

KEMET Surface Mount RF Ceramic

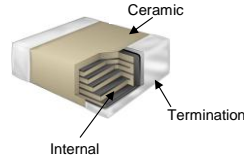
Revision B, 03 January 2013

Note: Information subject to change without notice. Monitor website regularly for updates.

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Characteristics and Typical Construction

- Standard EIA Chip Sizes
- COG Dielectrics
- 6.3 - 250 Volts
- Tape & Reel Packaging
- Matte Tin finish terminations standard



RoHS Restricted Substance Content

Key for Determining Adherence to China RoHS and 2011/65/EU Content Criteria¹

O = ≤ MCV, **X** = > MCV, **X** = > MCV, but EU RoHS Compliant with Exemption(s)

KEMET Product	Series	Substance and MCV ¹ Termination Code	Restricted Substance					Available since	China RoHS Symbol ³	
			Cd	Cr ⁶⁺	Pb	Hg	PBB			PBDE
Ceramic RF High Frequency	CBRXXC	C	O	O	O	O	O	O	Release	

¹MCV = Maximum Concentration Values per 2011/65/EU and China RoHS criteria.

³China RoHS Symbol based on current manufacturing. Refer to notes in Pb column for transition dates.

Soldering Capability Characteristics

	Matte Tin Termination	SnPb Termination
Termination Material	Silver or Copper	Silver or Copper
Termination Plating (Barrier)	100% Matte Tin (Nickel)	90Sn10 Pb (Nickel)
Peak Temperature Capability	260°C	260°C
Soldering Process Compatibility	Backward & Forward Compatible	Backward & Forward Compatible
MSL Rating per J-STD-020C	Not Classified ⁴	Not Classified ⁴
Tin Whisker Test Results <small>based on JESD22-A121 and JESD201⁵</small>	Class 2	Class 2

⁴ MSL not classified for ceramic capacitors. J-STD-020 is applicable to non-hermetic surface mount devices, and is intended for plastic package components. KEMET ceramic chips are not encapsulated in a plastic package, so they are not susceptible to these effects. If an MSL were required, the rating this product would be considered MSL 1 or better.

⁵ Per EIA/ECA component bulletin CB19, tin whiskering is not considered a reliability risk within the capacitor industry for non-Military / Hi-Rel applications.

Ordering

CBR	02	C	330	F	9	G	A	C	TU
Series	Case Size (LxW)	Specification/ Series	Capacitance Code (pF)	Capacitance Tolerance	Voltage	Dielectric	Termination Style	Termination Finish	Packaging/Grade (C-Spec)
CBR	02 = 0201 04 = 0402 06 = 0603 08 = 0805	C = Standard	2 Sig. Digits + Number of Zeros Use 9 for 1.0 - 9.9pF Use 8 for 0.5 - 9.9pF ex. 2.2pF = 229 ex. 0.5pF = 508	A = ±0.05pF B = ±0.1pF C = ±0.25pF D = ±0.5pF F = ±1% G = ±2% J = ±5%	9 = 6.3V 8 = 10V 3 = 25V 5 = 50V 1 = 100V A = 250V	G = COG	A = N/A	C = 100% Matte Sn	TU = 7" Reel Unmarked

Identification

Reel level **KEMET EZ ID** label indicates product content relative to substance restrictions of the EU RoHS Directive, 2011/65/EU and China RoHS.
RoHS-PRC = Meets criteria without exemption
RoHS-EU = Meets criteria with exemption
RoHS-NO = Does not meet criteria

