

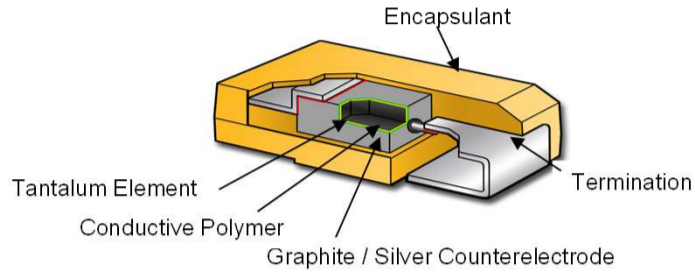
# KEMET Surface Mount Conductive Polymer - KO CAP

Revision K, 15 October 2015

**Note:** Information subject to change without notice. Monitor website regularly for updates. KEMET is not liable for any damages, direct or indirect, consequential or otherwise, that the reader might incur as a result of ignoring this warning, or that any third party might suffer as a result of the reader's ignoring this warning.

## Characteristics and Typical Construction

- KEMET organic with polymer cathode
- Termination code 'T' products support manufacture of RoHS-compliant EEE
- 2 - 25 Volts
- ± 20% Capacitance tolerance
- Tape & Reel Packaging
- SnPb Termination available for T520 and T530 Series



## RoHS Restricted Substance Content

**Key for Determining Adherence to China RoHS and EU 2011/65/EU Content Criteria<sup>1</sup>**  
 O = ≤ MCV, X = > MCV, X = > MCV, but EU RoHS Compliant with Exemption(s)

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	China RoHS Symbol <sup>2</sup>
KO Cap	T520	T, N or P	O	O	O	O	O	O	Mar-00	n/a - Termination unique for Pb-Free	⓪
High Voltage KO Cap	T521										
High Temperature KO Cap	T525										
Face Down Termination KO Cap	T528										
Multiple Anode KO Cap	T530										
KO Cap	T520	H	O	O	X	O	O	O	Mar-00	Varies	⓪
High Voltage KO Cap	T521										
High Temperature KO Cap	T525										
Multiple Anode KO Cap	T530										
KO Cap	T520	S	O	O	O	O	O	O	Mar-00	Varies	⓪
Multiple Anode KO Cap	T530										

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

<sup>2</sup> China RoHS Symbol based on current manufacturing. Refer to notes in Pb column for transition dates.

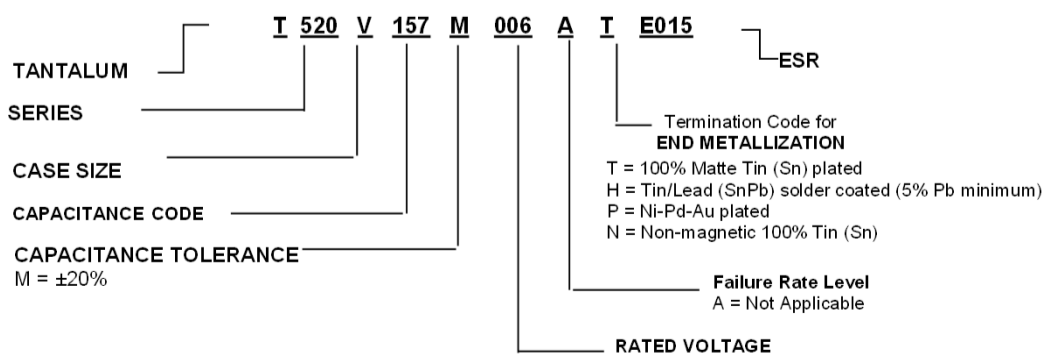
## Soldering Capability Characteristics

	Matte Tin Termination	SnPb Termination
<b>Termination Material</b>	Copper	Copper
<b>Termination Plating (Barrier)</b>	100% Matte Tin (Copper or Nickel)	90Sn10Pb (Copper)
<b>Peak Temperature Capability</b>	T520, T528, T530 = 260°C <sup>3</sup> T525 = 250°C	T520, T528, T530 = 260°C <sup>3</sup> T525 = 250°C
<b>Soldering Process Compatibility</b>	Backward & Forward Compatible	Backward & Forward Compatible
<b>MSL Rating</b>	3	3
<b>Tin Whisker Test Results</b> <i>based on JESD22-A121 and JESD201<sup>4</sup></i>	Class 2	Class 2

<sup>3</sup> T520, T530 V-case product 260°C capable since print week code (PWC) 501. All other T520, T530 sizes 260°C capable since PWC 524. Capability of product produced prior to these dates is 250°C. PWC format is YWW (Y = 1 digit year, WW = 2 digit week, for example, 533 = 33rd week of 2005) and is printed on the component face. T528 series 260°C capable since release in April, 2006.

<sup>4</sup> 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



## 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

