

T513X336K035AH6110

T513 HRA, Tantalum, MnO2 Tantalum, HRA Multi-Anode, 33 uF, 10%, 35 VDC, SMD, MnO2, Molded, Military Equivalent, MAT High Reliability, N/A, 65 mOhms, 7343, 4.3 mm, 1.3 mm

CATHODE (-) END VIEW SIDE VIEW W Ĥ • S ----- |- s-— G -Termination cutout at KEMET's option, either end BOTTOM VIEW ANODE (+) END VIEW A

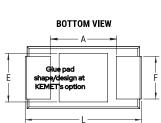


P-

Dimension

L w Н т s F А В Е G Р

R Х



B

Click here for the 3D model.

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 - https://www.p65warnings.ca.gov /
SCIP Number	b064b03e-bd75-42af-b342-1fe 94dec2340
Termination	Tin Lead (SnPb)
AEC-Q200	No
Typical Component Weight	430.15 mg

IS		Specifications
	7.3mm +/-0.3mm	Capacitance
	4.3mm +/-0.3mm	Tolerance
	4mm +/-0.3mm	Voltage DC
	0.13mm REF	
	1.3mm +/-0.3mm	Temperature Rar
	2.4mm +/-0.1mm	Rated Temperatu
	3.8mm MIN	Dissipation Facto
		Failure Rate
	0.5mm +/-0.15mm	ESR
	3.5mm REF	
	3.5mm REF	Ripple Current
	1.7mm REF	Leakage Current
	1mm REF	Testing and Relia
	0.1mm +/-0.1mm REF	

Packaging Specifications	
Packaging	T&R, 178mm
Packaging Quantity	500

Specifications	
Capacitance	33 uF
Tolerance	10%
Voltage DC	35 VDC (85C), 23.45 VDC (125C)
Temperature Range	-55/+125°C
Rated Temperature	85°C
Dissipation Factor	6% 120Hz 25C
Failure Rate	N/A
ESR	65 mOhms (100kHz 25C)
Ripple Current	1590 mA (rms, 100kHz 25C)
Leakage Current	11.6 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.

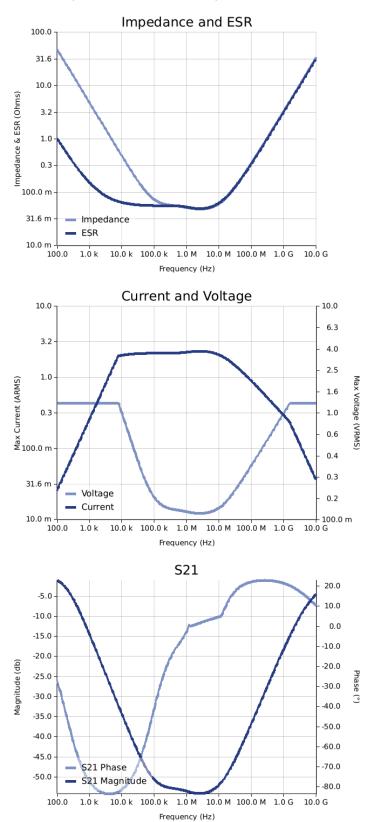


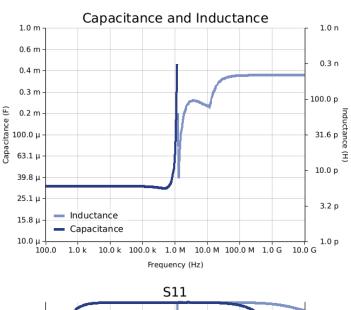
T513X336K035AH6110

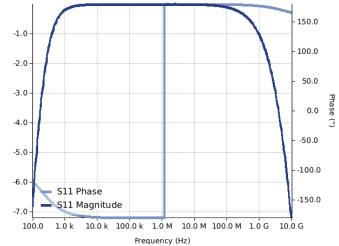
T513 HRA, Tantalum, MnO2 Tantalum, HRA Multi-Anode, 33 uF, 10%, 35 VDC, SMD, MnO2, Molded, Military Equivalent, MAT High Reliability, N/A, 65 mOhms, 7343, 4.3 mm, 1.3 mm

Simulations

For the complete simulation environment please visit K-SIM.







Magnitude (db)



T513X336K035AH6110

T513 HRA, Tantalum, MnO2 Tantalum, HRA Multi-Anode, 33 uF, 10%, 35 VDC, SMD, MnO2, Molded, Military Equivalent, MAT High Reliability, N/A, 65 mOhms, 7343, 4.3 mm, 1.3 mm

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 used for hipple klipple current younge vs. requericy plots is the ESR at an bient 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 and the part of the parts of the part of the
- 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.

All Information given herein is believed to be accurate and reliable, but is presented without guarantee, warranty, or responsibility of any kind, expressed or implied. All information given nerein is believed to be accurate and reliable, but is presented without guarantee, warranty, or responsibility of any kind, expressed or implied. 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.

If you have any questions please contact K-SIM.