



December 2012

Environmental Certificate (Tantalum MnO₂ Surface Mount)

KEMET Electronics Corporation ("KEMET") hereby certifies that the products listed below (the "Products") are compliant with the restricted substance requirements of the European Parliament and the Council of the European Union's Directive 2002/95/EC on the restriction of the use of certain hazardous substances in electrical and electronic equipment and Directive 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment (recast) (collectively referred to as "RoHS"). KEMET further certifies that the Products, except where specifically exempted by RoHS, do not contain lead in amounts in excess of the maximum concentration value of 1,000 ppm or cadmium in amounts in excess of the maximum concentration value of 100 ppm as defined by RoHS. This certificate is applicable only to the Products which have been manufactured on or after the dates listed below, ordered with the appropriate termination code in the KEMET part number as noted in the table below and have been sold by KEMET or by an authorized KEMET distributor to the Customer. For more information on KEMET's environmental compliance initiatives, refer to our Green Product Roadmap at www.kemet.com/page/greenproduct

Product(s): **Key for Determining Adherence to 2002/95/EC and as amended by 2011/65/EU Content Criteria¹**

= Meets criteria at the homogeneous level

= Does not meet criteria at the homogeneous level

KEMET Product	Series	Material and MCV ¹ Termination Code ²	Restricted Material						Compliant Version
			Cd	Cr ⁶⁺	Pb	Hg	PBB	PBDE	
			< 0.01%	< 0.1%	< 0.1%	< 0.1%	< 0.1%	< 0.1%	
Industrial Grade	T491	T or G	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Since Release
Low ESR, Industrial Grade	T494	T or G	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Since Release
Commercial Off the Shelf (COTS)	T493	T or B	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Since Release
Low ESR, Surge Robust	T495	T or G	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Since Release
Fail Safe Fused	T496	T							Since Release
High Grade Cots	T497	T or B	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Since Release
High Temp	T498 T499	T or G	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Since Release
Multi Anode, Low ESR Multi Anode, Low ESR COTS	T510 T513	T or B	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Since Release
High Volumetric Efficiency	T428	T	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Since Release

¹ MCV = Maximum Concentration Values per 2011/65/EU amending RoHS Directive 2002/95/EC.

² Termination code is found in the 14th position of the KEMET part number.

Certified by:

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