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SAFETY REMINDERS

⚠ REMINDERS

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- 8. The descriptions in this catalog apply as of April 2007.



Mid Voltage Multilayer Ceramic Chip Capacitors C Series C1608 (EIA CC0603) Type

Conformity to RoHS Directive

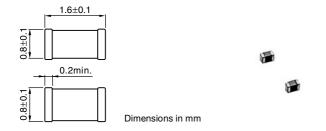
FEATURES

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

APPLICATIONS

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

SHAPES AND DIMENSIONS



PRODUCT IDENTIFICATION

 $\frac{\text{C}}{\text{(1)}} \frac{1608}{\text{(2)}} \frac{\text{CH}}{\text{(3)}} \frac{2\text{E}}{\text{(4)}} \frac{101}{\text{(5)}} \frac{\text{K}}{\text{(6)}} \frac{\square}{\text{(7)}}$

(1) Series name

(2) Dimensions

· /		
1608	1.6× 0.8mm	

(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	

(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	

(6) Capacitance tolerance

` ' '		
K	±10%	
M	±20%	

(7) Packaging style

Т	Taping (reel)	
В	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.



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

RATED VOLTAGE Edc: 250V

Capacitance	Tolerance	Thickness T (mm)	Part No.		
(pF)			Temperature characteristics: CH	Temperature characteristics: C0G	
100	±5%	0.80±0.10	C1608CH2E101J	C1608C0G2E101J	
100	±10%	0.80±0.10	C1608CH2E101K	C1608C0G2E101K	
100	±5%	0.80±0.10	C1608CH2E121J	C1608C0G2E121J	
120	±10%	0.80±0.10	C1608CH2E121K	C1608C0G2E121K	
150	±5%	0.80±0.10	C1608CH2E151J	C1608C0G2E151J	
150	±10%	0.80±0.10	C1608CH2E151K	C1608C0G2E151K	
100	±5%	0.80±0.10	C1608CH2E181J	C1608C0G2E181J	
180	±10%	0.80±0.10	C1608CH2E181K	C1608C0G2E181K	
200	±5%	0.80±0.10	C1608CH2E221J	C1608C0G2E221J	
220	±10%	0.80±0.10	C1608CH2E221K	C1608C0G2E221K	
270	±5%	0.80±0.10	C1608CH2E271J	C1608C0G2E271J	
270	±10%	0.80±0.10	C1608CH2E271K	C1608C0G2E271K	
200	±5%	0.80±0.10	C1608CH2E331J	C1608C0G2E331J	
330	±10%	0.80±0.10	C1608CH2E331K	C1608C0G2E331K	
390	±5%	0.80±0.10	C1608CH2E391J	C1608C0G2E391J	
390	±10%	0.80±0.10	C1608CH2E391K	C1608C0G2E391K	
470	±5%	0.80±0.10	C1608CH2E471J	C1608C0G2E471J	
470	±10%	0.80±0.10	C1608CH2E471K	C1608C0G2E471K	
F60	±5%	0.80±0.10	C1608CH2E561J	C1608C0G2E561J	
560	±10%	0.80±0.10	C1608CH2E561K	C1608C0G2E561K	
680	±5%	0.80±0.10	C1608CH2E681J	C1608C0G2E681J	
000	±10%	0.80±0.10	C1608CH2E681K	C1608C0G2E681K	

RATED VOLTAGE Edc: 100V

Capacitance Tolerance		Thickness T	Part No.	
(pF)	Tolerance	(mm)	Temperature characteristics: CH	Temperature characteristics: C0G
100	±5%	0.80±0.10	C1608CH2A101J	C1608C0G2A101J
100	±10%	0.80±0.10	C1608CH2A101K	C1608C0G2A101K
100	±5%	0.80±0.10	C1608CH2A121J	C1608C0G2A121J
120	±10%	0.80±0.10	C1608CH2A121K	C1608C0G2A121K
150	±5%	0.80±0.10	C1608CH2A151J	C1608C0G2A151J
150	±10%	0.80±0.10	C1608CH2A151K	C1608C0G2A151K
180	±5%	0.80±0.10	C1608CH2A181J	C1608C0G2A181J
180	±10%	0.80±0.10	C1608CH2A181K	C1608C0G2A181K
220	±5%	0.80±0.10	C1608CH2A221J	C1608C0G2A221J
220	±10%	0.80±0.10	C1608CH2A221K	C1608C0G2A221K
270	±5%	0.80±0.10	C1608CH2A271J	C1608C0G2A271J
270	±10%	0.80±0.10	C1608CH2A271K	C1608C0G2A271K
330	±5%	0.80±0.10	C1608CH2A331J	C1608C0G2A331J
330	±10%	0.80±0.10	C1608CH2A331K	C1608C0G2A331K
390	±5%	0.80±0.10	C1608CH2A391J	C1608C0G2A391J
390	±10%	0.80±0.10	C1608CH2A391K	C1608C0G2A391K
470	±5%	0.80±0.10	C1608CH2A471J	C1608C0G2A471J
470	±10%	0.80±0.10	C1608CH2A471K	C1608C0G2A471K
560	±5%	0.80±0.10	C1608CH2A561J	C1608C0G2A561J
300	±10%	0.80±0.10	C1608CH2A561K	C1608C0G2A561K
680	±5%	0.80±0.10	C1608CH2A681J	C1608C0G2A681J
000	±10%	0.80±0.10	C1608CH2A681K	C1608C0G2A681K
820	±5%	0.80±0.10	C1608CH2A821J	C1608C0G2A821J
020	±10%	0.80±0.10	C1608CH2A821K	C1608C0G2A821K
1000	±5%	0.80±0.10	C1608CH2A102J	C1608C0G2A102J
1000	±10%	0.80±0.10	C1608CH2A102K	C1608C0G2A102K

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



CAPACITANCE RANGES: CLASS 2

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

RATED VOLTAGE Edc: 100V

Capacitance	T-1	Thickness T (mm)	Part No.			
(pF)	Tolerance		Temperature characteristics: JB	Temperature characteristics: X5R	Temperature characteristics: X7R	
1.000	±10%	0.80±0.10	C1608JB2A102K	C1608X5R2A102K	C1608X7R2A102K	
1,000	±20%	0.80±0.10	C1608JB2A102M	C1608X5R2A102M	C1608X7R2A102M	
1 500	±10%	0.80±0.10	C1608JB2A152K	C1608X5R2A152K	C1608X7R2A152K	
1,500	±20%	0.80±0.10	C1608JB2A152M	C1608X5R2A152M	C1608X7R2A152M	
2 200	±10%	0.80±0.10	C1608JB2A222K	C1608X5R2A222K	C1608X7R2A222K	
2,200	±20%	0.80±0.10	C1608JB2A222M	C1608X5R2A222M	C1608X7R2A222M	
3 300 -	±10%	0.80±0.10	C1608JB2A332K	C1608X5R2A332K	C1608X7R2A332K	
	±20%	0.80±0.10	C1608JB2A332M	C1608X5R2A332M	C1608X7R2A332M	
. ====	±10%	0.80±0.10	C1608JB2A472K	C1608X5R2A472K	C1608X7R2A472K	
4,700	±20%	0.80±0.10	C1608JB2A472M	C1608X5R2A472M	C1608X7R2A472M	
0.000	±10%	0.80±0.10	C1608JB2A682K	C1608X5R2A682K	C1608X7R2A682K	
6,800	±20% 0.80±0.10	0.80±0.10	C1608JB2A682M	C1608X5R2A682M	C1608X7R2A682M	
10.000	±10%	0.80±0.10	C1608JB2A103K	C1608X5R2A103K	C1608X7R2A103K	
10,000	±20%	0.80±0.10	C1608JB2A103M	C1608X5R2A103M	C1608X7R2A103M	
15.000	±10%	0.80±0.10	C1608JB2A153K	C1608X5R2A153K	C1608X7R2A153K	
15,000	±20%	0.80±0.10	C1608JB2A153M	C1608X5R2A153M	C1608X7R2A153M	
20.000	±10%	0.80±0.10	C1608JB2A223K	C1608X5R2A223K	C1608X7R2A223K	
22,000	±20%	0.80±0.10	C1608JB2A223M	C1608X5R2A223M	C1608X7R2A223M	

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