

T543X477K006AHE005

T543 HRA, Tantalum, Polymer Tantalum, HRA, 470 uF, 10%, 6.3 VDC, SMD, Polymer, Molded, Up Screening, N/A, 5 mOhms, 7343, 4.3 mm, 1.3 mm

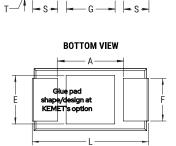
CATHODE (-) END VIEW W Ĥ

Termination cutout at KEMET's option, either end

Р



ANODE (+) END VIEW



SIDE VIEW

В

- G ·

-S

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	588.16 mg
Shelf Life	52 Weeks
MSL	3

Dimensions	
L	7.3mm +/-0.3mm
W	4.3mm +/-0.3mm
Н	4mm +/-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
Ρ	1.7mm REF
R	1mm REF
Х	0.1mm +/-0.1mm REF

SpecificationsCapacitance470 uFTolerance10%Voltage DC 6.3 VDC (105C), 4.22 VDC (125C)Temperature Range-55/+125°CRated Temperature105°CHumidity60C, 90% RH, 500 HoursDissipation Factor10% 120Hz 25CFailure RateN/AESR5 mOhms (100kHz)Ripple Current296.1 uA (5min 25°C)	MSL	3
Tolerance10%Voltage DC 6.3 VDC (105C), 4.22 VDC (125C)Temperature Range $-55/+125^{\circ}$ CRated Temperature105°CHumidity $60C, 90\%$ RH, 500 HoursDissipation Factor 10% 120Hz 25CFailure RateN/AESR 5 mOhms (100kHz)Ripple Current 7029 mA (rms, 100kHz 45C)	Specifications	
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ESR5 mOhms (100kHz)Ripple Current7029 mA (rms, 100kHz 45C)	Dissipation Factor	10% 120Hz 25C
Ripple Current7029 mA (rms, 100kHz 45C)	Failure Rate	N/A
	ESR	5 mOhms (100kHz)
Leakage Current 296.1 uA (5min 25°C)	Ripple Current	7029 mA (rms, 100kHz 45C)
	Leakage Current	296.1 uA (5min 25°C)

Standard Testing Only

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

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.

Testing and Reliability

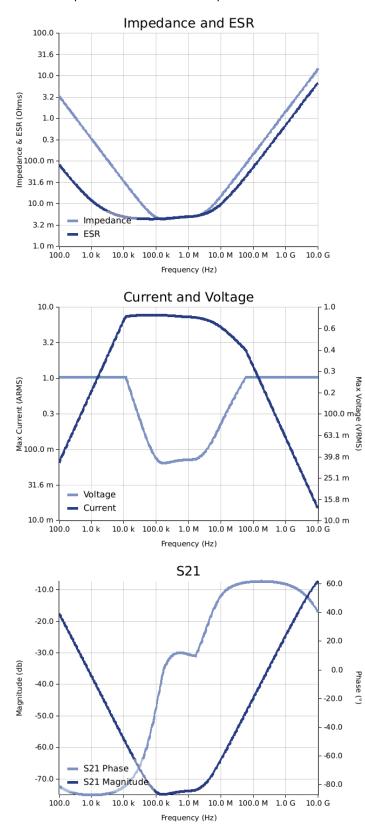


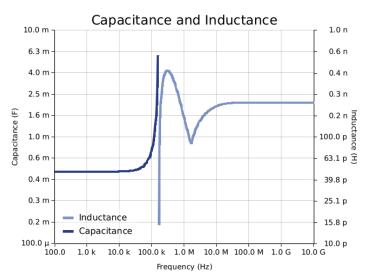
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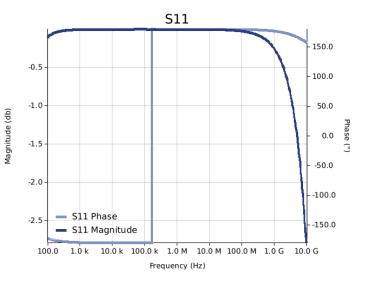
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Simulations

For the complete simulation environment please visit K-SIM.









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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 used for http:// Ripple Current/ voltage vs. requertly plots is the ESR at an other 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.

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. 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.