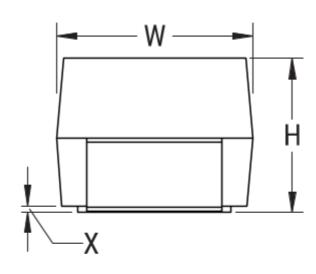
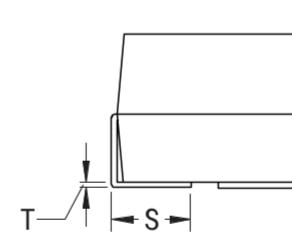
T545V476M016ATE070

T545, Tantalum, Polymer Tantalum, 47 uF, 20%, 16 VDC, SMD, Polymer, Molded, Low Profile, HiEnergyDensity, 70 mOhms, 7343, Height Max = 2mm

CATHODE (-) END VIEW

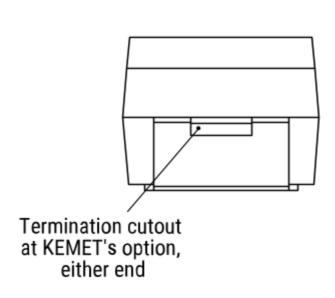
SIDE

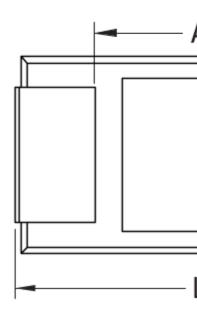




ANODE (+) END VIEW

BOTTO





Click here for the 3D model.

Dimensions

Footprint 7343

| L | 7.3mm +/-0.3mm |
|---|----------------|
| W | 4.3mm +/-0.3mm |
| Н | 1.9mm +/-0.1mm |

Dimensions

T 0.13mm REF

S 1.3 mm + /-0.3 mm

F 2.4mm +/-0.1mm

3.8mm MIN A

X 0.05mm REF

Packaging Specifications

T&R, 178mm **Packaging**

Packaging Quantity 1000

General Information

Series T545

Dielectric Polymer Tantalum

SMD Chip Style

Description SMD, Polymer, Molded, Low Profile, HiEnergyDensity

Features Low ESR

RoHS Yes **Termination** Tin AEC-Q200 No

Component Weight 262.9 mg Shelf Life 52 Weeks

MSL 3

Specifications

Capacitance 47 uF

Capacitance

20%

Tolerance

Voltage DC 16 VDC (105C)

Temperature Range -55/+105°C

Rated Temperature 105°C

Humidity 60C, 90% RH, 500 Hours, No Load

Dissipation Factor 10% 120Hz 25C

Failure Rate N/A

Resistance 70 mOhms (100kHz 25C)

1640 mA (rms, 100kHz 45C), 1148 mA (rms, 85C), 410 mA (rms,

Ripple Current 105C)

75.2 uA (5min 25°C) Leakage Current

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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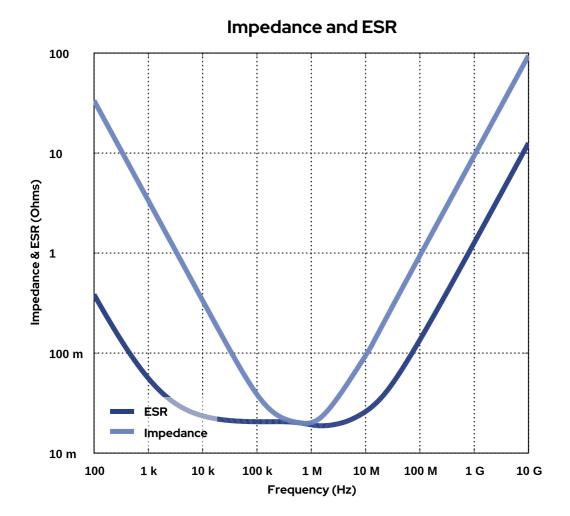
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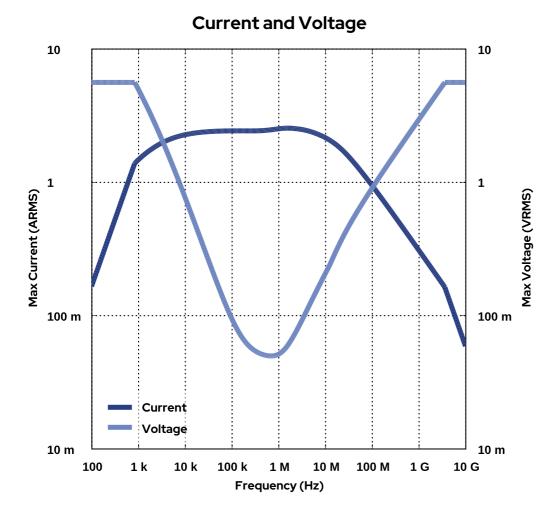
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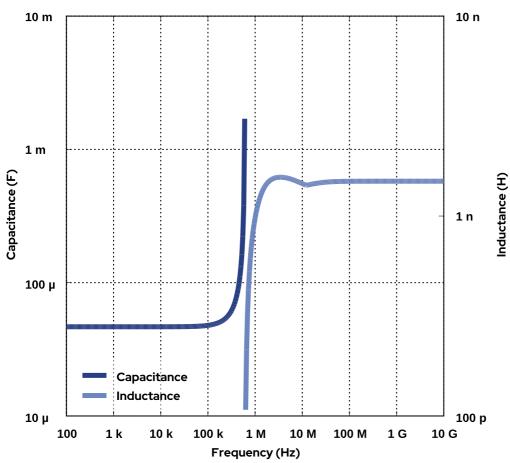
Simulations

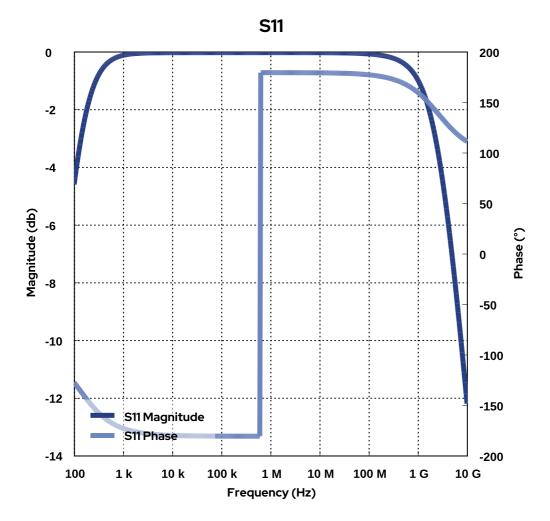
For the complete simulation environment please visit $\underline{\text{K-SIM}}$.

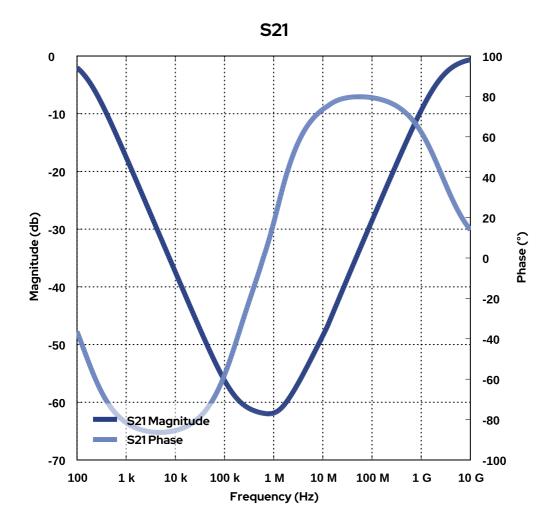




Capacitance and Inductance







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.