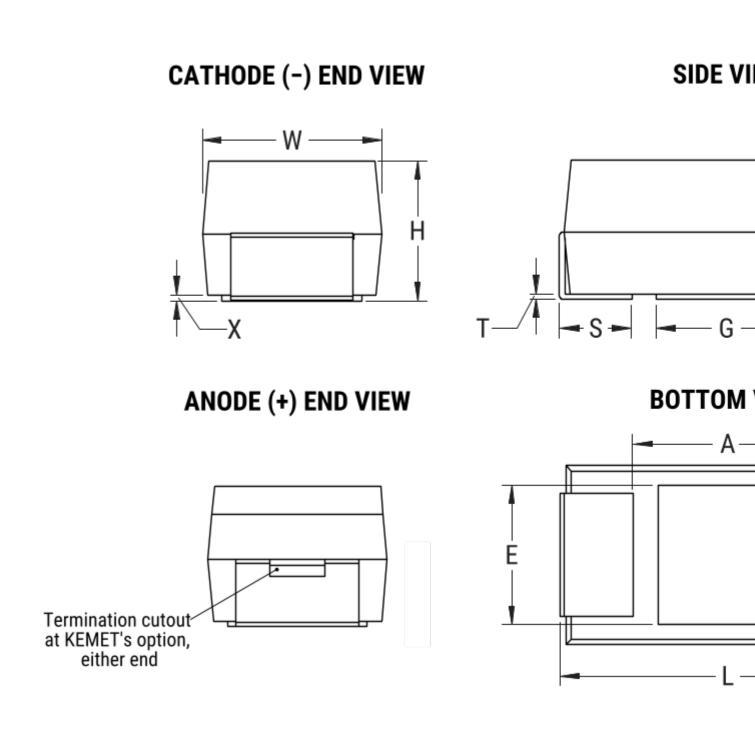
T513E687K006AH6110

T513 HRA, Tantalum, MnO2 Tantalum, HRA Multi-Anode, 680 uF, 10%, 6.3 VDC, SMD, MnO2, Molded, Military Equivalent, MAT High Reliability, N/A, 23 mOhms, 7360, Height Max = 3.8mm



Click <u>here</u> for the 3D model. **Dimensions**

Footprint 7360

- L 7.3mm +/-0.3mm
- W 6mm +/-0.3mm
- H 3.6mm +/-0.2mm

Dimensions

- 0.13mm REF
- S 1.3mm +/-0.3mm
- F 4.1mm +/-0.1mm
- A 3.8mm MIN

Т

- B 0.5mm +/-0.15mm
- E 3.5mm REF
- G 3.5mm REF
- X 0.1mm +/-0.1mm

Packaging Specifications

Packaging	T&R, 178mm
Packaging Quantity	500

General Information

Series	T513 HRA	
Dielectric	MnO2 Tantalum	
Style	SMD Chip	
Description	SMD, MnO2, Molded, Military Equivalent, MAT High Reliability	
Features	Low ESR	
RoHS	No	
Prop 65	WARNING: Cancer and reproductive harm - <u>http://www.p65warnings.ca.gov</u> .	
SCIP Number	b064b03e-bd75-42af-b342-1fe94dec2340	
Termination	Solder Coated	
AEC-Q200	No	
Component Weight	500.73 mg	
Specifications		
Capacitance	680 uF	
Capacitance Tolerance 10%		

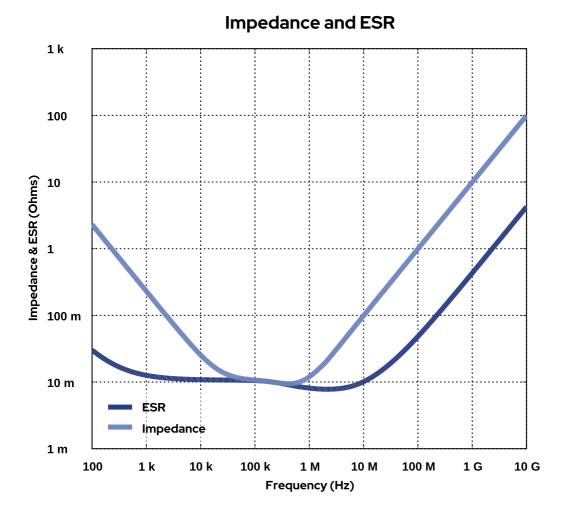
1	
Capacitance Tolerance	10%
Voltage DC	6.3 VDC (85C), 4.22 VDC (125C)
Temperature Range	-55/+125°C
Rated Temperature	85°C
Dissipation Factor	6% 120Hz 25C
Failure Rate	N/A
Resistance	23 mOhms (100kHz 25C)
Ripple Current	2950 mA (rms, 100kHz 25C)
Leakage Current	42.8 uA (5min 25°C)
Testing and Reliability	Standard Testing Only

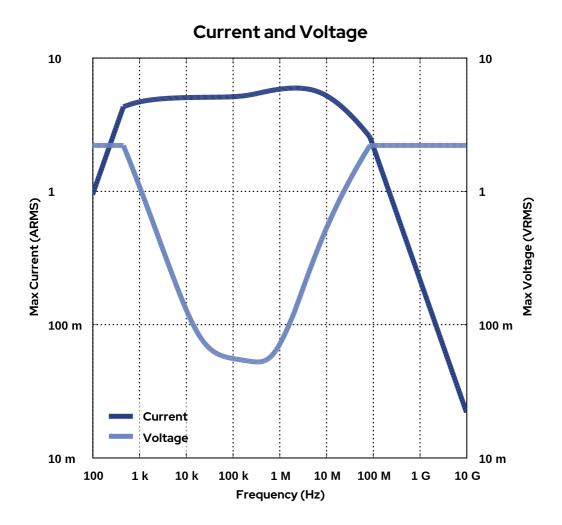
Statements of suitability for certain applications are based on our knowledge of typical operating conditions for such applications, but are not intended to constitute - and we specifically disclaim - any warranty concerning suitability for a specific customer application or use. This Information is intended for use only by customers who have the requisite experience and capability to determine the correct products for their application. Any technical advice inferred from this Information or otherwise provided by us with reference to the use of our products is given gratis, and we assume no obligation or liability for the advice given or results obtained.

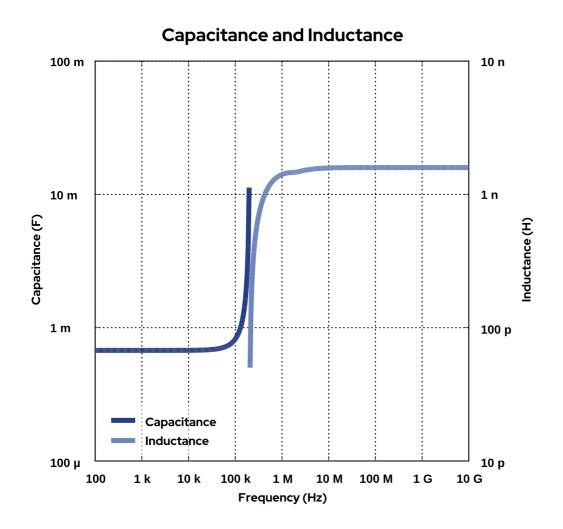
Generated 5/18/2023 - 180b372d-6362-4b3d-a2cd-4fbfab9cfb6c © 2006 - 2023 KEMET Generated 5/18/2023 - 180b372d-6362-4b3d-a2cd-4fbfab9cfb6c © 2006 - 2023 KEMET

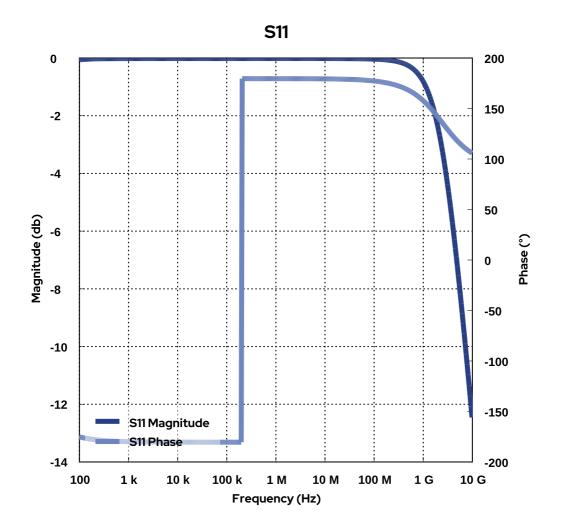
Simulations

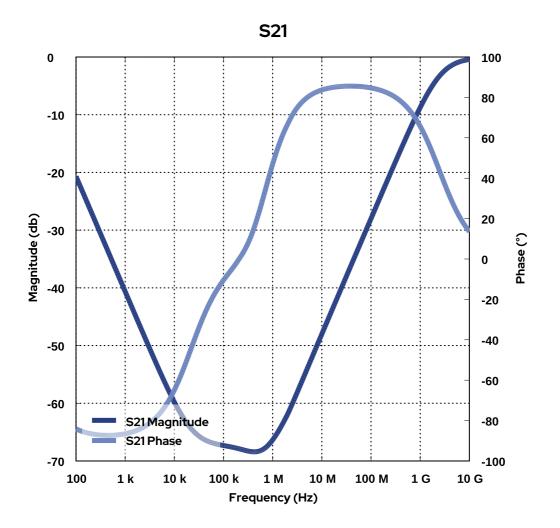
For the complete simulation environment please visit <u>K-SIM</u>.











These are simulations.

This is not a specification!

The responses shown represent the typical response for each part type. Specific responses may vary, depending on manufacturing variation affects of all parameters involved, including the specified tolerances applied to capacitance and unspecified variations of ESR, ESL, and leakage resistance.

The responses shown do not represent a specified or implied maximum capability of the device for all applications.

- The ESR used for ripple "Ripple Current/Voltage vs. Frequency" plots is the ESR at ambient temperature.
- The ESR in the "Temperature Rise vs. Ripple Current" plots is adjusted to each incremental temperature rise before the power and ripple current is calculated.
- The effects shown herein are based on measured data from a multiple part sample of the parts in question.
- Ripple capability of this device will be factored by thermal resistance (Rth) created by circuit traces (addi affects of all parameters involved, including the specified tolerances applied to capacitance and unspecified variations of ESR, ESL, and leakage resistance.
- The peak voltages generated in the "Temperature Rise vs. Combined Ripple Currents" plot are

calculated for each frequency and are not combined with voltages generated at any other harmonics.

• Please consult with the catalog or field applications engineer for maximum capability of the device in specific applications.

All product information and data (collectively, the "Information") are subject to change without notice.

KEMET K-SIM is designed to simulate behavior of components with respect to frequency, ambient temperature, and DC bias levels. The responses shown represent the typical response for each part type. Specific responses may vary, depending on manufacturing variation effects of all parameters involved, including the specified tolerances applied to capacitance and unspecified variations of ESR, ESL, and leakage resistance.

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If you have any questions please contact K-SIM.