

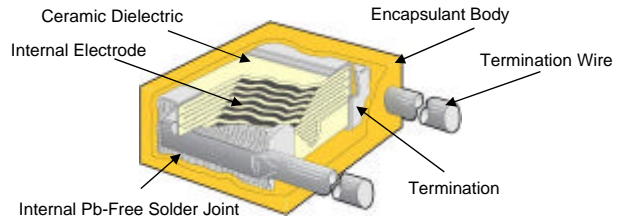
# KEMET Through-Hole Ceramic

Revision Nil, 01 Nov 2005

**Note:** Information subject to change without notice. Monitor website regularly for updates.  
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## Characteristics and Typical Construction

- Variety of features and construction by series (Example drawing typical for radial style. Excepting wire configuration, axial style has similar construction and material set.)
- Termination code 'T' products support manufacture of RoHS-compliant EEE
- 2 - 125 Volts, depending on series
- ± 5, 10, and 20% Capacitance tolerances available
- Tape & Reel Packaging available
- SnPb termination is standard for all series



## RoHS Restricted Substance Content

**Key for Determining Adherence to 2002/95/EC and 2005/618/EC Content Criteria<sup>1</sup>**

☑ = Meets criteria    ✓ = Meets criteria with reliance on 2002/95/EC Annex 1 exemptions<sup>2</sup>    ☒ = Does not meet criteria

KEMET Product	Series	Material and MCV <sup>1</sup> Termination Code	Restricted Material						Compliant Version	
			Cd < 0.01%	Cr <sup>6+</sup> < 0.1%	Pb < 0.1%	Hg < 0.1%	PBB < 0.1%	PBDE < 0.1%	Available since	Standard since
Golden Max Conformally Coated Radial, Standard and High Voltage	C3xx	T, C	☑	☑	✓	☑	☑	☑	C346 (0.025 dia wire), C350, C356 = Apr-05 All others = Nov-04	T = unique for Pb-Free, for C code, same dates as availability apply.
Aximax Conformally Coated Axial	C4xx		☑	☑	✓	☑	☑	☑		
Golden Max Conformally Coated Radial, Standard and High Voltage	C3xx	H	☑	☑	☒	☑	☑	☑		
Aximax Conformally Coated Axial	C4xx		☑	☑	☒	☑	☑	☑		
High Voltage Golden Max	C6xx	T	☒	☑	✓	☑	☑	☑	Jul-05	Jul-05
Commercial Molded Radial	C052, C062, C512, C522	C	☑	☑	☒	☑	☑	☑		
Commercial Molded Axial	C114, C124, C192, C202, C222		☑	☑	☒	☑	☑	☑		

<sup>1</sup> MCV = Maximum Concentration Values per 2005/618/EC amending RoHS Directive 2002/95/EC.  
<sup>2</sup> All compliant series currently rely on RoHS Directive Annex 1 exemption 7a for compliance due to the high lead content (>85% Pb) internal solder joint. By January, 2006, KEMET will implement a Pb-free replacement removing the need for reliance on this exemption. Some values also rely on exemptions 5 and 7c for compliance.

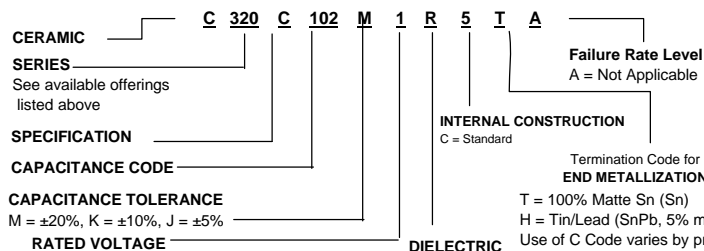
## Soldering Capability Characteristics

	100% Matte Tin Termination	SnPb Termination
<b>Termination Material</b>	Copper Clad Steel	Copper Clad Steel or Copper
<b>Termination Plating (Barrier)</b>	100% Matte Tin (Nickel)	60Sn40Pb
<b>Peak Temperature Capability</b>	260°C	260°C
<b>Soldering Process Compatibility</b>	Backward & Forward Compatible	Backward & Forward Compatible
<b>MSL Rating</b>	Not Classified <sup>3</sup>	Not Classified <sup>3</sup>
<b>Tin Whisker Test Results</b>	per JESD22-A121 available January, 2006 <sup>4</sup>	per JESD22-A121 available January, 2006 <sup>4</sup>

<sup>3</sup> MSL not classified for through-hole style capacitors. J-STD-020 is applicable to non-hermetic surface mount devices. If an MSL were required, this product family would be considered MSL 1 or better.

<sup>4</sup> Tin whiskering is not considered a reliability risk within the capacitor industry for non-Military / Hi-Rel applications. For more information, refer to ECA component bulletin CB19.

## Ordering



## Identification

Reel level KEMET EZ ID label indicates product content relative to substance restrictions of the RoHS Directive, 2002/95/EC, 2005/618/EC.  
RoHS-YES = Meets criteria  
RoHS-NO = Does not meet criteria

