

C Series C3216 (EIA CC1206) Type

Conformity to RoHS Directive

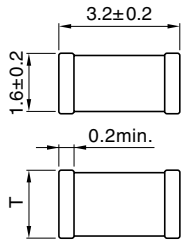
FEATURES

- The unique design structure for mid voltage enables a compact size with high voltage withstanding.
- Rated voltage Edc: 100, 250 and 630V.

APPLICATIONS

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

SHAPES AND DIMENSIONS



Dimensions in mm



PRODUCT IDENTIFICATION

C 3216 CH 2J 101 J □
 (1) (2) (3) (4) (5) (6) (7)

(1) Series name

(2) Dimensions

3216	3.2×1.6mm
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(3) Capacitance temperature characteristics

Class 1 (Temperature compensation)

Temperature characteristics	Capacitance change	Temperature range
CH	0±60ppm/°C	-25 to +85°C
C0G	0±30ppm/°C	-55 to +125°C

Class 2 (Temperature stable and general purpose)

Temperature characteristics	Capacitance change	Temperature range
JB	±10%	-25 to +85°C
X7R	±15%	-55 to +125°C
X5R	±15%	-55 to +85°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.

101	100pF
102	1,000pF
333	33,000pF
474	470,000pF

(6) Capacitance tolerance

J	±5%
K	±10%
M	±20%

(7) Packaging style

T	Taping (reel)
B	Bulk

• Conformity to RoHS Directive: This means that, in conformity with EU Directive 2002/95/EC, lead, cadmium, mercury, hexavalent chromium, and specific bromine-based flame retardants, PBB and PBDE, have not been used, except for exempted applications.

• All specifications are subject to change without notice.
 Please read the precautions before using this catalog.

CAPACITANCE RANGES: CLASS 1 (TEMPERATURE COMPENSATION)
TEMPERATURE CHARACTERISTICS: CH(0±60ppm/°C), C0G(0±30ppm/°C)

 RATED VOLTAGE E_{dc}: 630V

Capacitance (pF)	Tolerance	Thickness T (mm)	Part No.	
			Temperature characteristics: CH	Temperature characteristics: C0G
100	±5%	0.60±0.10	C3216CH2J101J	C3216C0G2J101J
	±10%	0.60±0.10	C3216CH2J101K	C3216C0G2J101K
120	±5%	0.60±0.10	C3216CH2J121J	C3216C0G2J121J
	±10%	0.60±0.10	C3216CH2J121K	C3216C0G2J121K
150	±5%	0.60±0.10	C3216CH2J151J	C3216C0G2J151J
	±10%	0.60±0.10	C3216CH2J151K	C3216C0G2J151K
180	±5%	0.60±0.10	C3216CH2J181J	C3216C0G2J181J
	±10%	0.60±0.10	C3216CH2J181K	C3216C0G2J181K
220	±5%	0.60±0.10	C3216CH2J221J	C3216C0G2J221J
	±10%	0.60±0.10	C3216CH2J221K	C3216C0G2J221K
270	±5%	0.60±0.10	C3216CH2J271J	C3216C0G2J271J
	±10%	0.60±0.10	C3216CH2J271K	C3216C0G2J271K
330	±5%	0.60±0.10	C3216CH2J331J	C3216C0G2J331J
	±10%	0.60±0.10	C3216CH2J331K	C3216C0G2J331K
390	±5%	0.60±0.10	C3216CH2J391J	C3216C0G2J391J
	±10%	0.60±0.10	C3216CH2J391K	C3216C0G2J391K
470	±5%	0.85±0.10	C3216CH2J471J	C3216C0G2J471J
	±10%	0.85±0.10	C3216CH2J471K	C3216C0G2J471K
560	±5%	0.85±0.10	C3216CH2J561J	C3216C0G2J561J
	±10%	0.85±0.10	C3216CH2J561K	C3216C0G2J561K
680	±5%	0.85±0.10	C3216CH2J681J	C3216C0G2J681J
	±10%	0.85±0.10	C3216CH2J681K	C3216C0G2J681K
820	±5%	0.85±0.10	C3216CH2J821J	C3216C0G2J821J
	±10%	0.85±0.10	C3216CH2J821K	C3216C0G2J821K
1,000	±5%	0.85±0.10	C3216CH2J102J	C3216C0G2J102J
	±10%	0.85±0.10	C3216CH2J102K	C3216C0G2J102K
1,500	±5%	1.15±0.10	C3216CH2J152J	C3216C0G2J152J
	±10%	1.15±0.10	C3216CH2J152K	C3216C0G2J152K
2,200	±5%	1.15±0.10	C3216CH2J222J	C3216C0G2J222J
	±10%	1.15±0.10	C3216CH2J222K	C3216C0G2J222K
3,300	±5%	1.60±0.15	C3216CH2J332J	C3216C0G2J332J
	±10%	1.60±0.15	C3216CH2J332K	C3216C0G2J332K

 RATED VOLTAGE E_{dc}: 250V

Capacitance (pF)	Tolerance	Thickness T (mm)	Part No.	
			Temperature characteristics: CH	Temperature characteristics: C0G
3,300	±5%	0.85±0.10	C3216CH2E332J	C3216C0G2E332J
	±10%	0.85±0.10	C3216CH2E332K	C3216C0G2E332K
4,700	±5%	1.15±0.10	C3216CH2E472J	C3216C0G2E472J
	±10%	1.15±0.10	C3216CH2E472K	C3216C0G2E472K
6,800	±5%	1.60±0.15	C3216CH2E682J	C3216C0G2E682J
	±10%	1.60±0.15	C3216CH2E682K	C3216C0G2E682K

 RATED VOLTAGE E_{dc}: 100V

Capacitance (pF)	Tolerance	Thickness T (mm)	Part No.	
			Temperature characteristics: CH	Temperature characteristics: C0G
4,700	±5%	0.85±0.10	C3216CH2A472J	C3216C0G2A472J
	±10%	0.85±0.10	C3216CH2A472K	C3216C0G2A472K
6,800	±5%	1.15±0.10	C3216CH2A682J	C3216C0G2A682J
	±10%	1.15±0.10	C3216CH2A682K	C3216C0G2A682K
10,000	±5%	1.15±0.10	C3216CH2A103J	C3216C0G2A103J
	±10%	1.15±0.10	C3216CH2A103K	C3216C0G2A103K

CAPACITANCE RANGES: CLASS 2

TEMPERATURE CHARACTERISTICS: JB(±10%), X5R/X7R(±15%)

RATED VOLTAGE E_{dc}: 630V

Capacitance (pF)	Tolerance	Thickness T (mm)	Part No.		
			Temperature characteristics: JB	Temperature characteristics: X5R	Temperature characteristics: X7R
1,000	±10%	1.15±0.10	C3216JB2J102K	C3216X5R2J102K	C3216X7R2J102K
	±20%	1.15±0.10	C3216JB2J102M	C3216X5R2J102M	C3216X7R2J102M
1,500	±10%	1.15±0.10	C3216JB2J152K	C3216X5R2J152K	C3216X7R2J152K
	±20%	1.15±0.10	C3216JB2J152M	C3216X5R2J152M	C3216X7R2J152M
2,200	±10%	1.15±0.10	C3216JB2J222K	C3216X5R2J222K	C3216X7R2J222K
	±20%	1.15±0.10	C3216JB2J222M	C3216X5R2J222M	C3216X7R2J222M
3,300	±10%	1.15±0.10	C3216JB2J332K	C3216X5R2J332K	C3216X7R2J332K
	±20%	1.15±0.10	C3216JB2J332M	C3216X5R2J332M	C3216X7R2J332M
4,700	±10%	1.15±0.10	C3216JB2J472K	C3216X5R2J472K	C3216X7R2J472K
	±20%	1.15±0.10	C3216JB2J472M	C3216X5R2J472M	C3216X7R2J472M
6,800	±10%	1.15±0.10	C3216JB2J682K	C3216X5R2J682K	C3216X7R2J682K
	±20%	1.15±0.10	C3216JB2J682M	C3216X5R2J682M	C3216X7R2J682M
10,000	±10%	1.15±0.10	C3216JB2J103K	C3216X5R2J103K	C3216X7R2J103K
	±20%	1.15±0.10	C3216JB2J103M	C3216X5R2J103M	C3216X7R2J103M
15,000	±10%	1.30±0.10	C3216JB2J153K	C3216X5R2J153K	C3216X7R2J153K
	±20%	1.30±0.10	C3216JB2J153M	C3216X5R2J153M	C3216X7R2J153M
22,000	±10%	1.30±0.10	C3216JB2J223K	C3216X5R2J223K	C3216X7R2J223K
	±20%	1.30±0.10	C3216JB2J223M	C3216X5R2J223M	C3216X7R2J223M
33,000	±10%	1.60±0.15	C3216JB2J333K	C3216X5R2J333K	C3216X7R2J333K
	±20%	1.60±0.15	C3216JB2J333M	C3216X5R2J333M	C3216X7R2J333M

RATED VOLTAGE E_{dc}: 250V

Capacitance (pF)	Tolerance	Thickness T (mm)	Part No.		
			Temperature characteristics: JB	Temperature characteristics: X5R	Temperature characteristics: X7R
15,000	±10%	1.15±0.10	C3216JB2E153K	C3216X5R2E153K	C3216X7R2E153K
	±20%	1.15±0.10	C3216JB2E153M	C3216X5R2E153M	C3216X7R2E153M
22,000	±10%	1.15±0.10	C3216JB2E223K	C3216X5R2E223K	C3216X7R2E223K
	±20%	1.15±0.10	C3216JB2E223M	C3216X5R2E223M	C3216X7R2E223M
33,000	±10%	1.60±0.15	C3216JB2E333K	C3216X5R2E333K	C3216X7R2E333K
	±20%	1.60±0.15	C3216JB2E333M	C3216X5R2E333M	C3216X7R2E333M
47,000	±10%	1.60±0.15	C3216JB2E473K	C3216X5R2E473K	C3216X7R2E473K
	±20%	1.60±0.15	C3216JB2E473M	C3216X5R2E473M	C3216X7R2E473M
68,000	±10%	1.60±0.15	C3216JB2E683K	C3216X5R2E683K	C3216X7R2E683K
	±20%	1.60±0.15	C3216JB2E683M	C3216X5R2E683M	C3216X7R2E683M
100,000	±10%	1.60±0.15	C3216JB2E104K	C3216X5R2E104K	C3216X7R2E104K
	±20%	1.60±0.15	C3216JB2E104M	C3216X5R2E104M	C3216X7R2E104M

RATED VOLTAGE E_{dc}: 100V

Capacitance (pF)	Tolerance	Thickness T (mm)	Part No.		
			Temperature characteristics: JB	Temperature characteristics: X5R	Temperature characteristics: X7R
33,000	±10%	1.15±0.10	C3216JB2A333K	C3216X5R2A333K	C3216X7R2A333K
	±20%	1.15±0.10	C3216JB2A333M	C3216X5R2A333M	C3216X7R2A333M
47,000	±10%	1.15±0.10	C3216JB2A473K	C3216X5R2A473K	C3216X7R2A473K
	±20%	1.15±0.10	C3216JB2A473M	C3216X5R2A473M	C3216X7R2A473M
68,000	±10%	1.60±0.15	C3216JB2A683K	C3216X5R2A683K	C3216X7R2A683K
	±20%	1.60±0.15	C3216JB2A683M	C3216X5R2A683M	C3216X7R2A683M
100,000	±10%	1.60±0.15	C3216JB2A104K	C3216X5R2A104K	C3216X7R2A104K
	±20%	1.60±0.15	C3216JB2A104M	C3216X5R2A104M	C3216X7R2A104M
150,000	±10%	1.60±0.15	C3216JB2A154K	C3216X5R2A154K	C3216X7R2A154K
	±20%	1.60±0.15	C3216JB2A154M	C3216X5R2A154M	C3216X7R2A154M
220,000	±10%	1.15±0.10	C3216JB2A224K	C3216X5R2A224K	C3216X7R2A224K
	±20%	1.15±0.10	C3216JB2A224M	C3216X5R2A224M	C3216X7R2A224M
330,000	±10%	1.30±0.15	C3216JB2A334K	C3216X5R2A334K	C3216X7R2A334K
	±20%	1.30±0.15	C3216JB2A334M	C3216X5R2A334M	C3216X7R2A334M
470,000	±10%	1.60±0.20	C3216JB2A474K	C3216X5R2A474K	C3216X7R2A474K
	±20%	1.60±0.20	C3216JB2A474M	C3216X5R2A474M	C3216X7R2A474M
680,000	±10%	1.60±0.20	C3216JB2A684K	C3216X5R2A684K	C3216X7R2A684K
	±20%	1.60±0.20	C3216JB2A684M	C3216X5R2A684M	C3216X7R2A684M
1,000,000	±10%	1.60±0.20	C3216JB2A105K	C3216X5R2A105K	C3216X7R2A105K
	±20%	1.60±0.20	C3216JB2A105M	C3216X5R2A105M	C3216X7R2A105M

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

• All specifications are subject to change without notice.

Please read the precautions before using this catalog.