012	0.85±0.15	±20%	C2012JB1A226M085AC	C2012JB0J226M085AB	
22 µF	2012	1.25±0.20	±20%	C2012JB1A226M125AB	C2012JB0J226M125AC	
_	3216	1.60±0.20	±20%	C3216JB1A226M160AC		
_	3225	2.50±0.30	±20%	C3225JB1A226M250AA		
	2012	1.25±0.20	±20%	C2012JB1A336M125AC	C2012JB0J336M125AC	
33 μF	3216	1.30±0.20	±20%		C3216JB0J336M130AC	
		1.60±0.20	±20%	C3216JB1A336M160AB		
47 µF -	2012	1.25±0.20	±20%	C2012JB1A476M125AC	C2012JB0J476M125AC	
4/ µr =	3216	1.60±0.20	±20%	C3216JB1A476M160AB	C3216JB0J476M160AC	
60	3216	1.60+0.30/-0.10	±20%	C3216JB1A686M160AC	C3216JB0J686M160AB	
68 µF -	3225	2.00±0.20	±20%		C3225JB0J686M200AC	
100 μF -	3216	1.60+0.30/-0.10	±20%	C3216JB1A107M160AC	C3216JB0J107M160AB	
100 με	3225	2.50±0.30	±20%		C3225JB0J107M250AC	·

### Class 2 (Temperature Stable)

0	01	Thickness	Capacitance	Catalog Number		
Capacitance	Size	(mm)	Tolerance	Rated Voltage Edc: 50V	Rated Voltage Edc: 25V	Rated Voltage Edc: 16V
	0402	0.20±0.02	±10%			C0402X5R1C101K020BC
100 pF —	0402	0.20±0.02	±20%			C0402X5R1C101M020BC
100 pr	0603	0.30±0.03	±10%		C0603X5R1E101K030BA	
	0003	0.30±0.03	±20%		C0603X5R1E101M030BA	
	0402	0.20±0.02	±10%			C0402X5R1C151K020BC
150 pF —	0402	0.2010.02	±20%			C0402X5R1C151M020BC
150 pi	0603	0.30±0.03	±10%		C0603X5R1E151K030BA	
	0000	0.0010.00	±20%		C0603X5R1E151M030BA	
	0402	0.20±0.02	±10%			C0402X5R1C221K020BC
_	0402	0.2010.02	±20%			C0402X5R1C221M020BC
220 pF	0603	0.30±0.03	±10%		C0603X5R1E221K030BA	
220 pF	0000	0.0010.00	±20%		C0603X5R1E221M030BA	
	1005	0.50±0.05	±10%	C1005X5R1H221K050BA		
	1000	0.0010.00	±20%	C1005X5R1H221M050BA		
	0402	0.20±0.02	±10%			C0402X5R1C331K020BC
_	0402	0.2010.02	±20%			C0402X5R1C331M020BC
330 pF	0603	0.30±0.03	±10%		C0603X5R1E331K030BA	
330 pi	0003	0.3010.03	±20%		C0603X5R1E331M030BA	
	1005	0.50±0.05	±10%	C1005X5R1H331K050BA		
		0.3010.03	±20%	C1005X5R1H331M050BA		
	0402	0.20±0.02	±10%			C0402X5R1C471K020BC
_			±20%			C0402X5R1C471M020BC
470 pF	0603	0.30±0.03	±10%		C0603X5R1E471K030BA	
470 pr			±20%		C0603X5R1E471M030BA	
	1005	0.50±0.05	±10%	C1005X5R1H471K050BA		
	1005	0.50±0.05	±20%	C1005X5R1H471M050BA		
	0402	0.20±0.02	±10%			C0402X5R1C681K020BC
_	0402	0.20±0.02	±20%			C0402X5R1C681M020BC
680 pF	0603	0.30±0.03	±10%		C0603X5R1E681K030BA	
600 pr	0003	0.30±0.03	±20%		C0603X5R1E681M030BA	
	1005	0.50±0.05	±10%	C1005X5R1H681K050BA		
	1005	0.50±0.05	±20%	C1005X5R1H681M050BA		
1 nF —	0603	0.30±0.03	±10%		C0603X5R1E102K030BA	
	0003	U.30±U.U3	±20%		C0603X5R1E102M030BA	
	1005	0.50±0.05	±10%	C1005X5R1H102K050BA		
	1005	0.50±0.05	±20%	C1005X5R1H102M050BA		
	0603	0.30±0.03	±10%		C0603X5R1E152K030BA	
1 5 5 5	0003	U.SUIU.U3	±20%		C0603X5R1E152M030BA	
1.5 nF —	1005	0.5010.05	±10%	C1005X5R1H152K050BA		
		0.50±0.05	±20%	C1005X5R1H152M050BA		

<sup>■</sup> The gray items are non-recommended products in the new design.

<sup>■</sup> The red items are products of the production will be stopped. Please confirm the schedule on product details information.



# **Capacitance Range Table**

### Class 2 (Temperature Stable)

Capacitance	Size	Thickness	Capacitance	Catalog Number	D-4-11/-H- 51 051	D-4-41/-H- 51 05/	D-4-1761 E1 (**)
•		(mm)	Tolerance	Rated Voltage Edc: 50V	Rated Voltage Edc: 35V	Rated Voltage Edc: 25V	Rated Voltage Edc: 16V
	0603	0.30±0.03	±10%			C0603X5R1E222K030BA	
2.2 nF -			±20%	0.40057/50.4110001/0500.4		C0603X5R1E222M030BA	
	1005	0.50±0.05	±10%	C1005X5R1H222K050BA			
			±20%	C1005X5R1H222M050BA		00000VFD4F000V000D4	
	0603	0.30±0.03	±10%			C0603X5R1E332K030BA	
3.3 nF —			±20%	040057504110001705004		C0603X5R1E332M030BA	
	1005	0.50±0.05	±10%	C1005X5R1H332K050BA			
			±20%	C1005X5R1H332M050BA			C0603X5R1C472K030BA
	0603	$0.30\pm0.03$	±10% ±20%				
4.7 nF —			±10%	C1005X5R1H472K050BA			C0603X5R1C472M030B/
	1005	$0.50 \pm 0.05$	±10%				
				C1005X5R1H472M050BA C1005X5R1H682K050BA			
6.8 nF	1005	$0.50 \pm 0.05$	±10% ±20%				
			±10%	C1005X5R1H682M050BA			C0603X5R1C103K030B
	0603	$0.30 \pm 0.03$	±20%				C0603X5R1C103K030B
_			±10%	C1005X5R1H103K050BB		C1005X5R1E103K050BA	C0003X3IXTCT03IVI030D
10 nF	1005	$0.50 \pm 0.05$	±20%	C1005X5R1H103M050BB		C1005X5R1E103M050BA	
_			±10%	C1608X5R1H103K080AA		O TOUGHOUTE TOURISTORY	
	1608	0.80±0.10	±20%	C1608X5R1H103M080AA			
			±10%	C1005X5R1H153K050BB		C1005X5R1E153K050BA	C1005X5R1C153K050B
	1005	0.50±0.05	±20%	C1005X5R1H153M050BB		C1005X5R1E153M050BA	C1005X5R1C153M050B
15 nF —			±10%	C1608X5R1H153K080AA		O TOUS ASTRICT TO SINIOS OBA	01003/01/101030100001
	1608	0.80±0.10	±20%	C1608X5R1H153M080AA			
			±10%	01000X31X111133W000XX		C0603X5R1E223K030BB	
	0603	$0.30\pm0.03$	±20%			C0603X5R1E223M030BB	
_			±10%	C1005X5R1H223K050BB		C1005X5R1E223K050BA	C1005X5R1C223K050B
22 nF	1005	$0.50 \pm 0.05$	±20%	C1005X5R1H223M050BB		C1005X5R1E223M050BA	C1005X5R1C223R050B
_			±10%	C1608X5R1H223K080AA		CTOOSASINTEZZSIVIOSOBA	C 1003/C31(10223101030D)
	1608	0.80±0.10	±20%	C1608X5R1H223M080AA			
			±10%	C1005X5R1H333K050BB		C1005X5R1E333K050BA	C1005X5R1C333K050B/
	1005	$0.50 \pm 0.05$	±20%	C1005X5R1H333M050BB		C1005X5R1E333M050BA	C1005X5R1C333M050B
33 nF —			±10%	C1608X5R1H333K080AA		CTOOSASKTESSSIVIOSOBA	C 1003A3R 1C333IVI030B
	1608	0.80±0.10	±20%	C1608X5R1H333M080AA			
			±10%	C 1000X31(11133310000AA		C0603X5R1E473K030BB	
	0603	$0.30\pm0.03$	±20%			C0603X5R1E473M030BB	
_			±10%	C1005X5R1H473K050BB		C1005X5R1E473K050BA	C1005X5R1C473K050B/
47 nF	1005	$0.50 \pm 0.05$	±20%	C1005X5R1H473M050BB		C1005X5R1E473M050BA	C1005X5R1C473M050B
_			±10%	C1608X5R1H473K080AA		O TOUS ASTRICT AT SWIDSOBA	01003/01(104/3000000
	1608	0.80±0.10	±20%	C1608X5R1H473M080AA			
			±10%	C1005X5R1H683K050BB	C1005X5R1V683K050BB	C1005X5R1E683K050BC	C1005X5R1C683K050B/
	1005	$0.50 \pm 0.05$	±20%	C1005X5R1H683M050BB	C1005X5R1V683M050BB	C1005X5R1E683M050BC	C1005X5R1C683M050B
68 nF —			±10%	C1608X5R1H683K080AA	O TOOOXSITT VOOSINIOSOBB	O 1003X31C1E003INIO30BO	01003/(31/1000031/1000031/1000031/1000031/1000031/1000031/100000000
	1608	0.80±0.10	±20%	C1608X5R1H683M080AA			
			±10%			C0603X5R1E104K030BB	C0603X5R1C104K030B0
	0603	0.30±0.03	±20%			C0603X5R1E104M030BB	C0603X5R1C104M030B0
_			±10%	C1005X5R1H104K050BB	C1005X5R1V104K050BB	C1005X5R1E104K050BC	C1005X5R1C104K050BA
	1005	0.50±0.05	±20%	C1005X5R1H104M050BB	C1005X5R1V104M050BB	C1005X5R1E104M050BC	C1005X5R1C104R050B/
100 nF —			±10%	C1608X5R1H104K080AA	O TOOO TOTAL TOTAL OOD D	2 1000/01/12 10 TW000000	5 1000/tol (10 1041010000)
	1608	0.80±0.10	±20%	C1608X5R1H104M080AA			
_			±10%	C2012X5R1H104K085AA			
	2012	0.85±0.15	±20%	C2012X5R1H104K085AA			
			±10%	02012/31(111104W0007/A			C0603X5R1C154K030B
		0.30±0.03	±10%				C0603X5R1C154K030B
	0603		±20% ±10%			C0603X5B1E1E4K030BC	00000X3IX IO 134IVIU3UB
		0.30±0.05	±10%			C0603X5R1E154K030BC C0603X5R1E154M030BC	
						C1005X5R1E154W050BC	C1005Y5D1C154K050D
	1005	0.50±0.05	±10%			C1005X5R1E154K050BC	C1005X5R1C154K050BI C1005X5R1C154M050BI
_			±20%	C1600VED11454V000AD	C1600VED4V4E4V000AB		0 1000A0K 10 104W050B
	1608	0.80±0.10	±10%	C1608X5R1H154K080AB	C1608X5R1V154K080AB	C1608X5R1E154K080AA	
			±20%	C1608X5R1H154M080AB	C1608X5R1V154M080AB	C1608X5R1E154M080AA	
	2012	0.85±0.15	±10%	C2012X5R1H154K085AA			
			±20%	C2012X5R1H154M085AA			

<sup>■</sup> The gray items are non-recommended products in the new design.

hease be sure to request delivery specifications that provide further details on the features and specifications of the products for proper and safe use. Please note that the contents may change without any prior notice due to reasons such as upgrading.



# **Capacitance Range Table**

### Class 2 (Temperature Stable)

Capacitance	Size	Thickness (mm)	Capacitance Tolerance	Catalog Number Rated Voltage Edc: 50V	Rated Voltage Edc: 35V	Rated Voltage Edc: 25V	Rated Voltage Edc: 16V				
		, ,	±10%	g- ===	g- ===-	·g	C0603X5R1C224K030B0				
	0000	0.30±0.03 -	±20%				C0603X5R1C224M030B0				
	0603	0.2010.05	±10%			C0603X5R1E224K030BC					
		0.30±0.05	±20%			C0603X5R1E224M030BC					
220 nF	1005	0.5010.05	±10%			C1005X5R1E224K050BC	C1005X5R1C224K050B				
220 HF	1005	0.50±0.05	±20%			C1005X5R1E224M050BC	C1005X5R1C224M050B				
	1608	0.80±0.10 -	±10%	C1608X5R1H224K080AB	C1608X5R1V224K080AB	C1608X5R1E224K080AA					
_	1000	0.0010.10	±20%	C1608X5R1H224M080AB	C1608X5R1V224M080AB	C1608X5R1E224M080AA					
	2012	1.25±0.20 -	±10%	C2012X5R1H224K125AA							
		1.2020.20	±20%	C2012X5R1H224M125AA							
	1005	0.50±0.05	±10%		C1005X5R1V334K050BC	C1005X5R1E334K050BB	C1005X5R1C334K050B				
=			±20%		C1005X5R1V334M050BC	C1005X5R1E334M050BB	C1005X5R1C334M050B				
330 nF 16	1608	0.80±0.10	±10%	C1608X5R1H334K080AB	C1608X5R1V334K080AB	C1608X5R1E334K080AC	C1608X5R1C334K080A				
-			±20%	C1608X5R1H334M080AB	C1608X5R1V334M080AB	C1608X5R1E334M080AC	C1608X5R1C334M080A				
	2012	1.25±0.20	±10%	C2012X5R1H334K125AA							
			±20%	C2012X5R1H334M125AA	04005750474474705000	0400576545424705055	040057504042470500				
	1005	0.50±0.05	±10% ±20%		C1005X5R1V474K050BC	C1005X5R1E474K050BB	C1005X5R1C474K050B				
-			±10%	C1608X5R1H474K080AB	C1005X5R1V474M050BC C1608X5R1V474K080AB	C1005X5R1E474M050BB C1608X5R1E474K080AC	C1005X5R1C474M050B C1608X5R1C474K080A				
470 nF	1608	0.80±0.10	±10%	C1608X5R1H474K080AB	C1608X5R1V474R080AB	C1608X5R1E474M080AC	C1608X5R1C474K080A				
-			±10%	C2012X5R1H474K125AB	C1000A3IX1V474IVI000AB	C TOOOXSIX TE474IVIOOOAC	C1000X31X1C4741V1000P				
	2012	1.25±0.20	±20%	C2012X5R1H474R125AB							
			±10%	02012X0X111474W120XD	C1005X5R1V684K050BC	C1005X5R1E684K050BC	C1005X5R1C684K050B				
	1005	0.50±0.05	±20%		C1005X5R1V684M050BC	C1005X5R1E684M050BC	C1005X5R1C684M050B				
=			±10%	C1608X5R1H684K080AB	C1608X5R1V684K080AB	C1608X5R1E684K080AC	C1608X5R1C684K080A				
680 nF	1608	0.80±0.10 -	±20%	C1608X5R1H684M080AB	C1608X5R1V684M080AB	C1608X5R1E684M080AC	C1608X5R1C684M080A				
-			±10%	C2012X5R1H684K125AB		C2012X5R1E684K125AA					
	2012	1.25±0.20	±20%	C2012X5R1H684M125AB		C2012X5R1E684M125AA					
	4005	0.50.0.05	±10%		C1005X5R1V105K050BC	C1005X5R1E105K050BC	C1005X5R1C105K050B				
	1005	0.50±0.05 -	±20%		C1005X5R1V105M050BC	C1005X5R1E105M050BC	C1005X5R1C105M050B				
-	4000	0.00.0.40	±10%	C1608X5R1H105K080AB	C1608X5R1V105K080AB	C1608X5R1E105K080AC	C1608X5R1C105K080A				
	1608	0.80±0.10 -	±20%	C1608X5R1H105M080AB	C1608X5R1V105M080AB	C1608X5R1E105M080AC	C1608X5R1C105M080A				
4		0.05+0.45	±10%	C2012X5R1H105K085AB	C2012X5R1V105K085AB	C2012X5R1E105K085AC	C2012X5R1C105K085A				
1 μF	2012	0.85±0.15	±20%	C2012X5R1H105M085AB	C2012X5R1V105M085AB	C2012X5R1E105M085AC	C2012X5R1C105M085A				
	2012	1.25±0.20	±10%	C2012X5R1H105K125AB		C2012X5R1E105K125AA					
_		1.2310.20	±20%	C2012X5R1H105M125AB		C2012X5R1E105M125AA					
	3216	1.60±0.20 -	±10%	C3216X5R1H105K160AA							
	0210	1.0010.20	±20%	C3216X5R1H105M160AA							
		0.50+0.15/-0.10 -	±10%		C1005X5R1V155K050BC						
			±20%		C1005X5R1V155M050BC						
	1005	0.50±0.05	±10%				C1005X5R1C155K050B				
			1000				±20%				C1005X5R1C155M050B
		0.50±0.10	±10%			C1005X5R1E155K050BC					
=			±20%		C4600VED4)/4EEV000AC	C1005X5R1E155M050BC	C1600VED1C1EEK000A				
1.5 µF	1608	0.80±0.10	±10%		C1608X5R1V155K080AC	C1608X5R1E155K080AB	C1608X5R1C155K080A				
-			±20%		C1608X5R1V155M080AC	C1608X5R1E155M080AB	C1608X5R1C155M080A				
		0.85±0.15 -	±10% ±20%			C2012X5R1E155K085AC C2012X5R1E155M085AC					
	2012	-	±10%	C2012X5R1H155K125AB	C2012X5R1V155K125AB	C2012X5R1E155M065AC	C2012X5R1C155K125A				
		1.25±0.20	±10%	C2012X5R1H155M125AB	C2012X5R1V155K125AB	C2012X5R1E155M125AA	C2012X5R1C155M125A				
-			±10%	C3216X5R1H155K160AB	SECTEMBRICAN TOOM TECHNO	C3216X5R1E155K160AA	525 12/10/11 0 100/W120P				
	3216	1.60±0.20	±20%	C3216X5R1H155M160AB		C3216X5R1E155M160AA					
			±10%		C1005X5R1V225K050BC						
		0.50+0.15/-0.10 -	±20%		C1005X5R1V225M050BC						
			±10%			C1005X5R1E225K050BC					
	1005	0.50±0.10 -	±20%			C1005X5R1E225M050BC					
		0.50:0.05	±10%				C1005X5R1C225K050E				
		0.50±0.05 -	±20%				C1005X5R1C225M050E				
2.2 μF –	1000	0.00:0.40	±10%		C1608X5R1V225K080AC	C1608X5R1E225K080AB	C1608X5R1C225K080A				
	1608	0.80±0.10 -	±20%		C1608X5R1V225M080AC	C1608X5R1E225M080AB	C1608X5R1C225M080A				
=		0.05:0.45	±10%	C2012X5R1H225K085AB	C2012X5R1V225K085AB	C2012X5R1E225K085AC	C2012X5R1C225K085A				
	2042	0.85±0.15	±20%	C2012X5R1H225M085AB	C2012X5R1V225M085AB	C2012X5R1E225M085AC	C2012X5R1C225M085A				
	2012	1 25 1 0 20	±10%	C2012X5R1H225K125AB	C2012X5R1V225K125AB	C2012X5R1E225K125AC	C2012X5R1C225K125A				
		1.25±0.20 -	±20%	C2012X5R1H225M125AB	C2012X5R1V225M125AB	C2012X5R1E225M125AC	C2012X5R1C225M125A				

<sup>■</sup> The red items are products of the production will be stopped. Please confirm the schedule on product details information.

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# **Capacitance Range Table**

### Class 2 (Temperature Stable)

Canacitanas	Ciro	Thickness	Capacitance	Catalog Number			
Capacitance	Size	(mm)	Tolerance	Rated Voltage Edc: 50V	Rated Voltage Edc: 35V	Rated Voltage Edc: 25V	Rated Voltage Edc: 16V
	3216	1.60±0.20	±10%	C3216X5R1H225K160AB		C3216X5R1E225K160AA	
2.2 µF -	3210	1.0010.20	±20%	C3216X5R1H225M160AB		C3216X5R1E225M160AA	
2.2 μι	3225	2.50±0.30	±10%	C3225X5R1H225K250AB			
	3223	2.3010.30	±20%	C3225X5R1H225M250AB			
		0.80±0.10	±10%			C1608X5R1E335K080AC	C1608X5R1C335K080AC
	1608	0.0010.10	±20%			C1608X5R1E335M080AC	C1608X5R1C335M080AC
	1000	0.80+0.20, -0.10	±10%		C1608X5R1V335K080AC		
=		0.00 - 0.20, -0.10	±20%		C1608X5R1V335M080AC		
		0.60±0.15	±10%				C2012X5R1C335K060AC
		0.0020.10	±20%				C2012X5R1C335M060AC
3.3 µF	2012	0.85±0.15	±10%			C2012X5R1E335K085AC	C2012X5R1C335K085AB
σ.σ μ.	20.2		±20%			C2012X5R1E335M085AC	C2012X5R1C335M085AB
		1.25±0.20	±10%	C2012X5R1H335K125AB	C2012X5R1V335K125AC	C2012X5R1E335K125AB	C2012X5R1C335K125AC
=			±20%	C2012X5R1H335M125AB	C2012X5R1V335M125AC	C2012X5R1E335M125AB	C2012X5R1C335M125AC
	3216	1.60±0.20	±10%	C3216X5R1H335K160AB	C3216X5R1V335K160AB	C3216X5R1E335K160AA	
=			±20%	C3216X5R1H335M160AB	C3216X5R1V335M160AB	C3216X5R1E335M160AA	
	3225	2.50±0.30	±10%	C3225X5R1H335K250AB			
-			±20%	C3225X5R1H335M250AB			
		0.80±0.10	±10%			C1608X5R1E475K080AC	C1608X5R1C475K080AC
	1608		±20%			C1608X5R1E475M080AC	C1608X5R1C475M080AC
		0.80+0.20, -0.10	±10%		C1608X5R1V475K080AC		
-			±20%		C1608X5R1V475M080AC		
		0.60±0.15	±10%				C2012X5R1C475K060AC
		-	±20%				C2012X5R1C475M060AC
	2012	0.85±0.15	±10%			C2012X5R1E475K085AC	C2012X5R1C475K085AB
			±20%	00040VED411475V405AD	00040V5D4V475V40540	C2012X5R1E475M085AC	C2012X5R1C475M085AB
4.7 µF		1.25±0.20	±10%	C2012X5R1H475K125AB	C2012X5R1V475K125AC	C2012X5R1E475K125AB	C2012X5R1C475K125AC
=			±20%	C2012X5R1H475M125AB	C2012X5R1V475M125AC	C2012X5R1E475M125AB	C2012X5R1C475M125AC
		0.85±0.15	±10% ±20%	C3216X5R1H475K085AB C3216X5R1H475M085AB	C3216X5R1V475K085AB C3216X5R1V475M085AB	C3216X5R1E475K085AB C3216X5R1E475M085AB	
		-	±20%	C3210X31X111473101003AB	C32 TOX31CTV47 SWIOOSAB	C3216X5R1E475K115AB	C3216X5R1C475K115AA
	3216	1.15±0.15	±20%			C3216X5R1E475M115AB	C3216X5R1C475M115AA
		-	±10%	C3216X5R1H475K160AB	C3216X5R1V475K160AB	C3216X5R1E475K160AA	C3210X31(10473)VI113AA
		1.60±0.20	±20%	C3216X5R1H475M160AB	C3216X5R1V475M160AB	C3216X5R1E475M160AA	
=			±10%	C3225X5R1H475K250AB	C32 TOXOTT V 47 SWITOOAD	03210X31(1E473W100AA	
	3225	2.50±0.30	±20%	C3225X5R1H475M250AB			
			±10%	GGZZGXGXTTT-7 GWZGGXB		C1608X5R1E685K080AC	C1608X5R1C685K080AB
	1608	0.80+0.20, -0.10	±20%			C1608X5R1E685M080AC	C1608X5R1C685M080AB
-			±10%			5 ( 5 5 5 7 6 1 1 1 2 5 5 6 1 1 5 5 7 1 5	C2012X5R1C685K085AC
		0.85±0.15	±20%				C2012X5R1C685M085AC
	2012	-	±10%		C2012X5R1V685K125AC	C2012X5R1E685K125AC	C2012X5R1C685K125AC
		1.25±0.20	±20%		C2012X5R1V685M125AC	C2012X5R1E685M125AC	C2012X5R1C685M125AC
-	06:-	4.00	±10%	C3216X5R1H685K160AB	C3216X5R1V685K160AB	C3216X5R1E685K160AB	C3216X5R1C685K160AA
6.8 µF	3216	1.60±0.20	±20%	C3216X5R1H685M160AB	C3216X5R1V685M160AB	C3216X5R1E685M160AB	C3216X5R1C685M160AA
-		0.00.000	±10%				C3225X5R1C685K200AA
		2.00±0.20	±20%				C3225X5R1C685M200AA
	3225	0.50.000	±10%	C3225X5R1H685K250AB		C3225X5R1E685K250AA	
		2.50±0.30	±20%	C3225X5R1H685M250AB		C3225X5R1E685M250AA	
-	4500	2 50 10 20	±10%	C4532X5R1H685K250KA			
	4532	2.50±0.30	±20%	C4532X5R1H685M250KA			
	1608	0.80+0.20, -0.10	±20%			C1608X5R1E106M080AC	C1608X5R1C106M080AB
=		0.0510.15	±10%		C2012X5R1V106K085AC	C2012X5R1E106K085AC	C2012X5R1C106K085AC
	2012	0.85±0.15	±20%		C2012X5R1V106M085AC	C2012X5R1E106M085AC	C2012X5R1C106M085AC
	2012	1.25±0.20	±10%		C2012X5R1V106K125AC	C2012X5R1E106K125AB	C2012X5R1C106K125AC
10 μF		1.2J±U.2U	±20%		C2012X5R1V106M125AC	C2012X5R1E106M125AB	C2012X5R1C106M125AC
_	_	0.85±0.15	±10%			C3216X5R1E106K085AC	C3216X5R1C106K085AC
	3216	0.0010.10	±20%			C3216X5R1E106M085AC	C3216X5R1C106M085AC
	-2.0	1.60±0.20	±10%	C3216X5R1H106K160AB	C3216X5R1V106K160AB	C3216X5R1E106K160AB	C3216X5R1C106K160AA
			±20%	C3216X5R1H106M160AB	C3216X5R1V106M160AB	C3216X5R1E106M160AB	C3216X5R1C106M160AA

<sup>■</sup> The red items are products of the production will be stopped. Please confirm the schedule on product details information.



# **Capacitance Range Table**

#### Class 2 (Temperature Stable)

Temperature Characteristics: X5R(-55 to +85°C, ±15%)

10 μF	Canacitanas	Size	Thickness	Capacitance	Catalog Number			
10 μF   2.00±0.20	Capacitance	Size	(mm)	Tolerance	Rated Voltage Edc: 50V	Rated Voltage Edc: 35V	Rated Voltage Edc: 25V	Rated Voltage Edc: 16V
10 μF			2 00+0 20	±10%				C3225X5R1C106K200AA
10 μF  - 10		2225	2.00±0.20	±20%				C3225X5R1C106M200AA
10 μF		3223	2 50 10 20	±10%	C3225X5R1H106K250AB		C3225X5R1E106K250AA	
4532   2.50±0.30   ±10%   £20%   £	10 uE _		2.50±0.50	±20%	C3225X5R1H106M250AB		C3225X5R1E106M250AA	
120%   120%	το μι	4532	2.50±0.30				C4532X5R1E106K250KA	
\$750   \$2.00±0.20   \$\frac{		4002					C4532X5R1E106M250KA	
\$\frac{\f		5750	2 30+0 20	±10%	C5750X5R1H106K230KA			
3216   1.60±0.20   ±20%   C3216X5R1V156M160AC   C3216X5R1E156M160AB   C3216X5R1C15   3225   2.50±0.30   ±20%   C4532X5R1E156M250KA     4532   2.50±0.30   ±20%   C4532X5R1E156M250KA     2.60±0.30   ±20%   C4532X5R1E156M280KA     2.60±0.30   ±20%   C2012X5R1C22     2.60±0.30   ±20%   C2012X5R1V226M125AC   C2012X5R1E226M125AC   C2012X5R1C22     3216   1.60±0.20   ±20%   C3216X5R1V226M160AC   C3216X5R1E226M160AB   C3216X5R1C22     2.50±0.30   ±10%   C3225X5R1C22     4532   2.50±0.30   ±20%   C4532X5R1E226M250KA     4532   2.30±0.20   ±20%   C4532X5R1C22     4532   2.30±0.20   ±20%   C4532X5R1C22     4532   2.30±0.20   ±20%   C4532X5R1E226M250KA     5750   2.30±0.20   ±20%   C3216X5R1E226M250KA     5750   2.50±0.30   ±20%   C3216X5R1E36M160AC   C3216X5R1E36M160AC     5750   2.00±0.20   ±20%   C3216X5R1C33     5750   2.00±0.20   ±20%   C3216X5R1C47     5750   2.00±0.20   ±20%		0100		±20%	C5750X5R1H106M230KA			
		2012	1.25±0.20	±20%		C2012X5R1V156M125AC	C2012X5R1E156M125AC	C2012X5R1C156M125AC
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		3216	1.60±0.20	±20%		C3216X5R1V156M160AC	C3216X5R1E156M160AB	C3216X5R1C156M160AB
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	15 μF	3225	2.50±0.30	±20%				C3225X5R1C156M250AA
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		4532	2.50±0.30	±20%			C4532X5R1E156M250KA	
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$		4002	2.80±0.30	±20%			C4532X5R1E156M280KA	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$			0.85±0.15	±20%				C2012X5R1C226M085AC
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$		2012	1 25+0 20	±10%				C2012X5R1C226K125AC
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	_			±20%		C2012X5R1V226M125AC	C2012X5R1E226M125AC	C2012X5R1C226M125AC
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$		3216	1.60±0.20	±20%		C3216X5R1V226M160AC	C3216X5R1E226M160AB	C3216X5R1C226M160AB
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$		2225	25 25010.20	±10%				C3225X5R1C226K250AA
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	22 µF	3223	2.50±0.50	±20%				C3225X5R1C226M250AA
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$			2.00±0.20	±20%				C4532X5R1C226M200KA
$ \frac{2.30 \pm 0.20}{2.50 \pm 0.30} \pm \frac{\pm 20\%}{2.50 \pm 0.30}                                  $		4532	2.30±0.20	±20%				C4532X5R1C226M230KA
\$\frac{5750}{2.50\pm\cdot 0.30} \ \pm\cdot \p			2.50±0.30	±20%			C4532X5R1E226M250KA	
2.50±0.30 ±20% C5750X5R1E226M250KA  3216 1.60±0.20 ±20% C3216X5R1E336M160AC C3216X5R1C33  33 μF 4532 2.50±0.30 ±20% C4532X5R1C33  5750 2.00±0.20 ±20% C5750X5R1C33  47 μF 3216 1.60±0.20 ±20% C3216X5R1E476M160AC C3216X5R1C47		575O	2.30±0.20	±20%			C5750X5R1E226M230KA	
33 μF 4532 2.50±0.30 ±20% C4532X5R1C33 5750 2.00±0.20 ±20% C5750X5R1C33 47 μF 3216 1.60±0.20 ±20% C3216X5R1E476M160AC C3216X5R1C47		3730	2.50±0.30	±20%			C5750X5R1E226M250KA	
5750 2.00±0.20 ±20% C5750X5R1C33  47 UF 3216 1.60±0.20 ±20% C3216X5R1E476M160AC C3216X5R1C47		3216	1.60±0.20	±20%			C3216X5R1E336M160AC	C3216X5R1C336M160AB
47 uF 3216 1.60±0.20 ±20% C3216X5R1E476M160AC C3216X5R1C47	33 µF	4532	2.50±0.30	±20%				C4532X5R1C336M250KA
47 11-		5750	2.00±0.20	±20%				C5750X5R1C336M200KA
<sup>47</sup> μ <sup>Γ</sup> 5750 2 30±0 20 ±20%	47 uE -	3216	1.60±0.20	±20%			C3216X5R1E476M160AC	C3216X5R1C476M160AB
0100 2.0010.20 12070	+1 μΓ	5750	2.30±0.20	±20%				C5750X5R1C476M230KA

#### Class 2 (Temperature Stable)

Capacitance	Size	Thickness	Capacitance	Catalog Number		
Сараспапсе	SIZE	(mm)	Tolerance	Rated Voltage Edc: 10V	Rated Voltage Edc: 6.3V	Rated Voltage Edc: 4V
1 nF	0402	0.20±0.02	±10%	C0402X5R1A102K020BC	C0402X5R0J102K020BC	C0402X5R0G102K020BC
ITIF	0402	0.20±0.02	±20%	C0402X5R1A102M020BC	C0402X5R0J102M020BC	C0402X5R0G102M020BC
1.5 nF	0402	0.00+0.00	±10%	C0402X5R1A152K020BC	C0402X5R0J152K020BC	C0402X5R0G152K020BC
1.5 NF	0402	0.20±0.02	±20%	C0402X5R1A152M020BC	C0402X5R0J152M020BC	C0402X5R0G152M020BC
0.0	0.400	0.00.0.00	±10%	C0402X5R1A222K020BC	C0402X5R0J222K020BC	C0402X5R0G222K020BC
2.2 nF	0402	0.20±0.02	±20%	C0402X5R1A222M020BC	C0402X5R0J222M020BC	C0402X5R0G222M020BC
	0402	0.00.000	±10%	C0402X5R1A332K020BC	C0402X5R0J332K020BC	C0402X5R0G332K020BC
3.3 nF		0.20±0.02	±20%	C0402X5R1A332M020BC	C0402X5R0J332M020BC	C0402X5R0G332M020BC
	0.400	0.00.000	±10%	C0402X5R1A472K020BC	C0402X5R0J472K020BC	C0402X5R0G472K020BC
4.7 nF	0402	0.20±0.02	±20%	C0402X5R1A472M020BC	C0402X5R0J472M020BC	C0402X5R0G472M020BC
	0.400	0.00.000	±10%	C0402X5R1A682K020BC	C0402X5R0J682K020BC	C0402X5R0G682K020BC
0.0	0402	0.20±0.02	±20%	C0402X5R1A682M020BC	C0402X5R0J682M020BC	C0402X5R0G682M020BC
6.8 nF —	0603	0.00.000	±10%	C0603X5R1A682K030BA		
		0.30±0.03	±20%	C0603X5R1A682M030BA		
		0.00.000	±10%	C0402X5R1A103K020BC	C0402X5R0J103K020BC	C0402X5R0G103K020BC
40 . 5	0402	0.20±0.02	±20%	C0402X5R1A103M020BC	C0402X5R0J103M020BC	C0402X5R0G103M020BC
10 nF —	2222	0.00.000	±10%	C0603X5R1A103K030BA		
	0603	0.30±0.03	±20%	C0603X5R1A103M030BA		
45 5	0000	0.00.000	±10%	C0603X5R1A153K030BC	C0603X5R0J153K030BA	
15 nF	0603	0.30±0.03	±20%	C0603X5R1A153M030BC	C0603X5R0J153M030BA	
	0402	0.20±0.02	±20%		C0402X5R0J223M020BC	C0402X5R0G223M020BC
22 nF			±10%	C0603X5R1A223K030BC	C0603X5R0J223K030BC	
	0603	0.30±0.03	±20%	C0603X5R1A223M030BC	C0603X5R0J223M030BC	
			±10%	C0603X5R1A333K030BC	C0603X5R0J333K030BC	
33 nF	0603	0.30±0.03	±20%	C0603X5R1A333M030BC	C0603X5R0J333M030BC	

<sup>■</sup> The gray items are non-recommended products in the new design.

<sup>■</sup> The red items are products of the production will be stopped. Please confirm the schedule on product details information.



# **Capacitance Range Table**

#### Class 2 (Temperature Stable)

Capacitance	Size	Thickness (mm)	Capacitance Tolerance	Catalog Number Rated Voltage Edc: 10V	Rated Voltage Edc: 6.3V	Rated Voltage Edc: 4V
	0402	0.20±0.02	±20%	<u> </u>	C0402X5R0J473M020BC	C0402X5R0G473M020BC
_			±10%	C0603X5R1A473K030BC	C0603X5R0J473K030BC	
47 nF	0603	0.30±0.03	±20%	C0603X5R1A473M030BC	C0603X5R0J473M030BC	
_	4005	0.50.0.05	±10%	C1005X5R1A473K050BA		
	1005	0.50±0.05	±20%	C1005X5R1A473M050BA		
	0000	0.20+0.02	±10%	C0603X5R1A683K030BC	C0603X5R0J683K030BC	
00 . 5	0603	0.30±0.03	±20%	C0603X5R1A683M030BC	C0603X5R0J683M030BC	
68 nF -	1005	0.50+0.05	±10%	C1005X5R1A683K050BA		
	1005	0.50±0.05	±20%	C1005X5R1A683M050BA		
	0402	0.20±0.02	±20%		C0402X5R0J104M020BC	C0402X5R0G104M020B0
	0603	0.30±0.03	±10%	C0603X5R1A104K030BC	C0603X5R0J104K030BC	
100 nF	0003	0.30±0.03	±20%	C0603X5R1A104M030BC	C0603X5R0J104M030BC	
	1005	0.50±0.05	±10%	C1005X5R1A104K050BA	C1005X5R0J104K050BA	
	1005	0.50±0.05	±20%	C1005X5R1A104M050BA		
	0603	0.30+0.03	±10%	C0603X5R1A154K030BB	C0603X5R0J154K030BB	
150 pF	0003	0.30±0.03	±20%	C0603X5R1A154M030BB	C0603X5R0J154M030BB	
150 nF -	1005	0.50+0.05	±10%	C1005X5R1A154K050BC	C1005X5R0J154K050BB	
	1005	0.50±0.05	±20%	C1005X5R1A154M050BC	C1005X5R0J154M050BB	
	0402	0.20±0.03	±20%			C0402X5R0G224M020B0
_	0000	0.20+0.02	±10%	C0603X5R1A224K030BB	C0603X5R0J224K030BB	
220 nF	0603	0.30±0.03	±20%	C0603X5R1A224M030BB	C0603X5R0J224M030BB	
_	4005	0.50.0.05	±10%	C1005X5R1A224K050BC	C1005X5R0J224K050BB	
	1005	0.50±0.05	±20%	C1005X5R1A224M050BC	C1005X5R0J224M050BB	
		0.30±0.03	±20%		C0603X5R0J334M030BC	
	0603	0.20.0.05	±10%	C0603X5R1A334K030BC		
330 nF		0.30±0.05	±20%	C0603X5R1A334M030BC		
_	4005	0.50.0.05	±10%	C1005X5R1A334K050BB	C1005X5R0J334K050BB	
	1005	0.50±0.05	±20%	C1005X5R1A334M050BB	C1005X5R0J334M050BB	
		0.00.000	±10%		C0603X5R0J474K030BC	
	0603	0.30±0.03	±20%		C0603X5R0J474M030BC	
470 . 5		0.30±0.05	±20%	C0603X5R1A474M030BC		
470 nF -	4005	0.50.0.05	±10%	C1005X5R1A474K050BB	C1005X5R0J474K050BB	
	1005	0.50±0.05	±20%	C1005X5R1A474M050BB	C1005X5R0J474M050BB	
_	1608	0.80+0.15/-0.10	±10%	C1608X5R1A474K080AA		
	4005	0.50.0.05	±10%	C1005X5R1A684K050BB	C1005X5R0J684K050BB	
690 pF	1005	0.50±0.05	±20%	C1005X5R1A684M050BB	C1005X5R0J684M050BB	
680 nF -	4000	0.00+0.45/.0.40	±10%	C1608X5R1A684K080AC		
	1608	0.80+0.15/-0.10	±20%	C1608X5R1A684M080AC		
	0603	0.30±0.05	±20%		C0603X5R0J105M030BC	C0603X5R0G105M030B0
_	1005	0.50+0.05	±10%	C1005X5R1A105K050BB	C1005X5R0J105K050BB	
1 μF	1005	0.50±0.05	±20%	C1005X5R1A105M050BB	C1005X5R0J105M050BB	
_	4000	0.00+0.45/.0.40	±10%	C1608X5R1A105K080AC		
	1608	0.80+0.15/-0.10	±20%	C1608X5R1A105M080AC		
	4005	0.50.0.05	±10%	C1005X5R1A155K050BC	C1005X5R0J155K050BB	
4 5 5	1005	0.50±0.05	±20%	C1005X5R1A155M050BC	C1005X5R0J155M050BB	
1.5 µF -	4000	0.00.0.40	±10%	C1608X5R1A155K080AB	C1608X5R0J155K080AB	
	1608	0.80±0.10	±20%	C1608X5R1A155M080AB	C1608X5R0J155M080AB	
	0603	0.30±0.10	±20%		C0603X5R0J225M030BC	C0603X5R0G225M030BC
_	4005	0.50.0.05	±10%	C1005X5R1A225K050BC	C1005X5R0J225K050BC	C1005X5R0G225K050BE
	1005	0.50±0.05	±20%	C1005X5R1A225M050BC	C1005X5R0J225M050BC	C1005X5R0G225M050BE
2.2 μF	4000	0.00.0.40	±10%	C1608X5R1A225K080AC	C1608X5R0J225K080AB	
	1608	0.80±0.10	±20%	C1608X5R1A225M080AC	C1608X5R0J225M080AB	
_	2012	0.05:0.45	±10%	C2012X5R1A225K085AA	C2012X5R0J225K085AA	
	2012	0.85±0.15	±20%	C2012X5R1A225M085AA	C2012X5R0J225M085AA	
	400-	0.50.6.15	±10%	C1005X5R1A335K050BC	C1005X5R0J335K050BC	C1005X5R0G335K050BE
	1005	0.50±0.10	±20%	C1005X5R1A335M050BC	C1005X5R0J335M050BC	C1005X5R0G335M050BE
	1655	0.00 - 1-	±10%	C1608X5R1A335K080AC	C1608X5R0J335K080AB	
3.3 µF	1608	0.80±0.10	±20%	C1608X5R1A335M080AC	C1608X5R0J335M080AB	
-	06:-	105	±10%	C2012X5R1A335K125AA		
	2012	1.25±0.20	±20%	C2012X5R1A335M125AA		
			±10%	C1005X5R1A475K050BC	C1005X5R0J475K050BC	C1005X5R0G475K050BB
4.7 µF	1005	0.50+0.15/-0.10	±20%	C1005X5R1A475M050BC	C1005X5R0J475M050BC	C1005X5R0G475M050BB
						3.000,10.10047011000000

<sup>■</sup> The gray items are non-recommended products in the new design.

<sup>■</sup> The red items are products of the production will be stopped. Please confirm the schedule on product details information.



# **Capacitance Range Table**

#### Class 2 (Temperature Stable)

Temperature Characteristics: X5R(-55 to +85  $^{\circ}\text{C}$  , ±15%)

Capacitance	Size	Thickness	Capacitance _	Catalog Number		
Sapacitance	Size	(mm)	Tolerance	Rated Voltage Edc: 10V	Rated Voltage Edc: 6.3V	Rated Voltage Edc: 4V
	1608	0.80±0.10	±10%	C1608X5R1A475K080AC	C1608X5R0J475K080AB	
_	1000	0.0010.10	±20%	C1608X5R1A475M080AC	C1608X5R0J475M080AB	
		0.60±0.15	±10%	C2012X5R1A475K060AB		
4.7 µF		0.00±0.15	±20%	C2012X5R1A475M060AB		
4.7 μΓ	2012	0.85±0.15	±10%	C2012X5R1A475K085AC	C2012X5R0J475K085AB	
	2012	0.00±0.10	±20%	C2012X5R1A475M085AC	C2012X5R0J475M085AB	
		1 25 10 20	±10%	C2012X5R1A475K125AA	C2012X5R0J475K125AA	
		1.25±0.20	±20%	C2012X5R1A475M125AA	C2012X5R0J475M125AA	
	1600	0.0010.10	±10%	C1608X5R1A685K080AC	C1608X5R0J685K080AB	
	1608	0.80±0.10	±20%	C1608X5R1A685M080AC	C1608X5R0J685M080AB	
_		0.00.045	±10%	C2012X5R1A685K060AC		
00 5		0.60±0.15	±20%	C2012X5R1A685M060AC		
6.8 µF	0040	0.05.0.45	±10%	C2012X5R1A685K085AB	C2012X5R0J685K085AB	
	2012	0.85±0.15	±20%	C2012X5R1A685M085AB	C2012X5R0J685M085AB	
			±10%	C2012X5R1A685K125AB	C2012X5R0J685K125AB	
		1.25±0.20	±20%	C2012X5R1A685M125AB	C2012X5R0J685M125AB	
	1005	0.50+0.20/-0.10	±20%		C1005X5R0J106M050BC	C1005X5R0G106M050BI
-			±10%	C1608X5R1A106K080AC	C1608X5R0J106K080AB	
	1608	0.80±0.10	±20%	C1608X5R1A106M080AC	C1608X5R0J106M080AB	
=			±10%	C2012X5R1A106K085AB	C2012X5R0J106K085AB	
10 μF		0.85±0.15	±20%	C2012X5R1A106M085AB	C2012X5R0J106M085AB	
ιο μι	2012		±10%	C2012X5R1A106K125AB	C2012X5R0J106K125AB	
		1.25±0.20	±20%			
_				C2012X5R1A106M125AB	C2012X5R0J106M125AB	
	3216	1.60±0.20	±10%	C3216X5R1A106K160AB		
	4000	0.00.000 0.40	±20%	C3216X5R1A106M160AB	04000VED0 14501400040	04000V5D00450M000A
_	1608	0.80+0.20, -0.10	±20%	C1608X5R1A156M080AC	C1608X5R0J156M080AC	C1608X5R0G156M080A
	2012	0.85±0.15	±20%	C2012X5R1A156M085AC	C2012X5R0J156M085AB	
15 μF		1.25±0.20	±20%	C2012X5R1A156M125AB	C2012X5R0J156M125AC	
_	3216	1.60±0.20	±20%	C3216X5R1A156M160AB		
	3225	2.30±0.20	±20%	C3225X5R1A156M230AA		
_	1608	0.80+0.20, -0.10	±20%	C1608X5R1A226M080AC	C1608X5R0J226M080AC	C1608X5R0G226M080A
		0.85±0.15	±20%	C2012X5R1A226M085AC	C2012X5R0J226M085AB	
	2012	1.25±0.20	±10%	C2012X5R1A226K125AB	C2012X5R0J226K125AB	
_		1.2020.20	±20%	C2012X5R1A226M125AB	C2012X5R0J226M125AC	
22 µF	3216	0.85±0.15	±20%		C3216X5R0J226M085AC	
ΖΖ μι	32 10	1.60±0.20	±20%	C3216X5R1A226M160AC	C3216X5R0J226M160AA	
		2.00±0.20	±10%		C3225X5R0J226K200AA	
	3225	2.00±0.20	±20%		C3225X5R0J226M200AA	
		2.30±0.20	±20%	C3225X5R1A226M230AA		
_	4532	2.30±0.20	±20%	C4532X5R1A226M230KA		
	2012	1.25±0.20	±20%	C2012X5R1A336M125AC	C2012X5R0J336M125AC	
_	0040	1.30±0.20	±20%		C3216X5R0J336M130AC	
	3216	1.60±0.20	±20%	C3216X5R1A336M160AB		
33 μF -		2.00±0.20	±20%	C3225X5R1A336M200AC	C3225X5R0J336M200AA	
	3225	2.50±0.30	±20%		C3225X5R0J336M250AA	
_	4532	2.30±0.20	±20%	C4532X5R1A336M230KA		
	2012	1.25±0.20	±20%	C2012X5R1A476M125AC	C2012X5R0J476M125AC	C2012X5R0G476M125A
_	3216	1.60±0.20	±20%	C3216X5R1A476M160AB	C3216X5R0J476M160AC	320127(01(00410W120A)
47 μF	3225	2.50±0.30	±20%	C3225X5R1A476M250AC	C3225X5R0J476M250AA	
+1 μΓ _	3223	2.50±0.30	±20%	USZZSASIN IA47 DIVIZSUAC	C4532X5R0J476M250AA	
	4532	2.80±0.30		C4522VED4A476M4090KA	AVOCZNOJ 1 POD ZOCEO	
	2216		±20%	C4532X5R1A476M280KA	C2216VED0 IC2CM4C0AD	
-	3216	1.60+0.30, -0.10	±20%	C3216X5R1A686M160AC	C3216X5R0J686M160AB	
68 µF -	3225	2.00±0.20	±20%		C3225X5R0J686M200AC	
-	4532	2.80±0.30	±20%	05750\/55445555	C4532X5R0J686M280KA	
	5750	2.30±0.20	±20%	C5750X5R1A686M230KA		
_	3216	1.60+0.30, -0.10	±20%	C3216X5R1A107M160AC	C3216X5R0J107M160AB	C3216X5R0G107M160A
400	3225	2.50±0.30	±20%		C3225X5R0J107M250AC	
100 hr -				0.45003/5044407140001/0	CAESSVEDS HOTMOSSIA	
100 μF – –	4532 5750	2.80±0.30 2.80±0.30	±20% ±20%	C4532X5R1A107M280KC C5750X5R1A107M280KC	C4532X5R0J107M280KA C5750X5R0J107M280KA	

<sup>■</sup> The red items are products of the production will be stopped. Please confirm the schedule on product details information.

hease be sure to request delivery specifications that provide further details on the features and specifications of the products for proper and safe use. Please note that the contents may change without any prior notice due to reasons such as upgrading.



# **Capacitance Range Table**

### Class 2 (Temperature Stable)

Capacitance	Size	Thickness	Capacitance Tolerance	Catalog Number	Potod Voltore Ede: 251/	Potod Voltors Eds. 251/	Potod Voltage Edg. 1017
•		(mm)	±10%	Rated Voltage Edc: 50V	Rated Voltage Edc: 35V	Rated Voltage Edc: 25V	Rated Voltage Edc: 16V
2.2 nF	0603	0.30±0.03	±10% ±20%			C0603X6S1E222K030BA	C0603X6S1C222K030BA
			±20% ±10%			C0603X6S1E222M030BA	C0603X6S1C222M030B
4.7 nF	0603	0.30±0.03					C0603X6S1C472K030B
			±20%	C400EV6C411402IV0E0DD			C0603X6S1C472M030B
10 nF	1005	0.50±0.05	±10%	C1005X6S1H103K050BB			
			±20%	C1005X6S1H103M050BB			
15 nF	1005	0.50±0.05	±10%	C1005X6S1H153K050BB			
			±20%	C1005X6S1H153M050BB			000000000000000000000000000000000000000
	0603	0.30±0.03	±10%				C0603X6S1C223K030B
22 nF -			±20%	040057/004110001/050DD			C0603X6S1C223M030B
	1005	0.50±0.05	±10%	C1005X6S1H223K050BB			
			±20%	C1005X6S1H223M050BB			
33 nF	1005	0.50±0.05	±10%	C1005X6S1H333K050BB			
			±20%	C1005X6S1H333M050BB			
	0603	0.30±0.03	±10%				C0603X6S1C473K030B
47 nF -			±20%				C0603X6S1C473M030B
	1005	0.50±0.05	±10%	C1005X6S1H473K050BB			
			±20%	C1005X6S1H473M050BB			
68 nF	1005	0.50±0.05	±10%	C1005X6S1H683K050BB	C1005X6S1V683K050BB	C1005X6S1E683K050BC	
		0.0020.00	±20%	C1005X6S1H683M050BB	C1005X6S1V683M050BB	C1005X6S1E683M050BC	
	0603	0.30±0.03	±10%				C0603X6S1C104K030B
100 nF -	0000	0.0010.00	±20%				C0603X6S1C104M030B
100111	1005	0.50±0.05	±10%	C1005X6S1H104K050BB	C1005X6S1V104K050BB	C1005X6S1E104K050BB	
	1000	0.0010.00	±20%	C1005X6S1H104M050BB	C1005X6S1V104M050BB	C1005X6S1E104M050BB	
	1005	0.50±0.05	±10%			C1005X6S1E154K050BC	C1005X6S1C154K050B
150 nF -	1000	0.0010.00	±20%			C1005X6S1E154M050BC	C1005X6S1C154M050B
130 111	1608	0.80±0.10	±10%	C1608X6S1H154K080AB	C1608X6S1V154K080AB		
	1000	0.0010.10	±20%	C1608X6S1H154M080AB	C1608X6S1V154M080AB		
	1005	0.50±0.05	±10%			C1005X6S1E224K050BC	C1005X6S1C224K050B
220 5	1005	0.30±0.03	±20%			C1005X6S1E224M050BC	C1005X6S1C224M050B
220 nF -	4000	0.0010.40	±10%	C1608X6S1H224K080AB	C1608X6S1V224K080AB		
	1608	0.80±0.10	±20%	C1608X6S1H224M080AB	C1608X6S1V224M080AB		
	1005	0.50+0.05	±10%				C1005X6S1C334K050B
220 - 5	1005	0.50±0.05	±20%				C1005X6S1C334M050B
330 nF -	4000	0.00+0.40	±10%	C1608X6S1H334K080AB	C1608X6S1V334K080AB	C1608X6S1E334K080AB	
	1608	0.80±0.10	±20%	C1608X6S1H334M080AB	C1608X6S1V334M080AB	C1608X6S1E334M080AB	
	1005	0.50.0.05	±10%				C1005X6S1C474K050B
	1005	0.50±0.05	±20%				C1005X6S1C474M050B
			±10%	C1608X6S1H474K080AB	C1608X6S1V474K080AB	C1608X6S1E474K080AB	
470 nF	1608	0.80±0.10	±20%	C1608X6S1H474M080AB	C1608X6S1V474M080AB	C1608X6S1E474M080AB	
_			±10%	C2012X6S1H474K125AB			
	2012	1.25±0.20	±20%	C2012X6S1H474M125AB			
			±10%				C1005X6S1C684K050B
	1005	0.50±0.05	±20%				C1005X6S1C684M050B
-			±10%	C1608X6S1H684K080AC	C1608X6S1V684K080AB	C1608X6S1E684K080AB	C1608X6S1C684K080A
680 nF	1608	0.80±0.10	±20%	C1608X6S1H684M080AC	C1608X6S1V684M080AB	C1608X6S1E684M080AB	C1608X6S1C684M080A
-			±10%	C2012X6S1H684K125AB			
	2012	1.25±0.20	±20%	C2012X6S1H684M125AB			
			±10%				C1005X6S1C105K050B
	1005	0.50±0.05	±20%				C1005X6S1C105M050B
-			±10%	C1608X6S1H105K080AC	C1608X6S1V105K080AB	C1608X6S1E105K080AB	C1608X6S1C105K080A
	1608	0.80±0.10	±20%	C1608X6S1H105M080AC	C1608X6S1V105M080AB	C1608X6S1E105M080AB	C1608X6S1C105M080A
1 μF -			±10%	C2012X6S1H105K085AB	C2012X6S1V105K085AB	C2012X6S1E105K085AB	5.555/00101000P
		0.85±0.15	±10%	C2012X6S1H105M085AB	C2012X6S1V105M085AB	C2012X6S1E105M085AB	
	2012		±10%		02012X001V103W003AB	02012X001E103W003AB	
		1.25±0.20	±10%	C2012X6S1H105K125AB C2012X6S1H105M125AB			
				OZUTZAUSTI TUSIVITZSAB			C100EV6C1C1EEVC50D
		0.50+0.15/-0.10	±10%				C1005X6S1C155K050B
	1005		±20%				C1005X6S1C155M050B
	1005						124 MOD V MO 4 P 4 E E IZ NO 0 A
	1005	0.80±0.10	±10%				
- 1.5 μF -		0.80±0.10	±10% ±20%				
- 1.5 µF -	1608		±10% ±20% ±10%	C2012X6S1H155K125AB	C2012X6S1V155K125AB	C2012X6S1E155K125AB	
- 1.5 µF -		0.80±0.10 1.25±0.20	±10% ±20% ±10% ±20%	C2012X6S1H155M125AB	C2012X6S1V155M125AB	C2012X6S1E155K125AB C2012X6S1E155M125AB	C1608X6S1C155K080A0 C1608X6S1C155M080A0
- 1.5 μF -	1608		±10% ±20% ±10%				

 $<sup>\</sup>blacksquare$  The gray items are non-recommended products in the new design.



# **Capacitance Range Table**

#### Class 2 (Temperature Stable)

Temperature Characteristics: X6S(-55 to +105  $^{\circ}$ C, ±22%)

Part	Capacitance	Size	Thickness	Capacitance	Catalog Number			
1005   0.59-01.15, -0.10   2.00%	Сараспапсе	Size	(mm)	Tolerance	Rated Voltage Edc: 50V	Rated Voltage Edc: 35V	Rated Voltage Edc: 25V	Rated Voltage Edc: 16V
1608		1005	0.50+0.15 -0.10	±10%				C1005X6S1C225K050BC
2.2 μF   2012   2.5 μβ   2.0 μβ   2.	_	1000	0.00 · 0.10, -0.10	±20%				C1005X6S1C225M050BC
2.2 µF 2.2 µF 2.2 µF 2.012  2.2 µF 2.015  2.012  2.2 µF 2.016  2.012		1608	0.80+0.10	±10%				C1608X6S1C225K080AC
2.2 μP	_	1000	0.0010.10	±20%				C1608X6S1C225M080AC
2012   1.0%	2 2 uE		0.85+0.15	±10%	C2012X6S1H225K085AC	C2012X6S1V225K085AB	C2012X6S1E225K085AB	C2012X6S1C225K085AB
1.25±0.20	2.2 μι	2012	0.0010.10		C2012X6S1H225M085AC	C2012X6S1V225M085AB	C2012X6S1E225M085AB	C2012X6S1C225M085AB
3216   1.60±0.20		2012	1 25+0 20		C2012X6S1H225K125AB	C2012X6S1V225K125AB	C2012X6S1E225K125AC	
1608   0.80+0.20 - 0.10   100%   120%   1	_		1.2310.20	±20%	C2012X6S1H225M125AB	C2012X6S1V225M125AB	C2012X6S1E225M125AC	
1608   0.80+0.20, -0.10   -10%   -		3216	1 60+0 20		C3216X6S1H225K160AB	C3216X6S1V225K160AB		
3.3 μF   2012		3210	1.0010.20	±20%	C3216X6S1H225M160AB	C3216X6S1V225M160AB		
3.3 μF   2012   1.25±0.20   1.0%   C.2012X6S1H33SK125AC   C.2012X6S1V33SK125AB   C.2012X6S1E33SK125AC   C.2012X6S1C3SSK125AC   C.2012X6S1C3SSC125AC   C.2012X		1608	0.80+0.20 -0.10					C1608X6S1C335K080AC
2012   1.25±0.20   ±20%   C2012X6S1H33SM125AC   C2012X6S1E33SM125AC   C2012X6S1E33SM125AC   C2012X6S1C33SM125AC     3216	_	1000	0.00 - 0.20, -0.10	±20%				C1608X6S1C335M080AC
3216	3 3 uF	2012	1 25+0 20	±10%	C2012X6S1H335K125AC	C2012X6S1V335K125AB	C2012X6S1E335K125AC	C2012X6S1C335K125AC
1608   0.80+0.20, -0.10   ±10%   £20%   £	σ.σ μι	· —	1.2010.20	±20%	C2012X6S1H335M125AC	C2012X6S1V335M125AB	C2012X6S1E335M125AC	C2012X6S1C335M125AC
1608   0.80+0.20, -0.10   10.9%   C.3216X6S1H335M160AB   C.3216X6S1V335M160AB   C.1608X6S1C475K080AC   C.1608X6S1C475K080AC   C.1608X6S1C475K080AC   C.1608X6S1C475K080AC   C.1608X6S1C475K080AC   C.1608X6S1C475K080AC   C.1608X6S1C475K080AC   C.2012X6S1C475K080AC   C.2012X6S1C475K080AC   C.2012X6S1C475K080AC   C.2012X6S1C475K085AC   C.2012X6			1 60+0 20		C3216X6S1H335K160AB	C3216X6S1V335K160AB		
1698   0.80+0.20, -0.10   ±20%   C1608X6S1C475M080AC   C2012X6S1C475M080AC   C2012X6S1C475M080AC   C2012X6S1C475M080AC   C2012X6S1C475K085AC   C2012X6S1C475K085AC   C2012X6S1C475K085AC   ±10%   £20%   £20%   C2012X6S1H475K125AC   C2012X6S1V475K125AB   C2012X6S1E475K125AC   C2012X6S1C475K085AC   C2012X6S1C475K085AC   C2012X6S1C475K085AC   £20%   C2012X6S1C475K085AC   C2012X6S1C475K085AB   £20%   C2012X6S1C475K085AB   C2012X6S1E475K085AB   £20%   C2012X6S1C475K085AB   C2012X6S1E475K085AB   C2012X6S1E475K085AB   £20%   C2012X6S1C475K085AB   C2012X6S1E475K085AB   C2012X6S1E475K085AB   £20%   C2012X6S1C475K085AB   C2012X6S1E475K160AB   C2012X6S1C685K125AC   C2012X6S1C485K125AC   C2012X6S1C485AC   C2012X6S1C42X6AC   C2012X6S1C42X6AC   C2012X6S1C42X6AC   C2012X6S1C42X6AC   C2012X6S1C42X6AC   C2012X6S1C42X6A		0210	1.00±0.20		C3216X6S1H335M160AB	C3216X6S1V335M160AB		
1-10   1-10		1608	0.80+0.20 -0.10					C1608X6S1C475K080AC
2012   1.25±0.20   ±10%   ±20%   ±10%   ±20%   ±	=	1000	0.00 - 0.20, 0.10	±20%				C1608X6S1C475M080AC
2012   1.25±0.20   2.00%   2.000%   2.000%   2.00%			0.85+0.15					C2012X6S1C475K085AC
1.25±0.20		2012	0.0020.10					C2012X6S1C475M085AC
4.7 μF		2012	1 25+0 20		C2012X6S1H475K125AC	C2012X6S1V475K125AB	C2012X6S1E475K125AC	C2012X6S1C475K125AC
10 μF   2012   1.25±0.20   110%	47 uE =		1.2020.20	±20%	C2012X6S1H475M125AC	C2012X6S1V475M125AB	C2012X6S1E475M125AC	C2012X6S1C475M125AC
1	4.7 μι		0.85±0.15	±10%		C3216X6S1V475K085AC	C3216X6S1E475K085AB	
1.60±0.20		3216		±20%		C3216X6S1V475M085AC	C3216X6S1E475M085AB	
120%   C3216X6S1H475M160AB   C3216X6S1475K160AB   C3216X6S1E475M160AB   C3216X6S1E475M160AB     3225   2.50±0.30   ±10%   C3225X6S1H475K250AB     2012   1.25±0.20   ±10%   C3225X6S1H475M250AB     2012   1.25±0.20   ±10%   C3216X6S1V685K160AC   C3216X6S1E685K160AB   C3216X6S1C685K125AC     2012   2.50±0.30   ±10%   C3225X6S1H685K250AC   C3216X6S1V685M160AC   C3216X6S1E685M160AB   C3216X6S1C685M160AC     3225   2.50±0.30   ±10%   C3225X6S1H685K250AC   C3225X6S1V685M250AC   C3225X6S1E685M250AB     410%   C3225X6S1H685M250AC   C3225X6S1V685M250AC   C3225X6S1E685M250AB     410%   C3225X6S1H685M250AC   C3225X6S1V685M250AC   C3225X6S1E685M250AB     410%   C3225X6S1H685M250AC   C3225X6S1V685M250AC   C3225X6S1E685M250AB     410%   C2012X6S1C106M085AC     420%   C2012X6S1C106M085AC     420%   C2012X6S1C106M085AC     420%   C3216X6S1V106M160AC   C3216X6S1E106K160AB     420%   C3216X6S1C106M085AC     420%   C3216X6S1V106M160AC   C3216X6S1E106K160AB     410%   C3216X6S1C106M085AC     420%   C3216X6S1V106M160AC   C3216X6S1E106M160AB     420%   C3216X6S1C106M085AC     420%   C3225X6S1H106M250AC   C3225X6S1E106M250AC     420%   C3225X6S1E106M250AC   C3225X6S1E106M250AC   C3225X6S1E106M250AC     420%   C32		3210	1 60+0 20	±10%	C3216X6S1H475K160AB	C3216X6S1V475K160AB	C3216X6S1E475K160AB	
\$\frac{1}{20} \frac{1}{2} \	=		1.00±0.20		C3216X6S1H475M160AB	C3216X6S1V475M160AB	C3216X6S1E475M160AB	
\$\frac{\f		3225	2.50±0.30	±10%	C3225X6S1H475K250AB			
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		0220		±20%	C3225X6S1H475M250AB			
$6.8 \ \mu F \\ 10 \ \mu F$		2012	1 25+0 20	±10%				C2012X6S1C685K125AC
$\frac{6.8  \mu \text{F}}{3225}  \frac{3216}{3225}  \frac{1.60 \pm 0.20}{2.50 \pm 0.30}  \frac{\pm 20\%}{2.50 \pm 0.30}  \frac{\pm 20\%}{2.50 \pm 0.30}  \frac{\pm 20\%}{2.50 \pm 0.30}  \frac{\pm 10\%}{2.50\%}  \frac{\text{C}3225 \times 681 \text{H}685 \text{K}250 \text{AC}}{2.50\%}  \frac{\text{C}3225 \times 681 \text{H}685 \text{K}250 \text{AC}}{2.325 \times 681 \text{H}685 \text{M}250 \text{AC}}  \frac{\text{C}3225 \times 681 \text{H}685 \text{K}250 \text{AC}}{2.325 \times 681 \text{H}685 \text{M}250 \text{AC}}  \frac{\text{C}3225 \times 681 \text{H}685 \text{K}250 \text{AC}}{2.325 \times 681 \text{H}685 \text{M}250 \text{AC}}  \frac{\text{C}3225 \times 681 \text{H}685 \text{K}250 \text{AC}}{2.325 \times 681 \text{H}685 \text{M}250 \text{AC}}  \frac{\text{C}3225 \times 681 \text{H}685 \text{K}250 \text{AC}}{2.325 \times 681 \text{H}685 \text{M}250 \text{AC}}  \frac{\text{C}3225 \times 681 \text{H}685 \text{K}250 \text{AC}}{2.2012 \times 681 \text{C}106 \text{K}085 \text{AC}}  \frac{\text{C}2012 \times 681 \text{C}106 \text{K}085 \text{AC}}{2.2012 \times 681 \text{C}106 \text{K}085 \text{AC}}  \frac{\text{C}2012 \times 681 \text{C}106 \text{K}085 \text{AC}}{2.2012 \times 681 \text{C}106 \text{K}165 \text{AC}}  \frac{\text{C}2012 \times 681 \text{C}106 \text{K}165 \text{AC}}{2.2012 \times 681 \text{C}106 \text{K}165 \text{AC}}  \frac{\text{C}2012 \times 681 \text{C}106 \text{K}165 \text{AC}}{2.2012 \times 681 \text{C}106 \text{K}165 \text{AC}}  \frac{\text{C}2012 \times 681 \text{C}106 \text{K}165 \text{AC}}{2.2012 \times 681 \text{C}106 \text{K}160 \text{AB}}  \frac{\text{C}2012 \times 681 \text{C}106 \text{K}160 \text{AB}}{2.2012 \times 2.50 \times 691 \text{H}106 \times 250 \text{AC}}  \frac{\text{C}3216 \times 681 \text{V}106 \text{K}160 \text{AC}}{2.2012 \times 681 \text{C}106 \text{K}160 \text{AB}}  \frac{\text{C}3216 \times 681 \text{C}106 \text{K}160 \text{AB}}{2.2012 \times 2.50 \times 691 \text{H}106 \times 250 \text{AC}}  \frac{\text{C}3216 \times 681 \text{V}106 \text{K}160 \text{AC}}{2.2012 \times 681 \text{C}106 \text{K}160 \text{AB}}  \frac{\text{C}3216 \times 681 \text{C}106 \text{K}160 \text{AB}}{2.2012 \times 2.50 \times 691 \text{H}106 \times 250 \text{AC}}  \frac{\text{C}3225 \times 681 \text{H}106 \text{K}250 \text{AC}}{2.2012 \times 681 \text{C}106 \text{K}160 \text{AC}}  \frac{\text{C}3216 \times 681 \text{C}106 \text{K}160 \text{AC}}{2.2012 \times 681 \text{C}106 \text{K}160 \text{AC}}  \frac{\text{C}3216 \times 681 \text{C}106 \text{K}160 \text{AC}}{2.2012 \times 681 \text{C}106 \text{K}160 \text{AC}}  \frac{\text{C}3216 \times 681 \text{C}106 \text{K}160 \text{AC}}{2.2012 \times 681 \text{C}106 \text{K}160 \text{AC}}  \frac{\text{C}3216 \times 681 \text{C}106 \text{K}160 \text{AC}}{2.2012 \times 681 \text{C}106 \text{K}160 \text{AC}}  \frac{\text{C}3216 \times 681 \text{C}106 \text{K}160 \text{AC}}{2.2012 \times 681 \text{C}106 \text{K}160 \text{AC}}  \frac{\text{C}3216 \times 681 \text{C}106 \text{K}160 \text{AC}}{2.2012 \times 681 \text{C}106 \text{K}160 \text{AC}}  \frac{\text{C}3216 \times 681 \text{C}106 \text{K}16$	_	2012	1.2020.20					C2012X6S1C685M125AC
10 μF   3216   1.00±0.20	6.8 uE	3216	1 60+0 20			C3216X6S1V685K160AC	C3216X6S1E685K160AB	C3216X6S1C685K160AC
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	0.0 μι	0210	1.00±0.20	±20%		C3216X6S1V685M160AC	C3216X6S1E685M160AB	C3216X6S1C685M160AC
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$		3225	2 50+0 30		C3225X6S1H685K250AC	C3225X6S1V685K250AC	C3225X6S1E685K250AB	
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$		0220	2.30±0.30		C3225X6S1H685M250AC	C3225X6S1V685M250AC	C3225X6S1E685M250AB	
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$			0.85+0.15					C2012X6S1C106K085AC
$10 \ \mu F \\ 10 \ \mu F \\ 100 \ $		2012	0.0010.10					C2012X6S1C106M085AC
$10 \ \mu F \\ 10 \ \mu F \\ 100 \ $		2012	1 25+0 20					C2012X6S1C106K125AC
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	=		1.2010.20	±20%				C2012X6S1C106M125AC
$\frac{3216}{1.60\pm0.20} \begin{array}{c} \pm20\% \\ \hline 1.60\pm0.20 \\ \hline \end{array} \begin{array}{c} \pm20\% \\ \hline \end{array} \begin{array}{c} \pm20\% \\ \hline \end{array} \begin{array}{c} \text{C3216X6S1V106K160AC} \\ \hline \end{array} \begin{array}{c} \text{C3216X6S1E106K160AB} \\ \hline \end{array} \begin{array}{c} \text{C3216X6S1E126K1256M160AC} \\ \hline \end{array} \begin{array}{c} \text{C3216X6S1E126K1256M160AC} \\ \hline \end{array} \begin{array}{c} \text{C3216X6S1E226M125AC} \\ \hline \end{array} \begin{array}{c} \text{C3216X6S1E226M160AC} \\ \hline \end{array} \begin{array}{c} \text{C3216X6S1C226M160AC} \\ \hline \end{array} \begin{array}{c} \text{C3216X6M160AC} \\ \hline \end{array} \begin{array}{c} \text{C3216X6M160AC} \\ \hline \end{array} \begin{array}{c} \text{C3216X6M160AC} \\ \hline \end{array}$	10 uF		0.85+0.15					C3216X6S1C106K085AC
$\frac{1.60\pm0.20}{1.60\pm0.20} \  \   \frac{\pm10\%}{\pm20\%} \  \   \frac{\text{C3216X6S1V106K160AC}}{\text{C3216X6S1V106M160AC}} \  \   \frac{\text{C3216X6S1E106K160AB}}{\text{C3216X6S1E106M160AB}} \  \   \frac{\text{C3216X6S1C106M160AB}}{\text{C3216X6S1E106M160AB}} \  \   \frac{\text{C3216X6S1C106M160AB}}{\text{C3216X6S1E106M160AB}} \  \  \   \frac{\text{C3216X6S1E106M160AB}}{\text{C3225X6S1H106M250AC}} \  \  \  \  \  \  \  \  \  \  \  \  \$	10 μι	3216	0.0010.10					
$\frac{\pm 20\%}{3225} \qquad \frac{\pm 20\%}{2.50 \pm 0.30} \qquad \frac{\pm 10\%}{200} \qquad \frac{\text{C3225X6S1H106K250AC}}{\text{C3225X6S1H106K250AC}} \qquad \frac{\text{C3225X6S1V106M160AB}}{\text{C3225X6S1V106K250AC}} \qquad \frac{\text{C3225X6S1E106K250AC}}{\text{C3225X6S1H106K250AC}} \qquad \frac{\text{C3225X6S1H106K250AC}}{\text{C3225X6S1H106M250AC}} \qquad \frac{\text{C3225X6S1H106M250AC}}{\text{C3225X6S1H106M250AC}} \qquad \frac{\text{C3225X6S1E106M250AC}}{\text{C3225X6S1E106M250AC}} \qquad \frac{\text{C2012X6S1C156M125AC}}{\text{C3216X6S1C156M160AC}} \qquad \frac{\text{C3216X6S1C156M160AC}}{\text{C3216X6S1C226M125AC}} \qquad \frac{\text{C3216X6S1C226M125AC}}{\text{C3216X6S1C226M160AC}} \qquad \frac{\text{C3216X6S1C226M160AC}}{\text{C3216X6S1C226M160AC}} \qquad \frac{\text{C3216X6S1C26M160AC}}{\text{C3216X6S1C26M160AC}} \qquad \frac{\text{C3216X6S1C26M160AC}}{\text{C3216X6S1C226M160AC}} \qquad \frac{\text{C3216X6S1C26M160AC}}{\text{C3216X6S1C26M160AC}} \qquad \text{C3216X6S1C26$		02.0	1 60+0 20			C3216X6S1V106K160AC	C3216X6S1E106K160AB	C3216X6S1C106K160AB
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	=		1.0010.20	±20%		C3216X6S1V106M160AC	C3216X6S1E106M160AB	C3216X6S1C106M160AB
$\frac{15 \ \mu F}{220 \ \mu F} = \frac{2012}{3216} \frac{1.25 \pm 0.20}{1.25 \pm 0.20} \frac{\pm 20\%}{220\%} \frac{C3225 \times 681 \ H 106 \ M 250 \ AC}{220 \ \mu F} \frac{2025 \times 681 \ H 106 \ M 250 \ AC}{220 \ \mu F} \frac{2025 \times 681 \ H 106 \ M 250 \ AC}{220 \times 225 \times 681 \ H 106 \ M 250 \ AC} \frac{C3225 \times 681 \ H 106 \ M 250 \ AC}{2325 \times 681 \ H 106 \ M 250 \ AC} \frac{C3225 \times 681 \ H 106 \ M 250 \ AC}{2325 \times 681 \ H 106 \ M 250 \ AC} \frac{C3225 \times 681 \ H 106 \ M 250 \ AC}{2225 \times 681 \ H 106 \ M 250 \ AC} \frac{C3225 \times 681 \ H 106 \ M 250 \ AC}{2225 \times 681 \ H 106 \ M 250 \ AC} \frac{C3225 \times 681 \ H 106 \ M 250 \ AC}{2326 \times 681 \ AC} \frac{C3225 \times 681 \ H 106 \ M 250 \ AC}{2326 \times 681 \ AC} \frac{C3225 \times 681 \ H 106 \ M 250 \ AC}{2326 \times 681 \ AC} \frac{C3225 \times 681 \ H 106 \ M 250 \ AC}{2326 \times 681 \ AC} \frac{C3225 \times 681 \ H 106 \ M 250 \ AC}{2326 \times 681 \ AC} \frac{C3225 \times 681 \ H 106 \ M 250 \ AC}{2326 \times 681 \ AC} \frac{C3225 \times 681 \ H 106 \ M 250 \ AC}{2326 \times 681 \ AC} \frac{C3225 \times 681 \ H 106 \ M 250 \ AC}{2326 \times 681 \ AC} \frac{C3225 \times 681 \ H 106 \ M 250 \ AC}{2326 \times 681 \ AC} \frac{C3225 \times 681 \ AC}{2326 \times 681 \ AC} C3225$		3225	2 50+0 30			C3225X6S1V106K250AC	C3225X6S1E106K250AC	
15 μF     3216     1.60±0.20     ±20%     C3216X6S1C156M160AC       2012     1.25±0.20     ±20%     C2012X6S1C226M125AC       22 μF     3216     1.60±0.20     ±20%     C3216X6S1C226M160AC		0220			C3225X6S1H106M250AC	C3225X6S1V106M250AC	C3225X6S1E106M250AC	
3216     1.60±0.20     ±20%     C3216X6S1C156M160AC       2012     1.25±0.20     ±20%     C2012X6S1C226M125AC       22 μF     3216     1.60±0.20     ±20%     C3216X6S1C226M160AC	15 uF -							C2012X6S1C156M125AC
22 µF 3216 1.60±0.20 ±20% C3216X6S1C226M160AC			1.60±0.20					C3216X6S1C156M160AC
	=		1.25±0.20					C2012X6S1C226M125AC
3225 2.50±0.30 ±20% C3225X6S1C226M250AC	22 µF		1.60±0.20					C3216X6S1C226M160AC
		3225	2.50±0.30	±20%				C3225X6S1C226M250AC

#### Class 2 (Temperature Stable)

Temperature Characteristics: X6S(-55 to +105  $^{\circ}\text{C}\,,\,\pm22\%)$ 

Capacitance	Size	Thickness	Capacitance	Catalog Number		
Сараспансе	Size	(mm)	Tolerance	Rated Voltage Edc: 10V	Rated Voltage Edc: 6.3V	Rated Voltage Edc: 4V
100 pF	0402	0.20±0.02	±10%	C0402X6S1A101K020BC	C0402X6S0J101K020BC	C0402X6S0G101K020BC
100 pr 0402		0.20±0.02	±20%	C0402X6S1A101M020BC	C0402X6S0J101M020BC	C0402X6S0G101M020BC
150 pF	150 pF 0402	0.20±0.02	±10%	C0402X6S1A151K020BC	C0402X6S0J151K020BC	C0402X6S0G151K020BC
150 pr	0402	0.20±0.02	±20%	C0402X6S1A151M020BC	C0402X6S0J151M020BC	C0402X6S0G151M020BC
220 55	0402	0.20±0.02	±10%	C0402X6S1A221K020BC	C0402X6S0J221K020BC	C0402X6S0G221K020BC
220 pr	220 pF 0402		±20%	C0402X6S1A221M020BC	C0402X6S0J221M020BC	C0402X6S0G221M020BC
330 pF	330 pF 0402		±10%	C0402X6S1A331K020BC	C0402X6S0J331K020BC	C0402X6S0G331K020BC
330 pr	0402	0.20±0.02	±20%	C0402X6S1A331M020BC	C0402X6S0J331M020BC	C0402X6S0G331M020BC

 $<sup>\</sup>blacksquare$  The gray items are non-recommended products in the new design.



# **Capacitance Range Table**

#### Class 2 (Temperature Stable)

apacitance	Size	Thickness (mm)	Capacitance _ Tolerance	Catalog Number Rated Voltage Edc: 10V	Rated Voltage Edc: 6.3V	Rated Voltage Edc: 4V
470 pF	0402	0.20±0.02	±10%	C0402X6S1A471K020BC	C0402X6S0J471K020BC	C0402X6S0G471K020B
470 pi	0402	0.2010.02	±20%	C0402X6S1A471M020BC	C0402X6S0J471M020BC	C0402X6S0G471M020B
680 pF	0402	0.20±0.02	±10%	C0402X6S1A681K020BC	C0402X6S0J681K020BC	C0402X6S0G681K020B
oou pr	0402	0.20±0.02	±20%	C0402X6S1A681M020BC	C0402X6S0J681M020BC	C0402X6S0G681M020B
22.5	0603	0.30+0.03	±10%	C0603X6S1A222K030BA	C0603X6S0J222K030BA	
2.2 nF	0003	0.30±0.03	±20%	C0603X6S1A222M030BA	C0603X6S0J222M030BA	
47.5	0000	0.20+0.02	±10%	C0603X6S1A472K030BA	C0603X6S0J472K030BA	
4.7 nF	0603	0.30±0.03	±20%	C0603X6S1A472M030BA	C0603X6S0J472M030BA	
10 5	0000	0.20+0.02	±10%	C0603X6S1A103K030BA	C0603X6S0J103K030BA	
10 nF	0603	0.30±0.03	±20%	C0603X6S1A103M030BA	C0603X6S0J103M030BA	
00 . F	0000	0.00.000	±10%	C0603X6S1A223K030BB		C0603X6S0G223K030B
22 nF	0603	0.30±0.03	±20%	C0603X6S1A223M030BB		C0603X6S0G223M030B
47 -	0000	0.00.000	±10%	C0603X6S1A473K030BB		C0603X6S0G473K030B
47 nF	0603	0.30±0.03	±20%	C0603X6S1A473M030BB		C0603X6S0G473M030E
			±10%			C0603X6S0G683K030B
68 nF	0603	0.30±0.03	±20%			C0603X6S0G683M030E
			±10%		C0603X6S0J104K030BC	C0603X6S0G104K030B
	0603	0.30±0.03	±20%		C0603X6S0J104M030BC	C0603X6S0G104M030B
100 nF -			±10%		C1005X6S0J104K050BA	C1005X6S0G104K050B
	1005	0.50±0.05	±20%		C1005X6S0J104M050BA	C1005X6S0G104M050E
			±10%		C0603X6S0J154K030BC	C0603X6S0G154K030E
		0.30±0.03	±20%		C0603X6S0J154M030BC	C0603X6S0G154M030E
	0603	-	±10%	C0603X6S1A154K030BC	00000X000010-1W000D0	
150 nF		0.30±0.05	±20%	C0603X6S1A154M030BC		
_			±10%	00003X001A134W030B0	C1005X6S0J154K050BC	C1005X6S0G154K050E
	1005	0.50±0.05			C1005X6S0J154M050BC	C1005X6S0G154K050E
			±20% ±10%			C0603X6S0G224K030E
		0.30±0.03			C0603X6S0J224K030BC C0603X6S0J224M030BC	
	0603		±20%	C0C02VCC4A224V020BC	C0003A030J2Z4W030BC	C0603X6S0G224M030E
220 nF		0.30±0.05	±10%	C0603X6S1A224K030BC		
_			±20%	C0603X6S1A224M030BC	040057000 1004705000	0400570000004100505
	1005	0.50±0.05	±10%		C1005X6S0J224K050BC	C1005X6S0G224K050E
			±20%		C1005X6S0J224M050BC	C1005X6S0G224M050E
	0603	0.30±0.05	±10%			C0603X6S0G334K030E
330 nF -			±20%	0400570044004705050	040057000 1004705000	C0603X6S0G334M030E
	1005	0.50±0.05	±10%	C1005X6S1A334K050BC	C1005X6S0J334K050BC	C1005X6S0G334K050B
	2222	0.00.0.05	±20%	C1005X6S1A334M050BC	C1005X6S0J334M050BC	C1005X6S0G334M050E
470 -	0603	0.30±0.05	±20%			C0603X6S0G474M030E
470 nF	1005	0.50±0.05	±10%	C1005X6S1A474K050BC	C1005X6S0J474K050BC	C1005X6S0G474K050E
			±20%	C1005X6S1A474M050BC	C1005X6S0J474M050BC	C1005X6S0G474M050E
680 nF	1005	0.50±0.05	±10%	C1005X6S1A684K050BC	C1005X6S0J684K050BC	C1005X6S0G684K050E
			±20%	C1005X6S1A684M050BC	C1005X6S0J684M050BC	C1005X6S0G684M050E
	1005	0.50±0.05	±10%	C1005X6S1A105K050BC	C1005X6S0J105K050BC	C1005X6S0G105K050E
1μF -			±20%	C1005X6S1A105M050BC	C1005X6S0J105M050BC	C1005X6S0G105M050E
. μ.	1608	0.80+0.15/-0.10	±10%	C1608X6S1A105K080AC	C1608X6S0J105K080AC	
		0.00 0.10, 0.10	±20%	C1608X6S1A105M080AC	C1608X6S0J105M080AC	
		0.50±0.05	±10%		C1005X6S0J155K050BC	C1005X6S0G155K050E
	1005	0.5010.00	±20%		C1005X6S0J155M050BC	C1005X6S0G155M050E
1.5 µF	1000	0.50±0.10	±10%	C1005X6S1A155K050BC		
1.5 μΓ		0.50±0.10	±20%	C1005X6S1A155M050BC		
	1600	0.80±0.10	±10%	C1608X6S1A155K080AB	C1608X6S0J155K080AB	
	1608	0.60±0.10	±20%	C1608X6S1A155M080AB	C1608X6S0J155M080AB	
		0.50+0.05	±10%		C1005X6S0J225K050BC	C1005X6S0G225K050E
	4005	0.50±0.05	±20%		C1005X6S0J225M050BC	C1005X6S0G225M050E
0.0	1005	0.50:0.40	±10%	C1005X6S1A225K050BC		
2.2 µF		0.50±0.10	±20%	C1005X6S1A225M050BC		
_	4677	0.00 - 1-	±10%	C1608X6S1A225K080AB	C1608X6S0J225K080AB	
	1608	0.80±0.10	±20%	C1608X6S1A225M080AB	C1608X6S0J225M080AB	
			±10%			C1005X6S0G335K050E
	1005	0.50±0.10	±20%			C1005X6S0G335M050E
			±10%	C1608X6S1A335K080AC	C1608X6S0J335K080AB	3.000,000000000000000000000000000000000
3.3 µF -			± 10 /0			
3.3 µF -	1608	0.80±0.10	+20%	C1608X6S1A335M090AC	C1608X6S0 B35FM080VD	
3.3 μF -			±20%	C1608X6S1A335M080AC	C1608X6S0J335M080AB	C1005Y6S0C475M0505
3.3 μF - 4.7 μF	1608 1005	0.80±0.10 0.50+0.15/-0.10	±20% ±20% ±10%	C1608X6S1A335M080AC C1608X6S1A475K080AC	C1608X6S0J335M080AB C1608X6S0J475K080AB	C1005X6S0G475M050E

 $<sup>\</sup>blacksquare$  The gray items are non-recommended products in the new design.

<sup>■</sup> The red items are products of the production will be stopped. Please confirm the schedule on product details information.



# **Capacitance Range Table**

#### Class 2 (Temperature Stable)

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

			,	, ,		
Capacitance	Size	Thickness	Capacitance _	Catalog Number		
Сараспансе	Size	(mm)	Tolerance	Rated Voltage Edc: 10V	Rated Voltage Edc: 6.3V	Rated Voltage Edc: 4V
		0.85±0.15	±10%	C2012X6S1A475K085AB		
4.7 µF	2012	0.0010.10	±20%	C2012X6S1A475M085AB		
4.7 μι	2012	1.25±0.20	±10%		C2012X6S0J475K125AB	
		1.25±0.20	±20%		C2012X6S0J475M125AB	
		0.80±0.10	±10%			C1608X6S0G685K080A0
	1608	0.00±0.10	±20%			C1608X6S0G685M080A0
	1000	0.80+0.20, -0.10	±10%	C1608X6S1A685K080AC	C1608X6S0J685K080AB	
		0.00+0.20, -0.10	±20%	C1608X6S1A685M080AC	C1608X6S0J685M080AB	
60		0.0510.15	±10%	C2012X6S1A685K085AC	C2012X6S0J685K085AB	
6.8 µF	2012	0.85±0.15	±20%	C2012X6S1A685M085AC	C2012X6S0J685M085AB	
	2012	4.05+0.00	±10%	C2012X6S1A685K125AB		
		1.25±0.20	±20%	C2012X6S1A685M125AB		
_	0040	0.05.0.45	±10%	C3216X6S1A685K085AB		
	3216	0.85±0.15	±20%	C3216X6S1A685M085AB		
		0.00.0.40	±10%			C1608X6S0G106K080A
	1608	0.80±0.10	±20%			C1608X6S0G106M080A
	0.80+0.20, -0.10	±20%	C1608X6S1A106M080AC	C1608X6S0J106M080AC		
			±10%	C2012X6S1A106K085AC	C2012X6S0J106K085AC	
	0040	0.85±0.15	±20%	C2012X6S1A106M085AC	C2012X6S0J106M085AC	
10 μF	2012	1.25±0.20	±10%	C2012X6S1A106K125AB	C2012X6S0J106K125AB	C2012X6S0G106K125A0
			±20%	C2012X6S1A106M125AB	C2012X6S0J106M125AB	C2012X6S0G106M125A
_		0.85±0.15	±10%	C3216X6S1A106K085AB		
	0040		±20%	C3216X6S1A106M085AB		
	3216		±10%		C3216X6S0J106K160AC	
		1.60±0.20	±20%		C3216X6S0J106M160AC	
	0040	0.85±0.15	±20%			C2012X6S0G156M085A
15 µF	2012	1.25±0.20	±20%	C2012X6S1A156M125AC	C2012X6S0J156M125AB	
-	3216	1.60±0.20	±20%	C3216X6S1A156M160AB	C3216X6S0J156M160AB	
	0040	0.85±0.15	±20%		C2012X6S0J226M085AC	C2012X6S0G226M085A0
22 µF	2012	1.25±0.20	±20%	C2012X6S1A226M125AC	C2012X6S0J226M125AB	C2012X6S0G226M125A0
-	3216	1.60±0.20	±20%	C3216X6S1A226M160AB	C3216X6S0J226M160AB	
	2012	1.25±0.20	±20%			C2012X6S0G336M125A
33 μF -	3216	1.60±0.20	±20%	C3216X6S1A336M160AC	C3216X6S0J336M160AB	
	2012	1.25±0.20	±20%			C2012X6S0G476M125A
47 μF	3216	1.60±0.20	±20%	C3216X6S1A476M160AC	C3216X6S0J476M160AB	C3216X6S0G476M160A
	3225	2.50±0.30	±20%		C3225X6S0J476M250AC	
68 µF	3216	1.60+0.30, -0.10	±20%			C3216X6S0G686M160A
	3216	1.60+0.30, -0.10	±20%			C3216X6S0G107M160A
100 μF	3225	2.50±0.30	±20%		C3225X6S0J107M250AC	C3225X6S0G107M250A
• -	4532	2.80±0.30	±20%		C4532X6S0J107M280KC	

#### Class 2 (Temperature Stable)

Capacitance	Size	Thickness	Capacitance	Catalog Number	
Capacitance	Size	(mm)	Tolerance	Rated Voltage Edc: 50V	Rated Voltage Edc: 25V
400 F	0000	0.20+0.02	±10%		C0603X7R1E101K030BA
100 pF	0603	0.30±0.03	±20%		C0603X7R1E101M030BA
150 55	0603	0.2010.03	±10%		C0603X7R1E151K030BA
150 pF	0603	0.30±0.03	±20%		C0603X7R1E151M030BA
	0603	0.2010.02	±10%		C0603X7R1E221K030BA
220 - 5	0603	0.30±0.03	±20%		C0603X7R1E221M030BA
220 pF —	1005	0.50±0.05	±10%	C1005X7R1H221K050BA	
	1005	0.50±0.05	±20%	C1005X7R1H221M050BA	
	0603	0.30±0.03	±10%		C0603X7R1E331K030BA
220 - 5	0003	0.30±0.03	±20%		C0603X7R1E331M030BA
330 pF —	1005	0.50±0.05	±10%	C1005X7R1H331K050BA	
	1005	0.50±0.05	±20%	C1005X7R1H331M050BA	
	0603	0.30±0.03	±10%		C0603X7R1E471K030BA
470 -	0003	0.30±0.03	±20%		C0603X7R1E471M030BA
470 pF —	1005	0.50.0.05	±10%	C1005X7R1H471K050BA	
	1005	0.50±0.05	±20%	C1005X7R1H471M050BA	

 $<sup>\</sup>blacksquare$  The gray items are non-recommended products in the new design.

<sup>■</sup> The red items are products of the production will be stopped. Please confirm the schedule on product details information.



# **Capacitance Range Table**

### Class 2 (Temperature Stable)

Capacitance	Size	Thickness (mm)	Capacitance Tolerance	Catalog Number	Pated Valtage Ede: 251/	Pated Valtage Ede: 251/	Pated Valtage Edg. 101
		(111111)	±10%	Rated Voltage Edc: 50V	Rated Voltage Edc: 35V	Rated Voltage Edc: 25V C0603X7R1E681K030BA	Rated Voltage Edc: 16V
	0603	0.30±0.03	±10%			C0603X7R1E681M030BA	
680 pF —			±10%	C1005X7R1H681K050BA		COOCSATITIEGG TWOSOBA	
	1005	0.50±0.05	±20%	C1005X7R1H681M050BA			
			±10%	01003X/1(11100110000DA		C0603X7R1E102K030BA	
	0603	0.30±0.03	±20%			C0603X7R1E102M030BA	
1 nF —			±10%	C1005X7R1H102K050BA		C1005X7R1E102K050BA	
	1005	0.50±0.05	±20%	C1005X7R1H102M050BA			
			±10%			C0603X7R1E152K030BA	
	0603	0.30±0.03	±20%			C0603X7R1E152M030BA	
1.5 nF —	1005	0.50.005	±10%	C1005X7R1H152K050BA			
	1005	0.50±0.05	±20%	C1005X7R1H152M050BA			
	0000	0.2010.02	±10%			C0603X7R1E222K030BA	C0603X7R1C222K030B
22.5	0603	0.30±0.03	±20%			C0603X7R1E222M030BA	C0603X7R1C222M030B
2.2 nF —	1005	0.5010.05	±10%	C1005X7R1H222K050BA			
	1005	0.50±0.05	±20%	C1005X7R1H222M050BA			
	0603	0.30+0.03	±10%			C0603X7R1E332K030BA	
3.3 nF —	0003	0.30±0.03	±20%			C0603X7R1E332M030BA	
3.3 IIF -	1005	0.50±0.05	±10%	C1005X7R1H332K050BA			
	1005	0.3010.03	±20%	C1005X7R1H332M050BA			
	0603	0.30±0.03	±10%				C0603X7R1C472K030B
4.7 nF —	0000	0.00±0.00	±20%				C0603X7R1C472M030B
4.7 111	1005	0.50±0.05	±10%	C1005X7R1H472K050BA			
	1000	0.0020.00	±20%	C1005X7R1H472M050BA			
6.8 nF	1005	0.50±0.05	±10%	C1005X7R1H682K050BA			
0.0 111	1000	0.0020.00	±20%	C1005X7R1H682M050BA			
	1005	0.50±0.05	±10%	C1005X7R1H103K050BB	C1005X7R1V103K050BB	C1005X7R1E103K050BB	C1005X7R1C103K050B
10 nF	0.0020.00	±20%	C1005X7R1H103M050BB	C1005X7R1V103M050BB	C1005X7R1E103M050BB		
1608	0.80±0.10	±10%	C1608X7R1H103K080AA		C1608X7R1E103K080AA		
			±20%	C1608X7R1H103M080AA			
	1005	0.50±0.05	±10%	C1005X7R1H153K050BB	C1005X7R1V153K050BB		
15 nF —			±20%	C1005X7R1H153M050BB	C1005X7R1V153M050BB		
	1608	0.80±0.10	±10%	C1608X7R1H153K080AA			
			±20%	C1608X7R1H153M080AA			
	1005	0.50±0.05	±10%	C1005X7R1H223K050BB	C1005X7R1V223K050BB	C1005X7R1E223K050BB	
22 nF -			±20%	C1005X7R1H223M050BB	C1005X7R1V223M050BB	C1005X7R1E223M050BB	
	1608	0.80±0.10	±10%	C1608X7R1H223K080AA			
			±20%	C1608X7R1H223M080AA	C400EV7D4V222V0E0DD		
	1005	0.50±0.05	±10% ±20%	C1005X7R1H333K050BB	C1005X7R1V333K050BB C1005X7R1V333M050BB		
33 nF —				C1005X7R1H333M050BB	C 1005X/R IV333M050BB		
	1608	0.80±0.10	±10% ±20%	C1608X7R1H333K080AA C1608X7R1H333M080AA			
			±10%	C1005X7R1H473K050BB	C1005X7R1V473K050BB	C1005X7R1E473K050BC	C1005X7R1C473K050B
	1005	0.50±0.05	±20%	C1005X7R1H473M050BB	C1005X7R1V473M050BB	C1005X7R1E473M050BC	C1005X7R1C473M050B
47 nF —			±10%	C1608X7R1H473K080AA	01003X71(1V473W030BB	01003X7111E473W030B0	01003/(1110475)(1030B
	1608	0.80±0.10	±20%	C1608X7R1H473M080AA			
			±10%	C1005X7R1H683K050BB	C1005X7R1V683K050BB	C1005X7R1E683K050BB	C1005X7R1C683K050B
	1005	0.50±0.05	±20%	C1005X7R1H683M050BB	C1005X7R1V683M050BB	C1005X7R1E683M050BB	C1005X7R1C683M050B
68 nF —			±10%	C1608X7R1H683K080AA	0.000.01000DD	5.000.1111E000W000DD	0.000X11X10000IVI000D
	1608	0.80±0.10	±20%	C1608X7R1H683M080AA			
			±10%	C1005X7R1H104K050BB	C1005X7R1V104K050BB	C1005X7R1E104K050BB	C1005X7R1C104K050B
	1005	0.50±0.05	±20%	C1005X7R1H104M050BB	C1005X7R1V104M050BB	C1005X7R1E104M050BB	C1005X7R1C104M050B
			±10%	C1608X7R1H104K080AA		C1608X7R1E104K080AA	
100 nF	1608	0.80±0.10	±20%	C1608X7R1H104M080AA		C1608X7R1E104M080AA	
-			±10%	C2012X7R1H104K085AA			
	2012	0.85±0.15	±20%	C2012X7R1H104M085AA			
			±10%		C1005X7R1V154K050BC	C1005X7R1E154K050BB	C1005X7R1C154K050B
	1005	0.50±0.05	±20%		C1005X7R1V154M050BC	C1005X7R1E154M050BB	C1005X7R1C154M050B
450 -	1077	0.05 - 11	±10%	C1608X7R1H154K080AB	C1608X7R1V154K080AB	C1608X7R1E154K080AA	
150 nF	1608	0.80±0.10	±20%	C1608X7R1H154M080AB	C1608X7R1V154M080AB	C1608X7R1E154M080AA	
_			±10%	C2012X7R1H154K085AA			
	2012	0.85±0.15	±20%	C2012X7R1H154M085AA			

<sup>■</sup> The gray items are non-recommended products in the new design.

hease be sure to request delivery specifications that provide further details on the features and specifications of the products for proper and safe use. Please note that the contents may change without any prior notice due to reasons such as upgrading.



# **Capacitance Range Table**

### Class 2 (Temperature Stable)

Capacitance	Size	Thickness	Capacitance	Catalog Number	D-1-11/-H- E1 05/	D-4-41/-H- E1 051	D-4-41/-H
·		(mm)	Tolerance	Rated Voltage Edc: 50V	Rated Voltage Edc: 35V	Rated Voltage Edc: 25V	Rated Voltage Edc: 16V
150 nF	2012	1.25±0.20	±10%	C2012X7R1H154K125AA			
			±20%	C2012X7R1H154M125AA			
	1005	0.50±0.05	±10%		C1005X7R1V224K050BC	C1005X7R1E224K050BB	C1005X7R1C224K050BC
_			±20%		C1005X7R1V224M050BC	C1005X7R1E224M050BB	C1005X7R1C224M050BC
	1608	0.80±0.10	±10%	C1608X7R1H224K080AB	C1608X7R1V224K080AB	C1608X7R1E224K080AC	C1608X7R1C224K080AC
220 nF -			±20%	C1608X7R1H224M080AB	C1608X7R1V224M080AB	C1608X7R1E224M080AC	C1608X7R1C224M080AC
220	2012	1.25±0.20	±10%	C2012X7R1H224K125AA			
_	20.2	1.2020.20	±20%	C2012X7R1H224M125AA			
	3216	1.15±0.15	±10%	C3216X7R1H224K115AA			
	0210	1.1020.10	±20%	C3216X7R1H224M115AA			
	1608	0.80±0.10	±10%	C1608X7R1H334K080AC	C1608X7R1V334K080AB	C1608X7R1E334K080AC	C1608X7R1C334K080AC
_	1000	0.00±0.10	±20%	C1608X7R1H334M080AC	C1608X7R1V334M080AB	C1608X7R1E334M080AC	C1608X7R1C334M080AC
330 nF	2012	1.25±0.20	±10%	C2012X7R1H334K125AA			
330 HF	2012	1.25±0.20	±20%	C2012X7R1H334M125AA			
_	2040	4.00+0.00	±10%	C3216X7R1H334K160AA			
	3216	1.60±0.20	±20%	C3216X7R1H334M160AA			
	4000	0.00.0.40	±10%	C1608X7R1H474K080AC	C1608X7R1V474K080AB	C1608X7R1E474K080AB	C1608X7R1C474K080AC
	1608	0.80±0.10	±20%	C1608X7R1H474M080AC	C1608X7R1V474M080AB	C1608X7R1E474M080AB	C1608X7R1C474M080AC
-	0010	4.05.0.00	±10%	C2012X7R1H474K125AB	C2012X7R1V474K125AB	C2012X7R1E474K125AA	
470 nF	2012	1.25±0.20	±20%	C2012X7R1H474M125AB	C2012X7R1V474M125AB	C2012X7R1E474M125AA	
-			±10%	C3216X7R1H474K160AA			
	3216	1.60±0.20	±20%	C3216X7R1H474M160AA			
			±10%		C1608X7R1V684K080AC	C1608X7R1E684K080AB	C1608X7R1C684K080AC
	1608	0.80±0.10	±20%		C1608X7R1V684M080AC	C1608X7R1E684M080AB	C1608X7R1C684M080AC
-			±10%	C2012X7R1H684K125AB	C2012X7R1V684K125AB	C2012X7R1E684K125AB	C2012X7R1C684K125AA
680 nF	2012	1.25±0.20	±20%	C2012X7R1H684M125AB	C2012X7R1V684M125AB	C2012X7R1E684M125AB	C2012X7R1C684M125AA
-			±10%	C3216X7R1H684K160AA	02012X1111V004W120XB	02012X11112004W1120XB	020127(11(10004)(11207)(1
	3216	1.60±0.20	±20%	C3216X7R1H684M160AA			
			±20%	C3210X/1(111004W1100AA	C1609V7P1V10FV090AC	C1608X7R1E105K080AB	C1608X7R1C105K080AC
	1608	0.80±0.10			C1608X7R1V105K080AC		
=			±20%	00040V7D4H405K00540	C1608X7R1V105M080AC	C1608X7R1E105M080AB	C1608X7R1C105M080AC
		0.85±0.15	±10%	C2012X7R1H105K085AC	C2012X7R1V105K085AB	C2012X7R1E105K085AB	C2012X7R1C105K085AC
	2012		±20%	C2012X7R1H105M085AC	C2012X7R1V105M085AB	C2012X7R1E105M085AB	C2012X7R1C105M085AC
		1.25±0.20	±10%	C2012X7R1H105K125AB	C2012X7R1V105K125AB	C2012X7R1E105K125AB	C2012X7R1C105K125AA
-			±20%	C2012X7R1H105M125AB	C2012X7R1V105M125AB	C2012X7R1E105M125AB	C2012X7R1C105M125AA
1 µF		0.85±0.15	±10%			C3216X7R1E105K085AA	
·	3216		±20%			C3216X7R1E105M085AA	
		1.60±0.20	±10%	C3216X7R1H105K160AB		C3216X7R1E105K160AA	
_			±20%	C3216X7R1H105M160AB		C3216X7R1E105M160AA	
	3225	1.60±0.20	±10%	C3225X7R1H105K160AA			
_	OZZO	1.0010.20	±20%	C3225X7R1H105M160AA			
	4532	1.60±0.20	±10%	C4532X7R1H105K160KA			
	4002	1.0010.20	±20%	C4532X7R1H105M160KA			
	2012	1.25±0.20	±10%	C2012X7R1H155K125AC	C2012X7R1V155K125AB	C2012X7R1E155K125AC	C2012X7R1C155K125AB
	2012	1.25±0.20	±20%	C2012X7R1H155M125AC	C2012X7R1V155M125AB	C2012X7R1E155M125AC	C2012X7R1C155M125AB
4 55	2040	4.00+0.00	±10%	C3216X7R1H155K160AB	C3216X7R1V155K160AB	C3216X7R1E155K160AA	
1.5 µF	3216	1.60±0.20	±20%	C3216X7R1H155M160AB	C3216X7R1V155M160AB	C3216X7R1E155M160AA	
_	0005	0.00.000	±10%	C3225X7R1H155K200AA			
	3225	2.00±0.20	±20%	C3225X7R1H155M200AA			
			±10%		C2012X7R1V225K085AC	C2012X7R1E225K085AB	C2012X7R1C225K085AB
		0.85±0.15	±20%		C2012X7R1V225M085AC	C2012X7R1E225M085AB	C2012X7R1C225M085AB
	2012	-	±10%	C2012X7R1H225K125AC	C2012X7R1V225K125AB	C2012X7R1E225K125AB	C2012X7R1C225K125AB
		1.25±0.20	±20%	C2012X7R1H225M125AC	C2012X7R1V225M125AB	C2012X7R1E225M125AB	C2012X7R1C225M125AB
-			±10%	C3216X7R1H225K160AB	C3216X7R1V225K160AB	C3216X7R1E225K160AA	
2.2 µF	3216	1.60±0.20	±20%	C3216X7R1H225M160AB	C3216X7R1V225M160AB	C3216X7R1E225M160AA	
ے۔ کہ ا			±20% ±10%		SOZ TOXT IX T Z Z SWITOUAD	JOE TOXTICLEZ JIM TOURA	
	3225	2.00±0.20		C3225X7R1H225K200AB			
	3223	2 50 - 0 20	±20%	C3225X7R1H225M200AB			
-		2.50±0.30	±10%	C3225X7R1H225K250AB			
	4532	1.60±0.20	±10%	C4532X7R1H225K160KA			
			±20%	C4532X7R1H225M160KA			

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# **Capacitance Range Table**

### Class 2 (Temperature Stable)

Capacitance	Size	Thickness (mm)	Capacitance _ Tolerance	Catalog Number Rated Voltage Edc: 50V	Rated Voltage Edc: 35V	Rated Voltage Edc: 25V	Rated Voltage Edc: 16V
		. ,	±10%	Nated Voltage Edc. 50 V	C2012X7R1V335K125AC	C2012X7R1E335K125AB	C2012X7R1C335K125AB
	2012	1.25±0.20	±20%		C2012X7R1V335M125AC	C2012X7R1E335M125AB	C2012X7R1C335M125AE
_			±10%	C3216X7R1H335K160AC	C3216X7R1V335K160AB	C3216X7R1E335K160AC	
	3216	1.60±0.20	±20%	C3216X7R1H335M160AC	C3216X7R1V335M160AB	C3216X7R1E335M160AC	
_			±10%	00210741111000111100740	00210/11/17000/11/00/12	C3225X7R1E335K160AA	
3.3 µF		1.60±0.20	±20%			C3225X7R1E335M160AA	
	3225	-	±10%	C3225X7R1H335K250AB		3322371111233311133731	
		2.50±0.30	±20%	C3225X7R1H335M250AB			
_			±10%	C4532X7R1H335K200KA			
	4532	2.00±0.20	±20%	C4532X7R1H335M200KA			
			±10%	3 1002) (1 1 1 1 1 1 0 0 0 1 1 2 0 1 1 1 1	C2012X7R1V475K125AC	C2012X7R1E475K125AB	C2012X7R1C475K125AI
	2012	1.25±0.20	±20%		C2012X7R1V475M125AC	C2012X7R1E475M125AB	C2012X7R1C475M125A
_			±10%		C3216X7R1V475K085AC	C3216X7R1E475K085AB	C3216X7R1C475K085Al
		0.85±0.15	±20%		C3216X7R1V475M085AC	C3216X7R1E475M085AB	C3216X7R1C475M085A
	3216		±10%	C3216X7R1H475K160AC	C3216X7R1V475K160AB	C3216X7R1E475K160AC	C3216X7R1C475K160AI
		1.60±0.20	±20%	C3216X7R1H475M160AC	C3216X7R1V475M160AB	C3216X7R1E475M160AC	C3216X7R1C475M160A
_			±10%	03210771114731110070	OSZ TOXT TT T T SWITOOAD	C3225X7R1E475K200AA	03210X1110473111100A
4.7 μF		2.00±0.20	±20%			C3225X7R1E475M200AA	
4.7 µF	3225			C3225X7R1H475K250AB		C3223X7K1E473WI20UAA	
		2.50±0.30	±10% ±20%				
_				C3225X7R1H475M250AB			
	4532	2.00±0.20	±10% ±20%	C4532X7R1H475K200KB		C4532X7R1E475M200KA	
_				C4532X7R1H475M200KB		C4532X7R1E475IVI20UKA	
	F7F0	2.00±0.20	±10%	C5750X7R1H475K200KA			
	5750	2.00+0.20	±20%	C5750X7R1H475M200KA			
		2.80±0.30	±20%	C5750X7R1H475M280KA	00040777470057440040	00040VZD4E00EV400AD	00040V7D4000FK400A
	3216	1.60±0.20	±10%		C3216X7R1V685K160AC	C3216X7R1E685K160AB	C3216X7R1C685K160A
_			±20%		C3216X7R1V685M160AC	C3216X7R1E685M160AB	C3216X7R1C685M160A
	3225	2.50±0.30	±10%			C3225X7R1E685K250AB	
6.8 µF —			±20%	0.4500\/75.41.10051/0501/5		C3225X7R1E685M250AB	
·	4532	2 2.50±0.30	±10%	C4532X7R1H685K250KB			
_			±20%	C4532X7R1H685M250KB			
	5750	2.50±0.30	±10%	C5750X7R1H685K250KA			
			±20%	C5750X7R1H685M250KA			
	3216	1.60±0.20	±10%		C3216X7R1V106K160AC	C3216X7R1E106K160AB	C3216X7R1C106K160A0
_			±20%		C3216X7R1V106M160AC	C3216X7R1E106M160AB	C3216X7R1C106M160A
		2.00±0.20	±10%				C3225X7R1C106K200AE
	3225		±20%				C3225X7R1C106M200Al
	0220	2.50±0.30	±10%			C3225X7R1E106K250AC	
_		2.0020.00	±20%	C3225X7R1H106M250AC		C3225X7R1E106M250AC	
10 μF		2.30±0.20	±10%				C4532X7R1C106K230K/
	4532		±20%				C4532X7R1C106M230K/
	1002	2.50±0.30	±10%			C4532X7R1E106K250KA	
_		2.0010.00	±20%			C4532X7R1E106M250KA	
		2.00±0.20	±20%			C5750X7R1E106M200KA	
	5750	2.30±0.20	±10%	C5750X7R1H106K230KB			
		2.3010.20	±20%	C5750X7R1H106M230KB			
	3225	2.50±0.30	±20%				C3225X7R1C156M250A
15	4522	2.50±0.30	±20%			C4532X7R1E156M250KC	
15 µF	4532	2.80±0.30	±20%			C4532X7R1E156M280KB	
_	5750	2.30±0.20	±20%			C5750X7R1E156M230KA	
	2005	2.50+0.20	±10%				C3225X7R1C226K250A0
	3225	2.50±0.30	±20%				C3225X7R1C226M250A
_		2.00±0.20	±20%				C4532X7R1C226M200K
22 µF	4532	2.30±0.20	±20%				C4532X7R1C226M230K
		2.50±0.30	±20%			C4532X7R1E226M250KC	
_		2.50±0.30	±20%			C5750X7R1E226M250KA	
	5750	2.80±0.30	±20%			, J. J	C5750X7R1C226M280K
	4532	2.50±0.30	±20%				C4532X7R1C336M250K
33 µF —	5750	2.00±0.20	±20%				C5750X7R1C336M200KI
47 µF	5750	2.30±0.20	±20%				C5750X7R1C476M230KI
+1 µF	3730	Z.JUIU.ZU	±∠U /0				33730X71X10470IVIZ30KE

hease be sure to request delivery specifications that provide further details on the features and specifications of the products for proper and safe use. Please note that the contents may change without any prior notice due to reasons such as upgrading.



# **Capacitance Range Table**

### Class 2 (Temperature Stable)

Temperature Characteristics: X7R(-55 to +125  $^{\circ}\text{C}$  , ±15%)

Capacitance	Size	Thickness	Capacitance _	Catalog Number		
Оприоналюе	OIZO	(mm)	Tolerance	Rated Voltage Edc: 10V	Rated Voltage Edc: 6.3V	Rated Voltage Edc: 4V
100 pF	0402	0.20±0.02	±10%	C0402X7R1A101K020BC	C0402X7R0J101K020BC	C0402X7R0G101K020BC
р.	0.02	0.2020.02	±20%	C0402X7R1A101M020BC	C0402X7R0J101M020BC	C0402X7R0G101M020BC
150 pF	0402	0.20±0.02	±10%	C0402X7R1A151K020BC	C0402X7R0J151K020BC	C0402X7R0G151K020BC
100 рі	0402	0.2010.02	±20%	C0402X7R1A151M020BC	C0402X7R0J151M020BC	C0402X7R0G151M020BC
220 pF	0402	0.20±0.02	±10%	C0402X7R1A221K020BC	C0402X7R0J221K020BC	C0402X7R0G221K020BC
220 pi	0402	0.2010.02	±20%	C0402X7R1A221M020BC	C0402X7R0J221M020BC	C0402X7R0G221M020BC
330 pF	0402	0.20±0.02	±10%	C0402X7R1A331K020BC	C0402X7R0J331K020BC	C0402X7R0G331K020BC
330 pr	0402	0.20±0.02	±20%	C0402X7R1A331M020BC	C0402X7R0J331M020BC	C0402X7R0G331M020BC
470 pF	0402	0.20±0.02	±10%	C0402X7R1A471K020BC	C0402X7R0J471K020BC	C0402X7R0G471K020BC
470 pr	0402	0.20±0.02	±20%	C0402X7R1A471M020BC	C0402X7R0J471M020BC	C0402X7R0G471M020BC
690 5	0402	0.2010.02	±10%	C0402X7R1A681K020BC	C0402X7R0J681K020BC	C0402X7R0G681K020BC
680 pF	0402	0.20±0.02	±20%	C0402X7R1A681M020BC	C0402X7R0J681M020BC	C0402X7R0G681M020BC
4 5	0.400	0.2010.02	±10%	C0402X7R1A102K020BC		
1 nF	0402	0.20±0.02	±20%	C0402X7R1A102M020BC		
45.5	0.400	0.00.000	±10%	C0402X7R1A152K020BC		
1.5 nF	0402	0.20±0.02	±20%	C0402X7R1A152M020BC		
00 5	0000	0.00.000	±10%	C0603X7R1A222K030BA	C0603X7R0J222K030BA	
2.2 nF	0603	0.30±0.03	±20%	C0603X7R1A222M030BA	C0603X7R0J222M030BA	
			±10%	C0603X7R1A472K030BA	C0603X7R0J472K030BA	
4.7 nF	0603	0.30±0.03	±20%	C0603X7R1A472M030BA	C0603X7R0J472M030BA	
			±10%	C0603X7R1A103K030BA	C0603X7R0J103K030BA	
10 nF	0603	0.30±0.03	±20%	C0603X7R1A103M030BA	C0603X7R0J103M030BC	
100 nF	1005	0.50±0.05	±10%	C1005X7R1A104K050BB		
			±10%	C1005X7R1A154K050BB		
150 nF	1005	0.50±0.05	±20%	C1005X7R1A154M050BB		
			±10%	C1005X7R1A224K050BB		
220 nF	1005	0.50±0.05	±20%	C1005X7R1A224M050BB		
			±10%	C1608X7R1A684K080AC		
680 nF	1608	0.80+0.15/-0.10	±20%	C1608X7R1A684M080AC		
			±10%	C1608X7R1A105K080AC		
1 µF	1608	0.80+0.15/-0.10	±20%	C1608X7R1A105M080AC		
			±10%	C1608X7R1A155K080AC	C1608X7R0J155K080AB	
1.5 µF	1608	0.80±0.10	±20%	C1608X7R1A155M080AC	C1608X7R0J155M080AB	
			±10%	C1608X7R1A225K080AC	C1608X7R0J225K080AB	
2.2 μF	1608	0.80±0.10	±20%	C1608X7R1A225M080AC	C1608X7R0J225M080AB	
			±10%	C2012X7R1A335K125AC		
3.3 µF	2012	1.25±0.20	±20%	C2012X7R1A335M125AC		
			±10%	C2012X7R1A475K085AC	C2012X7R0J475K085AB	
		0.85±0.15	±20%	C2012X7R1A475M085AC	C2012X7R0J475M085AB	
4.7 μF	2012		±10%	C2012X7R1A475K125AC		
		1.25±0.20	±20%	C2012X7R1A475M125AC		
			±10%	C2012X7R1A685K125AC	C2012X7R0J685K125AB	
6.8 µF	2012	1.25±0.20	±20%	C2012X7R1A685M125AC	C2012X7R0J685M125AB	
			±10%	C2012X7R1A106K125AC	C2012X7R0J106K125AB	
	2012	1.25±0.20	±20%	C2012X7R1A106M125AC	C2012X7R0J106M125AB	
_			±10%	C3216X7R1A106K085AC	C3216X7R0J106K085AB	
10 µF		0.85±0.15	±20%	C3216X7R1A106M085AC	C3216X7R0J106M085AB	
	3216	-	±10%	C3216X7R1A106K160AC	COL TOXT TOO TOO WOODAD	
		1.60±0.20	±20%	C3216X7R1A106M160AC		
			±20%	C3225X7R1A226K230AC		
22 µF	3225	2.30±0.20	±10%	C3225X7R1A226M230AC		
			±2U /0	OUZZUNT N IAZZUIVIZUUAU		

<sup>■</sup> The gray items are non-recommended products in the new design.



# **Capacitance Range Table**

### Class 2 (Temperature Stable)

Capacitance	Size	Thickness (mm)	Capacitance Tolerance	Catalog Number Rated Voltage Edc: 50V	Rated Voltage Edc: 16V	Rated Voltage Edc: 10V	Rated Voltage Edc: 6.3V	Rated Voltage Edc: 4V
22 nF	0603	0.30±0.03	±10%			C0603X7S1A223K030BC	C0603X7S0J223K030BB	
			±20%			C0603X7S1A223M030BC	C0603X7S0J223M030BB	
47 nF	0603	0.30±0.03	±10%			C0603X7S1A473K030BC	C0603X7S0J473K030BB	
			±20%			C0603X7S1A473M030BC	C0603X7S0J473M030BB	
100 nF	0603	0.30±0.03	±10%			C0603X7S1A104K030BC		C0603X7S0G104K030E
			±20%			C0603X7S1A104M030BC		C0603X7S0G104M030E
150 nF	0603	0.30±0.05	±10%				C0603X7S0J154K030BC	
			±20%				C0603X7S0J154M030BC	
		0.30±0.03	±10%					C0603X7S0G224K030E
220 nF	0603		±20%					C0603X7S0G224M030I
		0.30±0.05	±10%				C0603X7S0J224K030BC	
			±20%				C0603X7S0J224M030BC	
330 nF	1005	0.50±0.05	±10%		C1005X7S1C334K050BC	C1005X7S1A334K050BC	C1005X7S0J334K050BC	
			±20%		C1005X7S1C334M050BC	C1005X7S1A334M050BC	C1005X7S0J334M050BC	
470 nF	1005	0.50±0.05	±10%		C1005X7S1C474K050BC	C1005X7S1A474K050BC	C1005X7S0J474K050BB	
			±20%		C1005X7S1C474M050BC	C1005X7S1A474M050BC	C1005X7S0J474M050BB	
680 nF	1005	0.50±0.05	±10%			C1005X7S1A684K050BC	C1005X7S0J684K050BC	C1005X7S0G684K050I
			±20%			C1005X7S1A684M050BC	C1005X7S0J684M050BC	C1005X7S0G684M050
1 µF	1005	0.50±0.05	±10%			C1005X7S1A105K050BC	C1005X7S0J105K050BC	C1005X7S0G105K050I
			±20%			C1005X7S1A105M050BC	C1005X7S0J105M050BC	C1005X7S0G105M050
		0.50+0.15/-0.10	±10%			C1005X7S1A155K050BC		
			±20%			C1005X7S1A155M050BC		
	1005	0.50±0.05	±10%					C1005X7S0G155K050I
1.5 µF	.000		±20%					C1005X7S0G155M050I
1.5 μι		0.50±0.10	±10%				C1005X7S0J155K050BC	
_		0.0010.10	±20%				C1005X7S0J155M050BC	
	1608	0.80±0.10	±10%		C1608X7S1C155K080AC			
	1000	0.0010.10	±20%		C1608X7S1C155M080AC			
		0.50±0.10	±10%				C1005X7S0J225K050BC	
		0.3010.10	±20%				C1005X7S0J225M050BC	
	1005	0.50+0.15/-0.10	±10%			C1005X7S1A225K050BC		
2.2 µF	1005	0.5010.15/-0.10	±20%			C1005X7S1A225M050BC		
2.2 μι		0.50±0.05	±10%					C1005X7S0G225K050E
		0.30±0.03	±20%					C1005X7S0G225M050B
	1608	0.80±0.10	±10%		C1608X7S1C225K080AC	C1608X7S1A225K080AC	C1608X7S0J225K080AB	
	1000	0.60±0.10	±20%		C1608X7S1C225M080AC	C1608X7S1A225M080AC	C1608X7S0J225M080AB	
		0.80±0.10	±10%				C1608X7S0J335K080AC	C1608X7S0G335K080A
22	1600	0.00±0.10	±20%				C1608X7S0J335M080AC	C1608X7S0G335M080
3.3 µF	1608	0.0010.00 0.40	±10%			C1608X7S1A335K080AC		
		0.80+0.20, -0.10	±20%			C1608X7S1A335M080AC		
		0.0010.40	±10%				C1608X7S0J475K080AC	C1608X7S0G475K080A
47	1000	0.80±0.10	±20%				C1608X7S0J475M080AC	C1608X7S0G475M080
4.7 μF	1608	0.0010.00 0.40	±10%			C1608X7S1A475K080AC		
		0.80+0.20, -0.10	±20%			C1608X7S1A475M080AC		
	4000	0.00.000 0.40	±10%				C1608X7S0J685K080AC	C1608X7S0G685K080A
	1608	0.80+0.20, -0.10	±20%				C1608X7S0J685M080AC	C1608X7S0G685M080
-	00.10	4.05:0.00	±10%		C2012X7S1C685K125AC			
6.8 µF	2012	1.25±0.20	±20%		C2012X7S1C685M125AC			
_	0005	0.50:0.00	±10%	C3225X7S1H685K250AB				
	3225	2.50±0.30	±20%	C3225X7S1H685M250AB				
	1608	0.80+0.20, -0.10	±20%	· · · · · · · · · · · · · · · · · · ·			C1608X7S0J106M080AC	C1608X7S0G106M080A
_		,	±10%				C2012X7S0J106K085AC	C2012X7S0G106K085A
		0.85±0.15	±20%				C2012X7S0J106M085AC	C2012X7S0G106M085/
10 μF	2012		±10%		C2012X7S1C106K125AC			
		1.25±0.20	±20%		C2012X7S1C106M125AC			
_			±10%	C3225X7S1H106K250AB				
	3225	2.50±0.30	±20%	C3225X7S1H106M250AB				
	2012	1.25±0.20	±20%	SSZEOWI O II TIOOWIZOOMD		C2012X7S1A156M125AC	C2012X7S0J156M125AC	C2012X7S0G156M125
15 μF -	3216	1.60±0.20	±20%			C3216X7S1A156M160AC	C3216X7S0J156M160AB	320 12/1/ 000 100W 120
	2012	1.25±0.20	±20%			C2012X7S1A226M125AC	C2012X7S0J226M125AC	C2012X7S0G226M125
22 μF -	3216	1.60±0.20	±20% ±20%					02012A1000220W120
	3216					C3216X7S1A226M160AC	C3216X7S0J226M160AB	C2216V7C0C226M400
22	JZ ID	1.60±0.20	±20%				C3216X7S0J336M160AC	C3216X7S0G336M160
33 µF	3216	1.60±0.20	±20%				C3216X7S0J476M160AC	C3216X7S0G476M160A

 $<sup>\</sup>blacksquare$  The gray items are non-recommended products in the new design.