

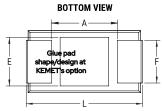
# T543D475M063AHE075

T543 HRA, Tantalum, Polymer Tantalum, HRA, 4.7 uF, 20%, 63 VDC, SMD, Polymer, Molded, Up Screening, N/A, 75 mOhms, 7343, 3.1 mm, 1.3 mm

CATHODE (-) END VIEW SIDE VIEW W - G -S S Termination cutout at KEMET's option, either end BOTTOM VIEW ANODE (+) END VIEW Α



P



Click here for the 3D model.

General Information		
Series	T543 HRA	
Dielectric	Polymer Tantalum	
Style	SMD Chip	
Description	SMD, Polymer, Molded, Up Screening	
Features	Non-Combustible, Low ESR, High Reliability	
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	352.36 mg	
Shelf Life	52 Weeks	
MSL	3	

Dimensions	
L	7.3mm +/-0.3mm
W	4.3mm +/-0.3mm
н	2.8mm +/-0.3mm
Т	0.13mm REF
S	1.3mm +/-0.3mm
F	2.4mm +/-0.1mm
A	3.8mm MIN
В	0.5mm +/-0.15mm
E	3.5mm REF
G	3.5mm REF
Р	0.9mm REF
R	1mm REF
Х	0.1mm +/-0.1mm REF

#### Specifications Capacitance 4.7 uF 20% Tolerance Voltage DC 63 VDC (105C), 42.21 VDC (125C) **Temperature Range** -55/+125°C **Rated Temperature** 105°C Humidity 60C, 90% RH, 500 Hours **Dissipation Factor** 10% 120Hz 25C Failure Rate N/A ESR 75 mOhms (100kHz) **Ripple Current** 1732 mA (rms, 100kHz 45C) 30 uA (5min 25°C) Leakage Current **Testing and Reliability** Standard Testing Only

## **Packaging Specifications** Packaging

Packaging	T&R, 178mm
Packaging Quantity	500

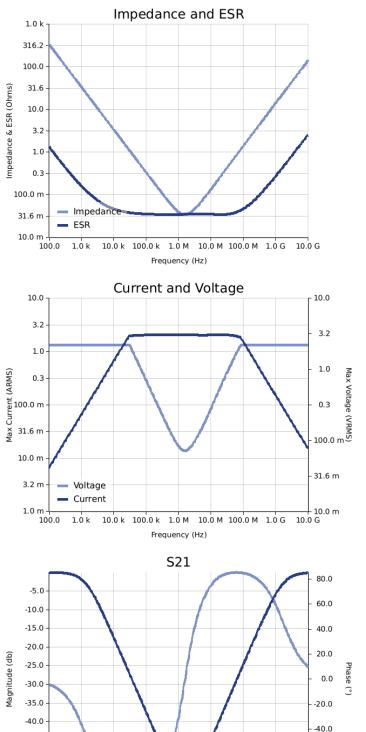
Statements of suitability for certain applications are based on our knowledge of typical operating conditions for such applications, but are not intended to constitute - and we specifically disclaim - any warranty concerning suitability for a specific customer application or use. This Information is 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.



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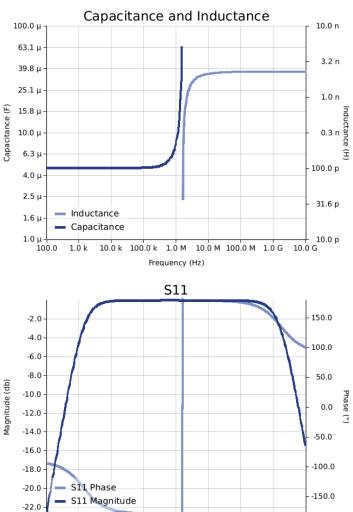
Simulations

For the complete simulation environment please visit K-SIM.



10.0 k 100.0 k 1.0 M 10.0 M 100.0 M 1.0 G 10.0 G

Frequency (Hz)



1.0 k 10.0 k 100.0 k 1.0 M 10.0 M 100.0 M 1.0 G 10.0 G

Frequency (Hz)

100.0

-60.0

-80.0

100.0

-45.0

-50.0

-55 0

S21 Phase
S21 Magnitude

1.0 k



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#### 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 is the "Temperature Rise vs. 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.