

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

General Information

Series	T529
Dielectric	Polymer Tantalum
Style	SMD Chip
Description	SMD, Polymer, Substrate
Features	Substrate
RoHS	Yes
Termination	Gold
AEC-Q200	No
Typical Component Weight	11.4 mg
Shelf Life	52 Weeks
MSL	3

Dimensions

Footprint	2012
L	2mm +/-0.1mm
W	1.25mm +/-0.1mm
H	1mm MAX
S	0.55mm +/-0.1mm
F	0.9mm +/-0.1mm

Packaging Specifications

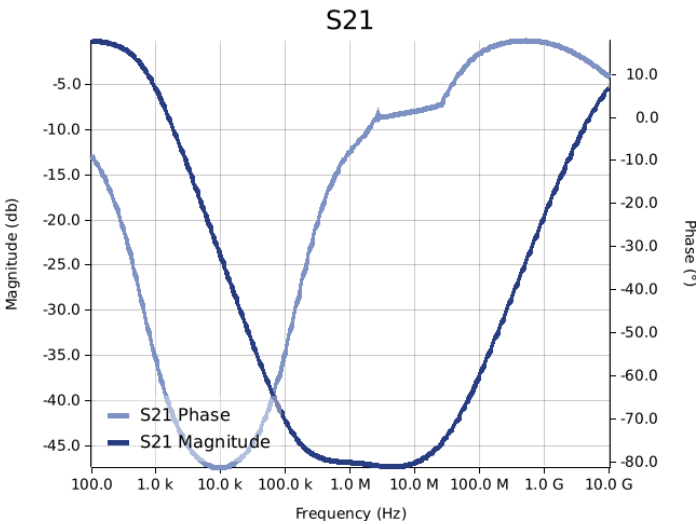
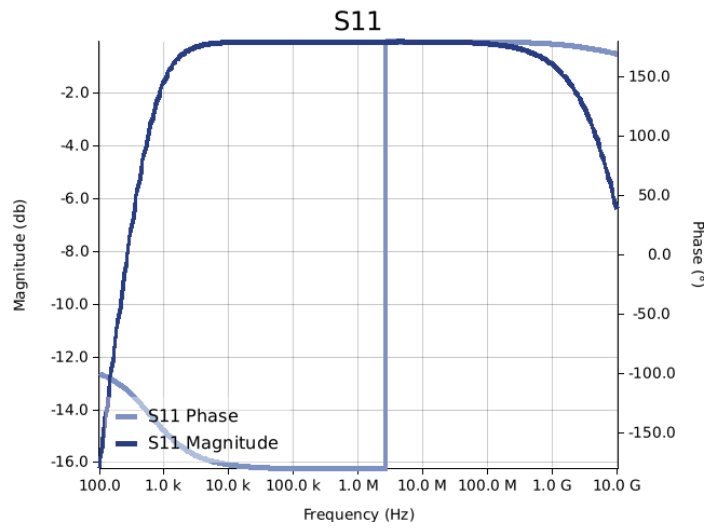
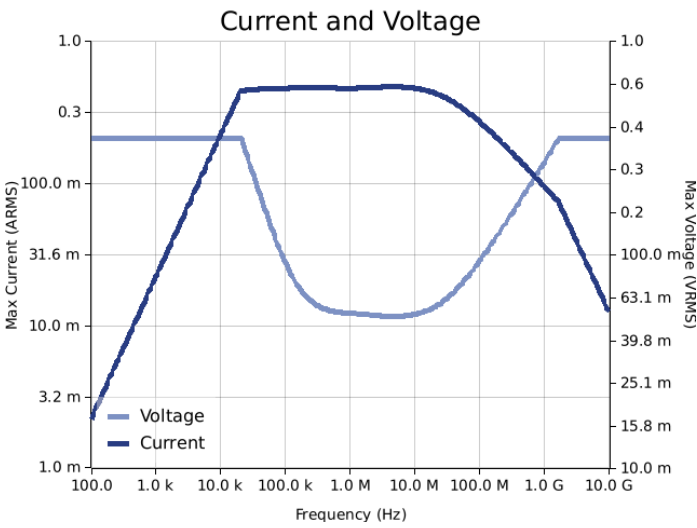
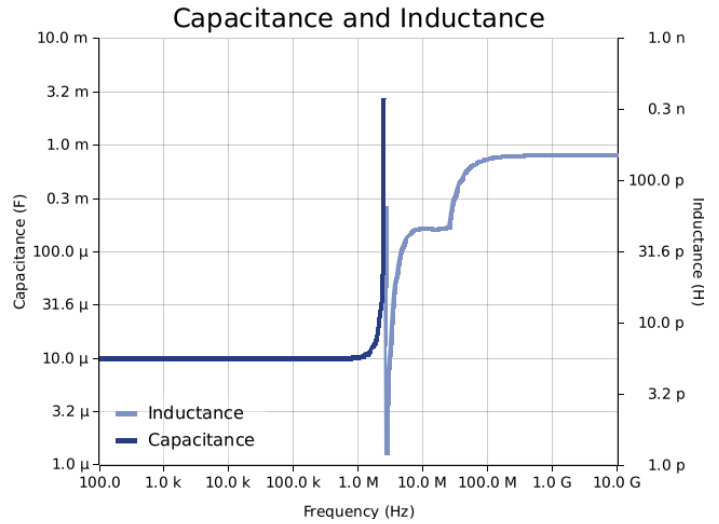
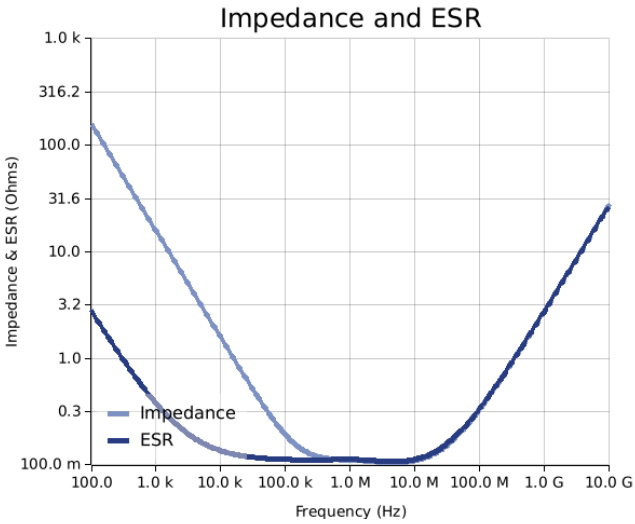
Packaging	T&R, 178mm
Packaging Quantity	3000

Specifications

Capacitance	10 uF
Capacitance Tolerance	20%
Voltage DC	10 VDC (105C)
Temperature Range	-55/+105°C
Rated Temperature	105°C
Life	1000 Hrs (105C)
Humidity	60C, 90% RH, 500 Hours, No Load
Dissipation Factor	6% 120Hz 25C
Failure Rate	N/A
ESR	200 mOhms (100kHz 25C)
Ripple Current	354 mA (rms, 100kHz 45C), 318.6 mA (rms, 85C), 141.6 mA (rms, 105C)
Leakage Current	30 uA (5min 25°C)

Simulations

For the complete simulation environment please visit [K-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 effects 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.