KEMET Through-Hole Tantalum

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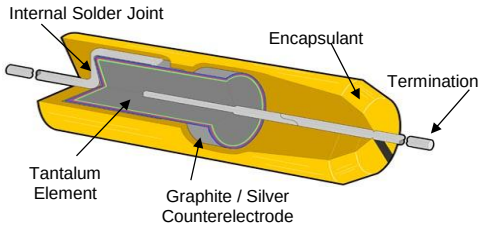
Characteristics and Typical Construction

- Variety of features and construction by series (drawing provided typical for encapsulated styles)
- 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 China RoHS and EU 2011/65/EU Content Criteria[1]
O = ≤ MCV, X = > MCV, X = > MCV, but EU RoHS Compliant with Exemption(s)

			Restricted Material						Compliant Version		
KEMET Product	Series	Material and MCV[1] Termination Code	Cd < 0.01%	Cr^{6+} < 0.1%	Pb < 0.1%	Hg < 0.1%	PBB < 0.1%	PBDE < 0.1%	Available since	Standard since	China RoHS Symbol[2]
Hermetic Sealed	T110, T140	T	O	O	O	O	O	O	Sep-05	n/a - Termination unique for Pb-Free	
Molded Axial	T322								Sep-05		
Molded Radial	T340x								Sep-05		
Dipped Radial - Commercial	T35x, T368, T39x								Jun-05		
Hermetic Sealed	T1xx, T2xx	S	O	O	X	O	O	O			
Molded Axial	T322, T323										
Molded Radial	T330, T34x, T37x										
Dipped Radial - Commercial	T35x, T368, T39x										
Dipped Radial - Military / Hi-Rel	T363, T369										
Wet Tantalum	T19x, T29x										

[1] MCV = Maximum Concentration Values per 2011/65/EU and China RoHS criteria.
[2] China RoHS Symbol based on current manufacturing. Refer to notes in Pb column for transition dates.

Soldering Capability Characteristics

	100% Matte Tin Termination	SnPb Termination
Termination Material	Copper Clad Steel or Nickel	Copper Clad Steel or Nickel
Termination Plating	100% Matte Tin	60Sn40Pb
Peak Temperature Capability	260°C	260°C
Soldering Process Compatibility	Backward & Forward Compatible	Backward & Forward Compatible
MSL Rating	Not Classified[3]	Not Classified[3]
Tin Whisker Test Results *per JESD22-A121 and JESD201*[4]	available August 2007[4]	available August 2007[4]

[3] 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.

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

Ordering

Note: Refer to the online KEMET product catalog for part numbering of MIL-PRF- and KEMET Military equivalents.

T 350 A 105 M 035 A T

- **TANTALUM**
- **SERIES** See available offerings listed above
- **CASE SIZE** A, B, C, D, E, F, G, H, J, K, L, & M
- **CAPACITANCE CODE**
- **CAPACITANCE TOLERANCE** M = ±20%, K = ±10%, J = ±5%
- **RATED VOLTAGE**
- **Failure Rate Level** A = Not Applicable
- Termination Code for **END METALLIZATION** T = 100% Matte Sn (Sn) S = Tin/Lead (SnPb, 5% min. Pb)

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

KEMET CHARGED.