

T521V157M016ATE100

General Information

Series

T521, Tantalum, Polymer Tantalum, Commercial Grade, 150 uF, 20%, 16 VDC, SMD, Polymer, Molded, Low ESR, Non-Combustible, 100 mOhms, 7343, 2 mm, 1.3 mm

CATHODE (-) END VIEW Bevel at KEMET's discretion discretion Termination cutout at KEMET's option, either end ANODE (+) END VIEW Glue pad shape/design at KEMET's option

Dielectric Polymer Tantalum Style SMD Chip SMD, Polymer, Molded, Low ESR, Non-Combustible Description Features Low ESR, High Voltage RoHS Yes Termination Tin AEC-Q200 No 274.3 mg **Typical Component Weight** Shelf Life 52 Weeks MSL 3

T521

Specifications	
Capacitance	150 uF
Tolerance	20%
Voltage DC	16 VDC (105C)
Temperature Range	-55/+105°C
Rated Temperature	105°C
Life	2000 Hrs (105C)
Humidity	60C, 90% RH, 500 Hours, No Load
Dissipation Factor	10% 120Hz 25C
Failure Rate	N/A
ESR	100 mOhms (100kHz 25C)
Ripple Current	1640 mA (rms, 100kHz 45C), 1148 mA (rms, 85C), 410 mA (rms, 105C)
Leakage Current	240 uA (5min 25°C)

Dimensions	
L	7.3mm +/-0.3mm
W	4.3mm +/-0.3mm
н	1.9mm +/-0.1mm
т	0.13mm REF
S	1.3mm +/-0.3mm
F	2.4mm +/-0.1mm
A	3.8mm MIN
х	0.05mm REF

Click here for the 3D model.

Packaging SpecificationsPackagingT&R, 178mmPackaging Quantity1000

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.

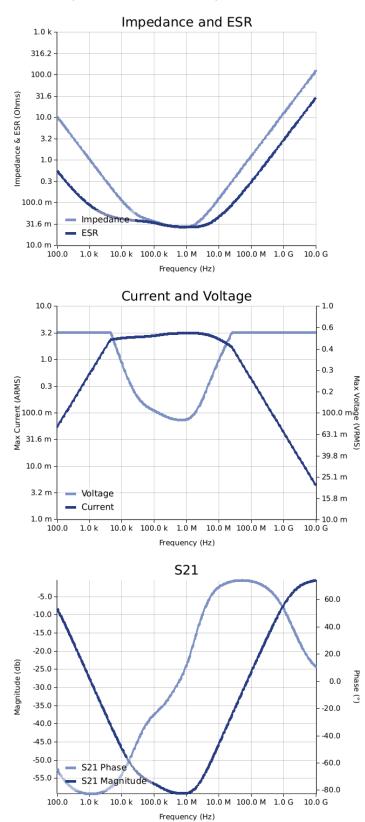


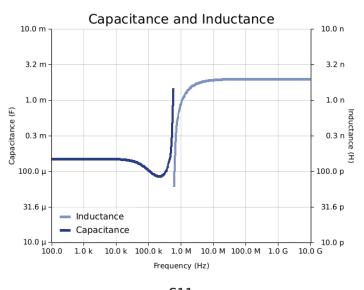
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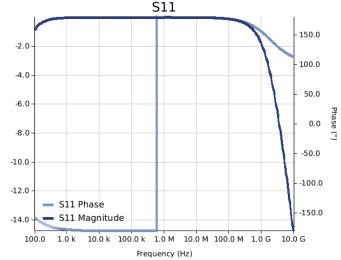
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Simulations

For the complete simulation environment please visit K-SIM.







Magnitude (db)



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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 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 are applied to reach previous the burger of the parts.
- 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.