

# Ceramic Capacitors

For Mid Voltage  
SMD

## C Series

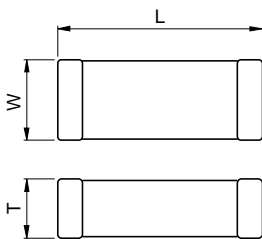
### FEATURES

- The unique design structure for mid voltage enables a compact size with high voltage resistance.
- Rated voltage Edc: 100, 250 and 630V.
- C3225, C4532 and C5750 types are specific to reflow soldering.

### APPLICATIONS

Snapper circuits for switching power supply, ringer circuits for telephone and modem, or other general high voltage circuits.

### SHAPES AND DIMENSIONS



Type	Dimensions in mm		
	L	W	T
C1608	1.6±0.1	0.8±0.1	0.8±0.1
C2012	2.0±0.2	1.25±0.2	0.6±0.1 0.85±0.15 1.25±0.2
C3216	3.2±0.2	1.6±0.2	0.6±0.1 0.85±0.15 1.15±0.15 1.3±0.2 1.6±0.2
C3225	3.2±0.4	2.5±0.3	1.25±0.2 1.6±0.2 2.0±0.2
C4532	4.5±0.4	3.2±0.4	1.6±0.2 2.0±0.2 2.3±0.2 2.5±0.3 3.2±0.4
C5750	5.7±0.4	5.0±0.4	1.6±0.2 2.3±0.2

### PRODUCT IDENTIFICATION

C	2012	JB	2E	102	K	□
(1)	(2)	(3)	(4)	(5)	(6)	(7)

(1) Series name

(2) Dimensions

1608	1.6×0.8mm
2012	2.0×1.25mm
3216	3.2×1.6mm
3225	3.2×2.5mm
4532	4.5×3.2mm
5750	5.7×5.0mm

(3) Capacitance temperature characteristics

Class 1 (Temperature compensation)

Temperature characteristics	Capacitance change	Temperature range
C0G	0±30ppm/°C	-55 to +125°C

Class 2 (Temperature stable and general purpose)

Temperature characteristics	Capacitance change	Temperature range
X7R	±15%	-55 to +125°C

(4) Rated voltage Edc

2A	100V
2E	250V
2J	630V

(5) Nominal capacitance

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.

102	1000pF
333	33000pF
474	470000pF

(6) Capacitance tolerance

J	±5%
K	±10%
M	±20%

(7) Packaging style

T	Taping (reel)
B	Bulk

# Ceramic Capacitors

For Mid Voltage  
SMD

## C Series

### C1608 (EIA:CC0603) TYPE

#### CAPACITANCE RANGES:

#### CLASS 1 (TEMPERATURE COMPENSATION)

TEMPERATURE CHARACTERISTICS: C0G(0±30ppm/°C)

RATED VOLTAGE Edc: 250V

Capacitance (pF)	Tolerance	Thickness (mm)	Part No.
100	±5%	0.8±0.1	C1608C0G2E101J
	±10%	0.8±0.1	C1608C0G2E101K
120	±5%	0.8±0.1	C1608C0G2E121J
	±10%	0.8±0.1	C1608C0G2E121K
150	±5%	0.8±0.1	C1608C0G2E151J
	±10%	0.8±0.1	C1608C0G2E151K
180	±5%	0.8±0.1	C1608C0G2E181J
	±10%	0.8±0.1	C1608C0G2E181K
220	±5%	0.8±0.1	C1608C0G2E221J
	±10%	0.8±0.1	C1608C0G2E221K
270	±5%	0.8±0.1	C1608C0G2E271J
	±10%	0.8±0.1	C1608C0G2E271K
330	±5%	0.8±0.1	C1608C0G2E331J
	±10%	0.8±0.1	C1608C0G2E331K
390	±5%	0.8±0.1	C1608C0G2E391J
	±10%	0.8±0.1	C1608C0G2E391K
470	±5%	0.8±0.1	C1608C0G2E471J
	±10%	0.8±0.1	C1608C0G2E471K
560	±5%	0.8±0.1	C1608C0G2E561J
	±10%	0.8±0.1	C1608C0G2E561K
680	±5%	0.8±0.1	C1608C0G2E681J
	±10%	0.8±0.1	C1608C0G2E681K

#### CAPACITANCE RANGES:

#### CLASS 2

TEMPERATURE CHARACTERISTICS: X7R(±15%)

RATED VOLTAGE Edc:100V

Capacitance (pF)	Tolerance	Thickness (mm)	Part No.
1000	±10%	0.8±0.1	C1608X7R2A102K
	±20%	0.8±0.1	C1608X7R2A102M
1500	±10%	0.8±0.1	C1608X7R2A152K
	±20%	0.8±0.1	C1608X7R2A152M
2200	±10%	0.8±0.1	C1608X7R2A222K
	±20%	0.8±0.1	C1608X7R2A222M
3300	±10%	0.8±0.1	C1608X7R2A332K
	±20%	0.8±0.1	C1608X7R2A332M
4700	±10%	0.8±0.1	C1608X7R2A472K
	±20%	0.8±0.1	C1608X7R2A472M
6800	±10%	0.8±0.1	C1608X7R2A682K
	±20%	0.8±0.1	C1608X7R2A682M
10000	±10%	0.8±0.1	C1608X7R2A103K
	±20%	0.8±0.1	C1608X7R2A103M



RATED VOLTAGE Edc: 100V

Capacitance (pF)	Tolerance	Thickness (mm)	Part No.
100	±5%	0.8±0.1	C1608C0G2A101J
	±10%	0.8±0.1	C1608C0G2A101K
120	±5%	0.8±0.1	C1608C0G2A121J
	±10%	0.8±0.1	C1608C0G2A121K
150	±5%	0.8±0.1	C1608C0G2A151J
	±10%	0.8±0.1	C1608C0G2A151K
180	±5%	0.8±0.1	C1608C0G2A181J
	±10%	0.8±0.1	C1608C0G2A181K
220	±5%	0.8±0.1	C1608C0G2A221J
	±10%	0.8±0.1	C1608C0G2A221K
270	±5%	0.8±0.1	C1608C0G2A271J
	±10%	0.8±0.1	C1608C0G2A271K
330	±5%	0.8±0.1	C1608C0G2A331J
	±10%	0.8±0.1	C1608C0G2A331K
390	±5%	0.8±0.1	C1608C0G2A391J
	±10%	0.8±0.1	C1608C0G2A391K
470	±5%	0.8±0.1	C1608C0G2A471J
	±10%	0.8±0.1	C1608C0G2A471K
560	±5%	0.8±0.1	C1608C0G2A561J
	±10%	0.8±0.1	C1608C0G2A561K
680	±5%	0.8±0.1	C1608C0G2A681J
	±10%	0.8±0.1	C1608C0G2A681K
1000	±5%	0.8±0.1	C1608C0G2A102J
	±10%	0.8±0.1	C1608C0G2A102K
1200	±5%	0.8±0.1	C1608C0G2A122J
	±10%	0.8±0.1	C1608C0G2A122K

\* M tolerance is standard for Mid Voltage X7R capacitors.

• For more information about products with other capacitance or other data, please contact us.

# Ceramic Capacitors

## For Mid Voltage SMD

## C Series

### C2012 (EIA:CC0805) TYPE

#### CAPACITANCE RANGES:

#### CLASS 1 (TEMPERATURE COMPENSATION)

#### TEMPERATURE CHARACTERISTICS: C0G(0±30ppm/°C)

RATED VOLTAGE Edc: 250V

Capacitance (pF)	Tolerance	Thickness (mm)	Part No.
820	±5%	0.6±0.1	C2012C0G2E821J
	±10%	0.6±0.1	C2012C0G2E821K
1000	±5%	0.8±0.1	C2012C0G2E102J
	±10%	0.8±0.1	C2012C0G2E102K
1200	±5%	0.8±0.1	C2012C0G2E122J
	±10%	0.8±0.1	C2012C0G2E122K
1500	±5%	0.8±0.1	C2012C0G2E152J
	±10%	0.8±0.1	C2012C0G2E152K
1800	±5%	1.25±0.2	C2012C0G2E182J
	±10%	1.25±0.2	C2012C0G2E182K
2200	±5%	1.25±0.2	C2012C0G2E222J
	±10%	1.25±0.2	C2012C0G2E222K
2700	±5%	1.25±0.2	C2012C0G2E272J
	±10%	1.25±0.2	C2012C0G2E272K

RATED VOLTAGE Edc: 100V

Capacitance (pF)	Tolerance	Thickness (mm)	Part No.
1000	±5%	0.6±0.1	C2012C0G2A102J
	±10%	0.6±0.1	C2012C0G2A102K
1200	±5%	0.6±0.1	C2012C0G2A122J
	±10%	0.6±0.1	C2012C0G2A122K
1500	±5%	0.6±0.1	C2012C0G2A152J
	±10%	0.6±0.1	C2012C0G2A152K
1800	±5%	0.8±0.1	C2012C0G2A182J
	±10%	0.8±0.1	C2012C0G2A182K
2200	±5%	0.8±0.1	C2012C0G2A222J
	±10%	0.8±0.1	C2012C0G2A222K
2700	±5%	1.25±0.2	C2012C0G2A272J
	±10%	1.25±0.2	C2012C0G2A272K
3300	±5%	1.25±0.2	C2012C0G2A332K
	±10%	1.25±0.2	C2012C0G2A332M
3900	±5%	1.25±0.2	C2012C0G2A392K
	±10%	1.25±0.2	C2012C0G2A392M
4700	±5%	1.25±0.2	C2012C0G2A472K
	±10%	1.25±0.2	C2012C0G2A472M

#### CAPACITANCE RANGES:

#### CLASS 2

#### TEMPERATURE CHARACTERISTICS: X7R(±15%)

RATED VOLTAGE Edc:250V

Capacitance (pF)	Tolerance	Thickness (mm)	Part No.
1000	±10%	0.85±0.15	C2012X7R2E102K
	±20%	0.85±0.15	C2012X7R2E102M
1500	±10%	0.85±0.15	C2012X7R2E152K
	±20%	0.85±0.15	C2012X7R2E152M
2200	±10%	0.85±0.15	C2012X7R2E222K
	±20%	0.85±0.15	C2012X7R2E222M
3300	±10%	0.85±0.15	C2012X7R2E332K
	±20%	0.85±0.15	C2012X7R2E332M
4700	±10%	0.85±0.15	C2012X7R2E472K
	±20%	0.85±0.15	C2012X7R2E472M
6800	±10%	1.25±0.2	C2012X7R2E682K
	±20%	1.25±0.2	C2012X7R2E682M
10000	±10%	1.25±0.2	C2012X7R2E103K
	±20%	1.25±0.2	C2012X7R2E103M
15000	±10%	1.25±0.2	C2012X7R2E153K
	±20%	1.25±0.2	C2012X7R2E153M
22000	±10%	1.25±0.2	C2012X7R2E223K
	±20%	1.25±0.2	C2012X7R2E223M

RATED VOLTAGE Edc: 100V

Capacitance (pF)	Tolerance	Thickness (mm)	Part No.
1000	±10%	0.85±0.15	C2012X7R2A102K
	±20%	0.85±0.15	C2012X7R2A102M
1500	±10%	0.85±0.15	C2012X7R2A152K
	±20%	0.85±0.15	C2012X7R2A152M
2200	±10%	0.85±0.15	C2012X7R2A222K
	±20%	0.85±0.15	C2012X7R2A222M
3300	±10%	0.85±0.15	C2012X7R2A332K
	±20%	0.85±0.15	C2012X7R2A332M
4700	±10%	0.85±0.15	C2012X7R2A472K
	±20%	0.85±0.15	C2012X7R2A472M
6800	±10%	0.85±0.15	C2012X7R2A682K
	±20%	0.85±0.15	C2012X7R2A682M
10000	±10%	0.85±0.15	C2012X7R2A103K
	±20%	0.85±0.15	C2012X7R2A103M
15000	±10%	1.25±0.2	C2012X7R2A153K
	±20%	1.25±0.2	C2012X7R2A153M
22000	±10%	1.25±0.2	C2012X7R2A223K
	±20%	1.25±0.2	C2012X7R2A223M
33000	±10%	1.25±0.2	C2012X7R2A333K
	±20%	1.25±0.2	C2012X7R2A333M
47000	±10%	1.25±0.2	C2012X7R2A473K
	±20%	1.25±0.2	C2012X7R2A473M



- \* M tolerance is standard for Mid Voltage X7R capacitors.
- For more information about products with other capacitance or other data, please contact us.

# Ceramic Capacitors

## For Mid Voltage SMD

## C Series

### C3216 (EIA:CC1206) TYPE

#### CAPACITANCE RANGES:

#### CLASS 1 (TEMPERATURE COMPENSATION)

#### TEMPERATURE CHARACTERISTICS: C0G(0±30ppm/°C)

RATED VOLTAGE E<sub>dc</sub>: 630V

Capacitance (pF)	Tolerance	Thickness (mm)	Part No.
100	±5%	0.6±0.1	C3216C0G2J101J
	±10%	0.6±0.1	C3216C0G2J101K
120	±5%	0.6±0.1	C3216C0G2J121J
	±10%	0.6±0.1	C3216C0G2J121K
150	±5%	0.6±0.1	C3216C0G2J151J
	±10%	0.6±0.1	C3216C0G2J151K
180	±5%	0.6±0.1	C3216C0G2J181J
	±10%	0.6±0.1	C3216C0G2J181K
220	±5%	0.6±0.1	C3216C0G2J221J
	±10%	0.6±0.1	C3216C0G2J221K
270	±5%	0.6±0.1	C3216C0G2J271J
	±10%	0.6±0.1	C3216C0G2J271K
330	±5%	0.6±0.1	C3216C0G2J331J
	±10%	0.6±0.1	C3216C0G2J331K
390	±5%	0.6±0.1	C3216C0G2J391J
	±10%	0.6±0.1	C3216C0G2J391K
470	±5%	0.85±0.15	C3216C0G2J471J
	±10%	0.85±0.15	C3216C0G2J471K
560	±5%	0.85±0.15	C3216C0G2J561J
	±10%	0.85±0.15	C3216C0G2J561K
680	±5%	0.85±0.15	C3216C0G2J681J
	±10%	0.85±0.15	C3216C0G2J681K
820	±5%	0.85±0.15	C3216C0G2J821J
	±10%	0.85±0.15	C3216C0G2J821K
1000	±5%	0.85±0.15	C3216C0G2J102J
	±10%	0.85±0.15	C3216C0G2J102K
1200	±5%	0.85±0.15	C3216C0G2J122J
	±10%	0.85±0.15	C3216C0G2J122K
1500	±5%	1.15±0.15	C3216C0G2J152J
	±10%	1.15±0.15	C3216C0G2J152K
1800	±5%	1.15±0.15	C3216C0G2J182J
	±10%	1.15±0.15	C3216C0G2J182K
2200	±5%	1.15±0.15	C3216C0G2J222J
	±10%	1.15±0.15	C3216C0G2J222K
2700	±5%	1.6±0.2	C3216C0G2J272J
	±10%	1.6±0.2	C3216C0G2J272K
3300	±5%	1.6±0.2	C3216C0G2J332J
	±10%	1.6±0.2	C3216C0G2J332K

RATED VOLTAGE E<sub>dc</sub>: 250V

Capacitance (pF)	Tolerance	Thickness (mm)	Part No.
3300	±5%	0.85±0.15	C3216C0G2E332J
	±10%	0.85±0.15	C3216C0G2E332K
3900	±5%	1.15±0.15	C3216C0G2E392J
	±10%	1.15±0.15	C3216C0G2E392K
4700	±5%	1.15±0.15	C3216C0G2E472J
	±10%	1.15±0.15	C3216C0G2E472K
5600	±5%	1.15±0.15	C3216C0G2E562J
	±10%	1.15±0.15	C3216C0G2E562K
6800	±5%	1.6±0.2	C3216C0G2E682J
	±10%	1.6±0.2	C3216C0G2E682K
8200	±5%	1.6±0.2	C3216C0G2E822J
	±10%	1.6±0.2	C3216C0G2E822K

RATED VOLTAGE E<sub>dc</sub>: 100V

Capacitance (pF)	Tolerance	Thickness (mm)	Part No.
3900	±5%	0.6±0.1	C3216C0G2A392J
	±10%	0.6±0.1	C3216C0G2A392K
4700	±5%	0.85±0.15	C3216C0G2A472J
	±10%	0.85±0.15	C3216C0G2A472K
5600	±5%	0.85±0.15	C3216C0G2A562J
	±10%	0.85±0.15	C3216C0G2A562K
6800	±5%	1.15±0.15	C3216C0G2A682J
	±10%	1.15±0.15	C3216C0G2A682K
8200	±5%	1.15±0.15	C3216C0G2A822J
	±10%	1.15±0.15	C3216C0G2A822K
10000	±5%	1.15±0.15	C3216C0G2A103J
	±10%	1.15±0.15	C3216C0G2A103K

#### CAPACITANCE RANGES:

#### CLASS 2

#### TEMPERATURE CHARACTERISTICS: X7R(±15%)

RATED VOLTAGE E<sub>dc</sub>: 630V

Capacitance (pF)	Tolerance	Thickness (mm)	Part No.
1000	±10%	1.15±0.15	C3216X7R2J102K
	±20%	1.15±0.15	C3216X7R2J102M
1500	±10%	1.15±0.15	C3216X7R2J152K
	±20%	1.15±0.15	C3216X7R2J152M
2200	±10%	1.15±0.15	C3216X7R2J222K
	±20%	1.15±0.15	C3216X7R2J222M
3300	±10%	1.15±0.15	C3216X7R2J332K
	±20%	1.15±0.15	C3216X7R2J332M
4700	±10%	1.15±0.15	C3216X7R2J472K
	±20%	1.15±0.15	C3216X7R2J472M
6800	±10%	1.15±0.15	C3216X7R2J682K
	±20%	1.15±0.15	C3216X7R2J682M
10000	±10%	1.15±0.15	C3216X7R2J103K
	±20%	1.15±0.15	C3216X7R2J103M
15000	±10%	1.3±0.2	C3216X7R2J153K
	±20%	1.3±0.2	C3216X7R2J153M
22000	±10%	1.3±0.2	C3216X7R2J223K
	±20%	1.3±0.2	C3216X7R2J223M
33000	±10%	1.6±0.2	C3216X7R2J333K
	±20%	1.6±0.2	C3216X7R2J333M

RATED VOLTAGE E<sub>dc</sub>: 250V

Capacitance (pF)	Tolerance	Thickness (mm)	Part No.
15000	±10%	1.15±0.15	C3216X7R2E153K
	±20%	1.15±0.15	C3216X7R2E153M
22000	±10%	1.15±0.15	C3216X7R2E223K
	±20%	1.15±0.15	C3216X7R2E223M
33000	±10%	1.6±0.2	C3216X7R2E333K
	±20%	1.6±0.2	C3216X7R2E333M
47000	±10%	1.6±0.2	C3216X7R2E473K
	±20%	1.6±0.2	C3216X7R2E473M
68000	±10%	1.6±0.2	C3216X7R2E683K
	±20%	1.6±0.2	C3216X7R2E683M
100000	±10%	1.6±0.2	C3216X7R2E104K
	±20%	1.6±0.2	C3216X7R2E104M

\* M tolerance is standard for Mid Voltage X7R capacitors.

• For more information about products with other capacitance or other data, please contact us.

# Ceramic Capacitors

## For Mid Voltage SMD

C Series

**TEMPERATURE CHARACTERISTICS: X7R( $\pm 15\%$ )**RATED VOLTAGE E<sub>dc</sub>: 100V

Capacitance ( $\mu$ F)	Tolerance	Thickness (mm)	Part No.
33000	$\pm 10\%$	1.15 $\pm$ 0.15	C3216X7R2A333K
	$\pm 20\%$	1.15 $\pm$ 0.15	C3216X7R2A333M
47000	$\pm 10\%$	1.15 $\pm$ 0.15	C3216X7R2A473K
	$\pm 20\%$	1.15 $\pm$ 0.15	C3216X7R2A473M
68000	$\pm 10\%$	1.6 $\pm$ 0.2	C3216X7R2A683K
	$\pm 20\%$	1.6 $\pm$ 0.2	C3216X7R2A683M
100000	$\pm 10\%$	1.6 $\pm$ 0.2	C3216X7R2A104K
	$\pm 20\%$	1.6 $\pm$ 0.2	C3216X7R2A104M
150000	$\pm 10\%$	1.6 $\pm$ 0.2	C3216X7R2A154K
	$\pm 20\%$	1.6 $\pm$ 0.2	C3216X7R2A154M



- \* M tolerance is standard for Mid Voltage X7R capacitors.
- For more information about products with other capacitance or other data, please contact us.

# Ceramic Capacitors

## For Mid Voltage SMD

## C Series

### C3225 (EIA:CC1210) TYPE

#### CAPACITANCE RANGES:

#### CLASS 1 (TEMPERATURE COMPENSATION)

#### TEMPERATURE CHARACTERISTICS: C0G(0±30ppm/°C)

RATED VOLTAGE Edc: 630V

Capacitance (pF)	Tolerance	Thickness (mm)	Part No.
3900	±5%	1.25±0.2	C3225C0G2J392J
	±10%	1.25±0.2	C3225C0G2J392K
4700	±5%	1.6±0.2	C3225C0G2J472J
	±10%	1.6±0.2	C3225C0G2J472K
5600	±5%	1.6±0.2	C3225C0G2J562J
	±10%	1.6±0.2	C3225C0G2J562K
6800	±5%	2.0±0.2	C3225C0G2J682J
	±10%	2.0±0.2	C3225C0G2J682K

RATED VOLTAGE Edc: 250V

Capacitance (pF)	Tolerance	Thickness (mm)	Part No.
10000	±5%	1.6±0.2	C3225C0G2E103J
	±10%	1.6±0.2	C3225C0G2E103K
15000	±5%	2.0±0.2	C3225C0G2E153J
	±10%	2.0±0.2	C3225C0G2E153K

RATED VOLTAGE Edc: 100V

Capacitance (pF)	Tolerance	Thickness (mm)	Part No.
15000	±5%	1.25±0.2	C3225C0G2A153J
	±10%	1.25±0.2	C3225C0G2A153K
22000	±5%	1.6±0.2	C3225C0G2A223J
	±10%	1.6±0.2	C3225C0G2A223K
33000	±5%	2.0±0.2	C3225C0G2A333J
	±10%	2.0±0.2	C3225C0G2A333K

#### CAPACITANCE RANGES:

#### CLASS 2

#### TEMPERATURE CHARACTERISTICS: X7R(±15%)

RATED VOLTAGE Edc:630V

Capacitance (pF)	Tolerance	Thickness (mm)	Part No.
47000	±10%	2.0±0.2	C3225X7R2J473K
	±20%	2.0±0.2	C3225X7R2J473M
68000	±10%	2.0±0.2	C3225X7R2J683K
	±20%	2.0±0.2	C3225X7R2J683M

RATED VOLTAGE Edc:250V

Capacitance (pF)	Tolerance	Thickness (mm)	Part No.
100000	±10%	2.0±0.2	C3225X7R2E104K
	±20%	2.0±0.2	C3225X7R2E104M
150000	±10%	2.0±0.2	C3225X7R2E154K
	±20%	2.0±0.2	C3225X7R2E154M
220000	±10%	2.0±0.2	C3225X7R2E224K
	±20%	2.0±0.2	C3225X7R2E224M

RATED VOLTAGE Edc:100V

Capacitance (pF)	Tolerance	Thickness (mm)	Part No.
330000	±10%	2.0±0.2	C3225X7R2A334K
	±20%	2.0±0.2	C3225X7R2A334M
470000	±10%	2.0±0.2	C3225X7R2A474K
	±20%	2.0±0.2	C3225X7R2A474M



- \* M tolerance is standard for Mid Voltage X7R capacitors.
- For more information about products with other capacitance or other data, please contact us.

# Ceramic Capacitors

For Mid Voltage  
SMD

## C Series

### C4532 (EIA:CC1812) TYPE

#### CAPACITANCE RANGES:

#### CLASS 1 (TEMPERATURE COMPENSATION)

TEMPERATURE CHARACTERISTICS: C0G(0±30ppm/°C)

RATED VOLTAGE Edc: 630V

Capacitance (pF)	Tolerance	Thickness (mm)	Part No.
8200	±5%	1.6±0.2	C4532C0G2J822J
	±10%	1.6±0.2	C4532C0G2J822K
10000	±5%	1.6±0.2	C4532C0G2J103J
	±10%	1.6±0.2	C4532C0G2J103K
15000	±5%	2.5±0.3	C4532C0G2J153J
	±10%	2.5±0.3	C4532C0G2J153K
22000	±5%	3.2±0.3	C4532C0G2J223J
	±10%	3.2±0.3	C4532C0G2J223K

RATED VOLTAGE Edc: 250V

Capacitance (pF)	Tolerance	Thickness (mm)	Part No.
22000	±5%	1.6±0.2	C4532C0G2E223J
	±10%	1.6±0.2	C4532C0G2E223K
33000	±5%	2.0±0.2	C4532C0G2E333J
	±10%	2.0±0.2	C4532C0G2E333K
47000	±5%	3.2±0.3	C4532C0G2E473J
	±10%	3.2±0.3	C4532C0G2E473K

RATED VOLTAGE Edc: 100V

Capacitance (pF)	Tolerance	Thickness (mm)	Part No.
47000	±5%	2.0±0.2	C4532C0G2A473J
	±10%	2.0±0.2	C4532C0G2A473K
68000	±5%	2.5±0.3	C4532C0G2A683J
	±10%	2.5±0.3	C4532C0G2A683K
100000	±5%	3.2±0.4	C4532C0G2A104J
	±10%	3.2±0.4	C4532C0G2A104K

#### CAPACITANCE RANGES:

#### CLASS 2

TEMPERATURE CHARACTERISTICS: X7R(±15%)

RATED VOLTAGE Edc:630V

Capacitance (pF)	Tolerance	Thickness (mm)	Part No.
68000	±10%	1.6±0.2	C4532X7R2J683K
	±20%	1.6±0.2	C4532X7R2J683M
100000	±10%	2.3±0.2	C4532X7R2J104K
	±20%	2.3±0.2	C4532X7R2J104M

RATED VOLTAGE Edc:250V

Capacitance (pF)	Tolerance	Thickness (mm)	Part No.
150000	±10%	1.6±0.2	C4532X7R2E154K
	±20%	1.6±0.2	C4532X7R2E154M
220000	±10%	2.3±0.2	C4532X7R2E224K
	±20%	2.3±0.2	C4532X7R2E224M
330000	±10%	2.3±0.2	C4532X7R2E334K
	±20%	2.3±0.2	C4532X7R2E334M
470000	±10%	2.3±0.2	C4532X7R2E474K
	±20%	2.3±0.2	C4532X7R2E474M

RATED VOLTAGE Edc:100V

Capacitance (pF)	Tolerance	Thickness (mm)	Part No.
680000	±10%	2.3±0.2	C4532X7R2A684K
	±20%	2.3±0.2	C4532X7R2A684M
1000000 [1μF]	±10%	2.3±0.2	C4532X7R2A105K
	±20%	2.3±0.2	C4532X7R2A105M



- \* M tolerance is standard for Mid Voltage X7R capacitors.
- For more information about products with other capacitance or other data, please contact us.

# Ceramic Capacitors

## For Mid Voltage SMD

### C Series

#### C5750 (EIA:CC2220) TYPE

#### CAPACITANCE RANGES:

#### CLASS 2

#### TEMPERATURE CHARACTERISTICS: X7R( $\pm 15\%$ )

#### RATED VOLTAGE Edc:630V

Capacitance (pF)	Tolerance	Thickness (mm)	Part No.
150000	$\pm 10\%$	1.6 $\pm 0.2$	C5750X7R2J154K
	$\pm 20\%$	1.6 $\pm 0.2$	C5750X7R2J154M
220000	$\pm 10\%$	2.3 $\pm 0.2$	C5750X7R2J224K
	$\pm 20\%$	2.3 $\pm 0.2$	C5750X7R2J224M

#### RATED VOLTAGE Edc:250V

Capacitance (pF)	Tolerance	Thickness (mm)	Part No.
330000	$\pm 10\%$	1.6 $\pm 0.2$	C5750X7R2E334K
	$\pm 20\%$	1.6 $\pm 0.2$	C5750X7R2E334M
470000	$\pm 10\%$	2.3 $\pm 0.2$	C5750X7R2E474K
	$\pm 20\%$	2.3 $\pm 0.2$	C5750X7R2E474M
680000	$\pm 10\%$	2.3 $\pm 0.2$	C5750X7R2E684K
	$\pm 20\%$	2.3 $\pm 0.2$	C5750X7R2E684M
1000000 [1 $\mu$ F]	$\pm 10\%$	2.3 $\pm 0.2$	C5750X7R2E105K
	$\pm 20\%$	2.3 $\pm 0.2$	C5750X7R2E105M

#### RATED VOLTAGE Edc:100V

Capacitance (pF)	Tolerance	Thickness (mm)	Part No.
680000	$\pm 10\%$	1.6 $\pm 0.2$	C5750X7R2A684K
	$\pm 20\%$	1.6 $\pm 0.2$	C5750X7R2A684M
1000000 [1 $\mu$ F]	$\pm 10\%$	2.3 $\pm 0.2$	C5750X7R2A105K
	$\pm 20\%$	2.3 $\pm 0.2$	C5750X7R2A105M
1500000 [1.5 $\mu$ F]	$\pm 10\%$	2.3 $\pm 0.2$	C5750X7R2A155K
	$\pm 20\%$	2.3 $\pm 0.2$	C5750X7R2A155M
2200000 [2.2 $\mu$ F]	$\pm 10\%$	2.3 $\pm 0.2$	C5750X7R2A225K
	$\pm 20\%$	2.3 $\pm 0.2$	C5750X7R2A225M



- \* M tolerance is standard for Mid Voltage X7R capacitors.
- For more information about products with other capacitance or other data, please contact us.