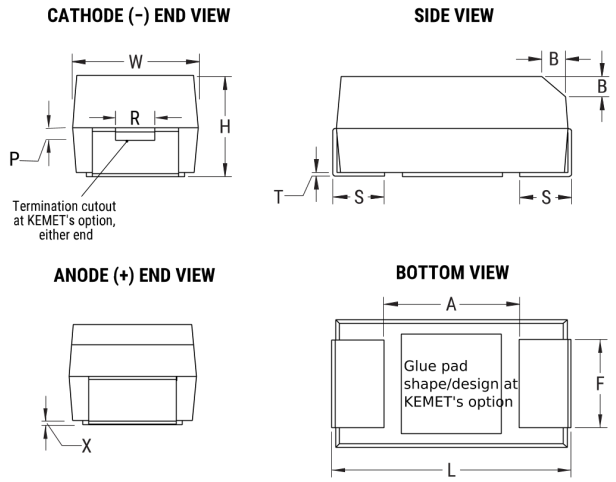
T521D107M016ATE050

T521, Tantalum, Polymer Tantalum, Commercial Grade, 100 uF, 20%, 16 VDC, SMD, Polymer, Molded, Low ESR, Non-Combustible, 50 mOhms, 7343, 3.1mm



Click here for the 3D model.

Dimensions

Footprint	7343
L	7.3mm +/-0.3mm
W	4.3mm +/-0.3mm
H	2.8mm +/-0.3mm
T	0.13mm REF
S	1.3mm +/-0.3mm
F	2.4mm +/-0.1mm
A	3.8mm MIN
B	0.5mm +/-0.15mm
P	0.9mm REF
R	1mm REF
X	0.1mm +/-0.1mm REF

Packaging Specifications

Packaging	T&R, 178mm
Packaging Quantity	500

General Information

Series	T521
Dielectric	Polymer Tantalum
Style	SMD Chip
Description	SMD, Polymer, Molded, Low ESR, Non-Combustible
Features	Low ESR, High Voltage
RoHS	Yes
Termination	Tin
AEC-Q200	No
Typical Component Weight	434.83 mg
Shelf Life	52 Weeks
MSL	3

Specifications

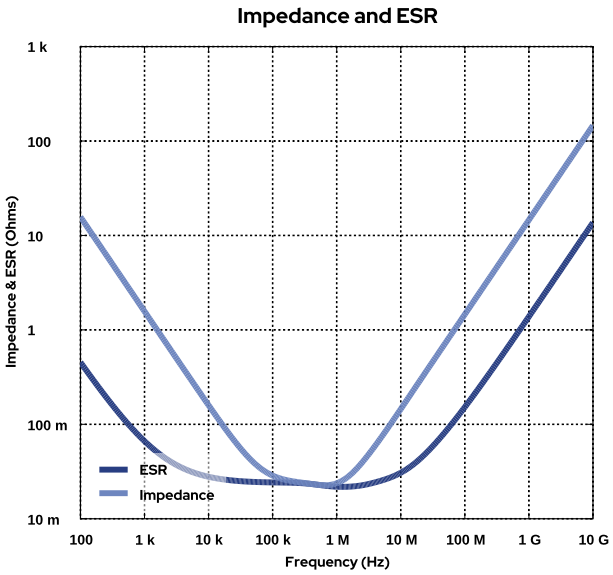
Capacitance	100 uF
Capacitance Tolerance	20%
Voltage DC	16 VDC (105C)
Temperature Range	-55/+105°C
Rated Temperature	105°C
Life	2000 Hrs (105C)
Humidity	60C, 90% RH, 500 Hours, No Load
Dissipation Factor	10% 120Hz 25C
Failure Rate	N/A
ESR	50 mOhms (100kHz 25C)
Ripple Current	2510 mA (rms, 100kHz 45C), 1757 mA (rms, 85C), 627.5 mA (rms, 105C)
Leakage Current	160 uA (5min 25°C)

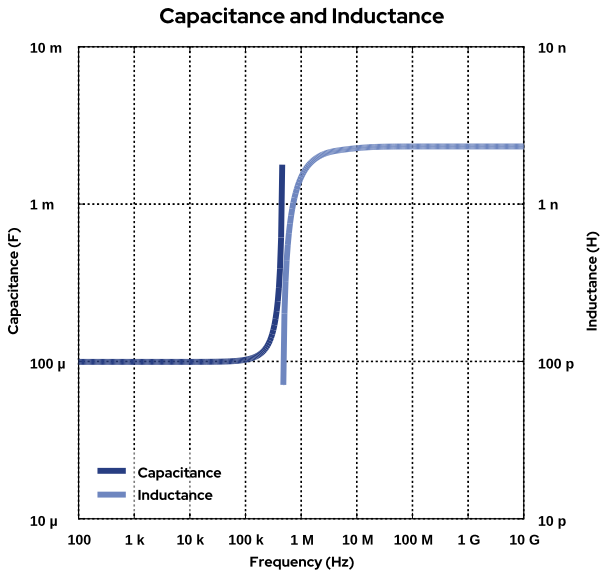
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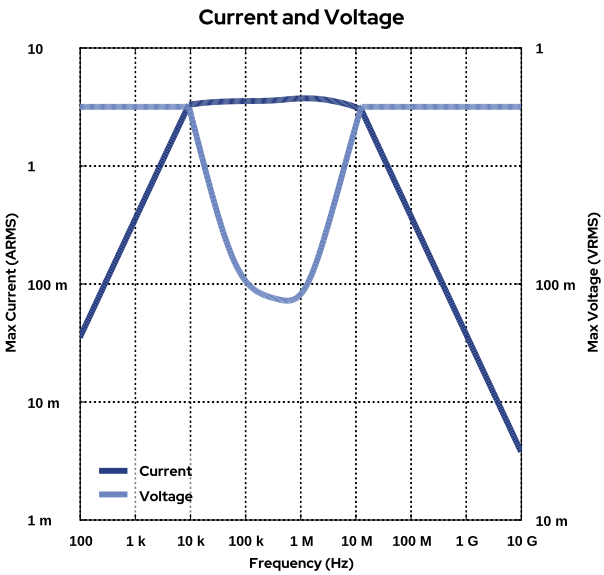
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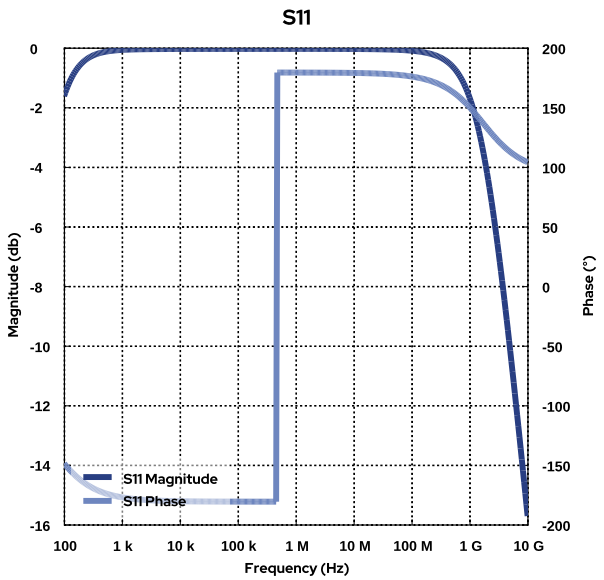
Simulations

For the complete simulation environment please visit K-SIM.





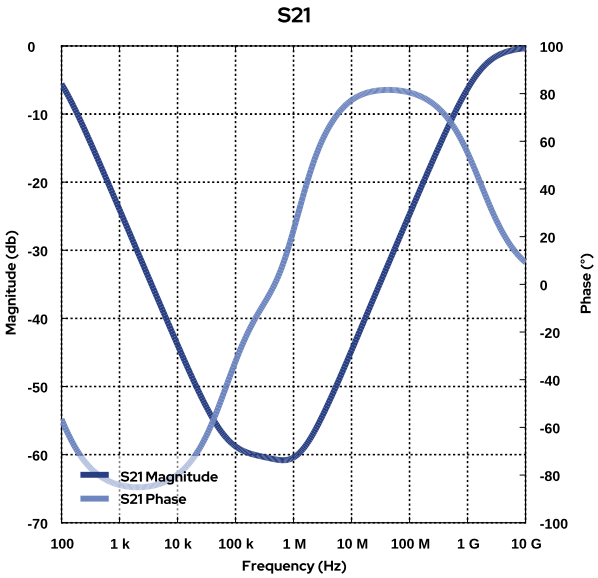




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These are simulations.

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 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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Global Electronic Components Distributor

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KEMET:

LDEDD4100KA0N00 RSBEC1470AA00K T496X227K010ATE500 C1206C222K2RACTU SS26V-080350 C4AQLBU5160M11K CBR04C180F2GAC CBR04C808B5GAC MPX1D1235L1R0 CBR04C339B5GAC MPX1D1740L6R8 MPXV1D1054L100 R66ID3220AA7AK C0603C160J5GACTU C0805X221M5RACTU SN8S-40P2 T498X106K050ATE500 C0603C273K1RACTU C0603C470K5RACAUTO C0805C473K2RACTU GTX-2200-Y0X PEH532RDG4180M2 R413F1100CK00M RM4A(025)-185X70T0800 SBC4-471-491 C0603X339C5GACTU C0805C339D5GACTU EXV227M050A9PAA SNT-D30T T350A104K035AT