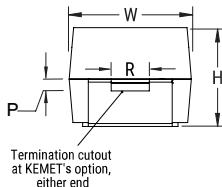
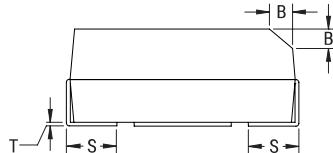
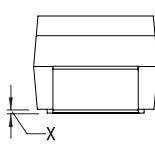
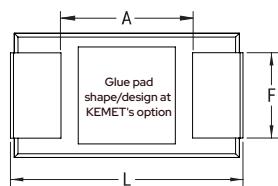


CATHODE (-) END VIEW

SIDE VIEW

ANODE (+) END VIEW

BOTTOM VIEW

[Click here for the 3D model.](#)
General Information

Series	T521
Dielectric	Polymer Tantalum
Style	SMD Chip
Description	SMD, Polymer, Molded, Low ESR, Non-Combustible
Features	Low ESR, High Voltage
RoHS	No
Prop 65	WARNING: Cancer and reproductive harm - https://www.p65warnings.ca.gov/
SCIP Number	b064b03e-bd75-42af-b342-1fe94dec2340
Termination	Tin Lead (SnPb)
AEC-Q200	No
Typical Component Weight	434.83 mg
Shelf Life	52 Weeks
MSL	3

Dimensions
Specifications

L	7.3mm +/-0.3mm	Capacitance	6.8 uF
W	4.3mm +/-0.3mm	Tolerance	20%
H	2.8mm +/-0.3mm	Voltage DC	63 VDC (105C), 42.21 VDC (125C)
T	0.13mm REF	Temperature Range	-55/+125°C
S	1.3mm +/-0.3mm	Rated Temperature	105°C
F	2.4mm +/-0.1mm	Life	2000 Hrs (125C)
A	3.8mm MIN	Humidity	60C, 90% RH, 500 Hours, No Load
B	0.5mm +/-0.15mm	Dissipation Factor	10% 120Hz 25C
P	0.9mm REF	Failure Rate	N/A
R	1mm REF	ESR	75 mOhms (100kHz 25C)
X	0.1mm +/-0.1mm REF	Ripple Current	2050 mA (rms, 100kHz 45/85C), 1435 mA (rms, 105C), 512.5 mA (rms, 125C)
		Leakage Current	42.8 uA (5min 25°C)

Packaging Specifications

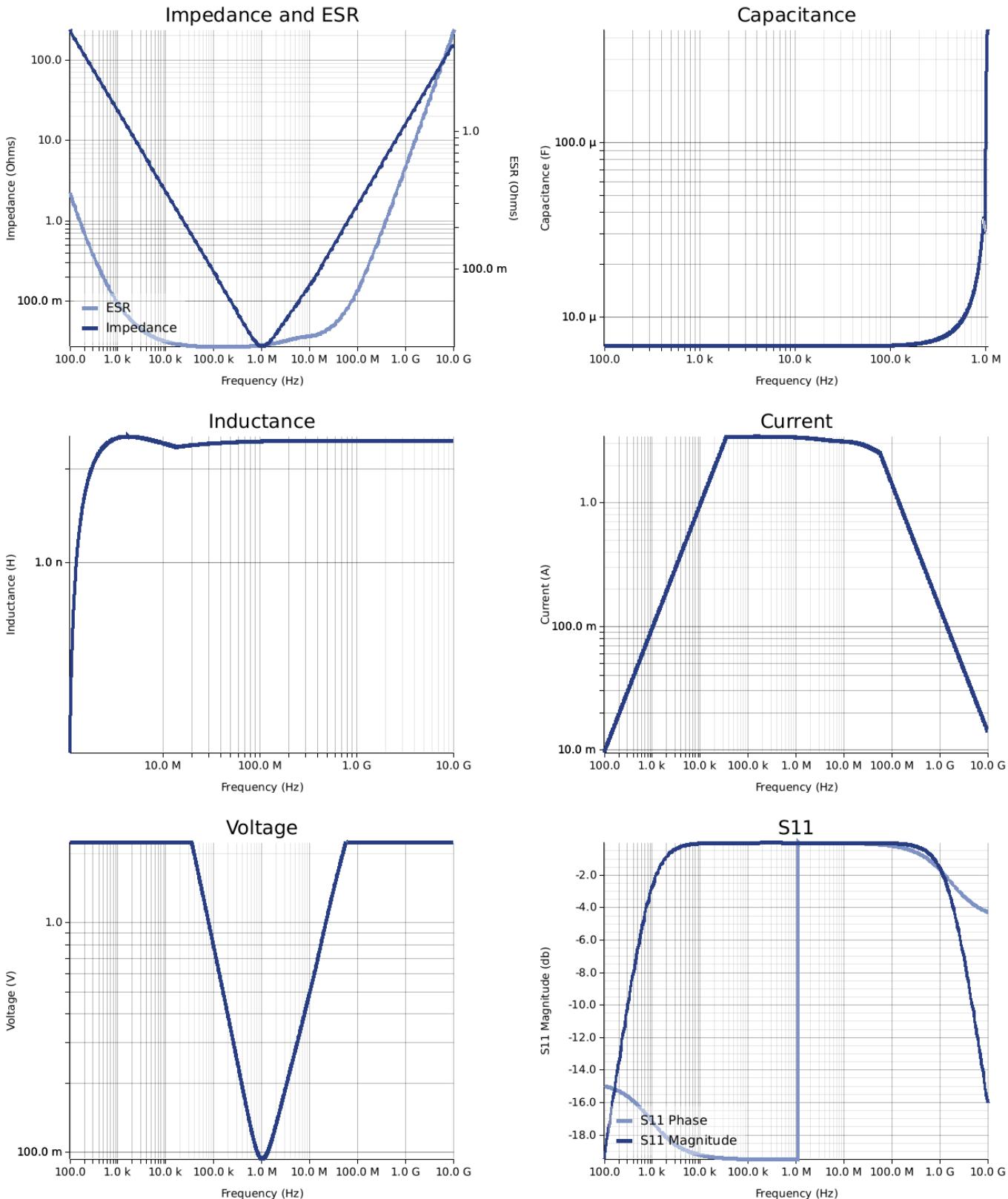
Statements of suitability for certain applications are based on our knowledge of typical operating conditions for such applications, but are not intended to constitute - and we specifically disclaim - any warranty concerning suitability for a specific customer application or use. This Information is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

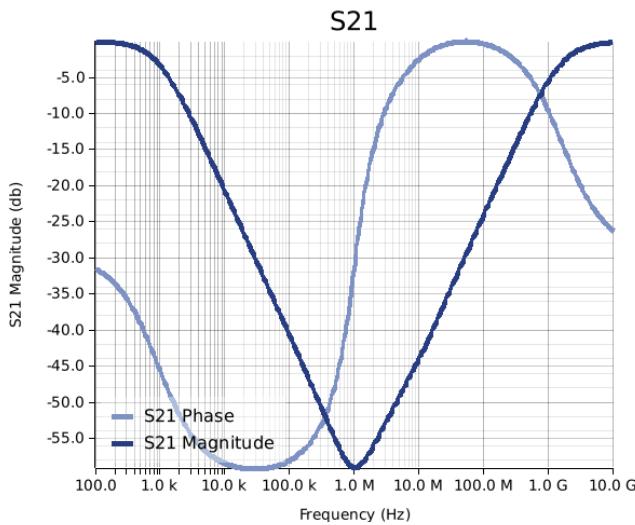
Packaging T&R, 178mm

Packaging Quantity 500

Simulations

For the complete simulation environment please visit [Y-SIM](#).





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 (R_{th}) 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.