

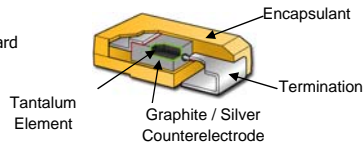
KEMET Surface Mount Tantalum

Revision H, 11 March 2008

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Characteristics and Typical Construction

- Variety of features by series
- Pb-Free & RoHS / ELV Compliant version standard
- 3 - 50 Volts
- ± 20% Capacitance tolerance
- Tape & Reel Packaging



RoHS Restricted Substance Content

Key for Determining Adherence to China RoHS and EU 2002/95/EC and 2005/618/EC Content Criteria¹
 O = ≤ MCV, X = > MCV, X = > MCV, but EU RoHS Compliant with Exemption(s)

KEMET Product	Series	Material and MCV ¹ Termination Code	Restricted Material						Compliant Version						
			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				
Precision Molded Chip	T491	T or G	O	O	O	O	O	O	Mar-00	n/a - Termination unique for Pb-Free	⓪				
Low ESR, Industrial Grade	T494														
Low ESR, Surge Robust	T495														
Fail Safe Fused	T496														
High Grade COTS	T497														
High Temperature Tantalum	T498, T499	H	O	O	X	O	O	O			ⓧ				
Ultra-Low ESR	T510														
Precision Molded Chip	T491														
Low ESR, Industrial Grade	T494														
Low ESR, Surge Robust	T495														
Fail Safe Fused	T496	S	O	O	X	O	O	O	Mar-00	n/a - Termination unique for Pb-Free	ⓧ				
High Grade COTS	T497														
Ultra-Low ESR	T510														
Style CWR11 per MIL-PRF-55365/8	T492		G	O	O	O	O	O				O	Mar-00	n/a - Termination unique for Pb-Free	⓪
			B	O	O	O	O	O				O			
	T409 (CWR09), T419 (CWR19), T429 (CWR29)	Solder options per catalog	O	O	X	O	O	O	O	May-06	n/a - Termination unique for Pb-Free	⓪			
Commercial-Off-The-Shelf (COTS)	T493	T or B	O	O	O	O	O	O	Oct-05	n/a - Termination unique for Pb-Free	⓪				
		Solder options per catalog	O	O	X	O	O	O				ⓧ			

¹MCV = Maximum Concentration Values per 2005/618/EC amending RoHS Directive 2002/95/EC and China RoHS criteria.
²China RoHS Symbol based on current manufacturing. Refer to notes in Pb column for transition dates.

Soldering Capability Characteristics

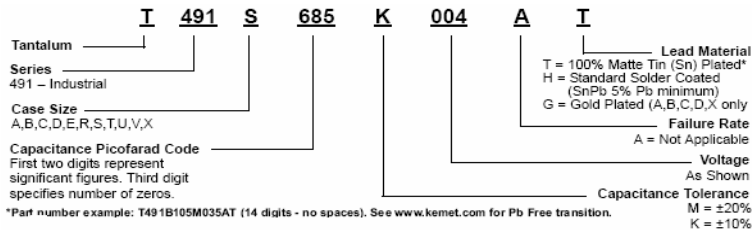
Termination Material	Matte Tin Termination	SnPb Termination
Termination Plating (Barrier)	Copper	Copper
Peak Temperature Capability	100% Matte Tin (Copper, Nickel)	90Sn10Pb (Copper)
Soldering Process Compatibility	260°C	260°C
MSL Rating	Backward & Forward Compatible	Backward & Forward Compatible
Tin Whisker Test Results	1	1
<i>based on JESD22-A121 and JESD201⁵</i>	Class 2	Class 2

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

Ordering

Note: Refer to the online KEMET product catalog for part numbering of MIL-PRF-55365/8 and T493 COTS products.

Identification



Reel level KEMET EZ ID label indicates product content relative to substance restrictions of the EU RoHS Directive, 2002/95/EC, 2005/618/EC and China RoHS..

RoHS-PRC = Meets criteria without exemption
 RoHS-EU = Meets criteria with exemption
 RoHS-NO = Does not meet criteria

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