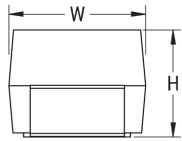
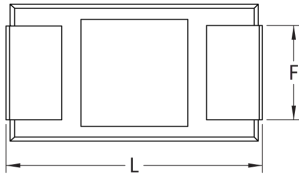
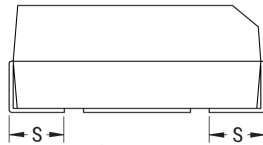


### BOTTOM VIEW



CATHODE (-) END VIEW



SIDE VIEW

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

### Dimensions

L	24.5mm +/-0.5mm
W	8.5mm +/-0.5mm
H	9.1mm +/-0.5mm
S	3mm +/-0.3mm
F	4.2mm +/-0.5mm

### Packaging Specifications

Packaging	Bulk, Box
Packaging Quantity	100

### General Information

Series	T555
Dielectric	Polymer Tantalum
Style	SMD Chip
RoHS	No
Prop 65	<b>⚠ WARNING:</b> Cancer and reproductive harm - <a href="http://www.p65warnings.ca.gov">http://www.p65warnings.ca.gov</a> .
SCIP Number	fa70b84a-ebdb-4f97-bf07-19fe562c6755
Termination	Solder Coated
AEC-Q200	No
Component Weight	5.54 g
Shelf Life	156 Weeks

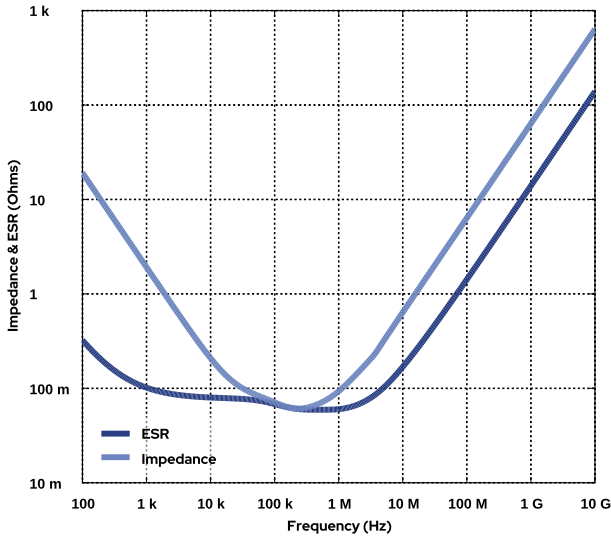
### Specifications

Capacitance	82 uF
Capacitance Tolerance	10%
Voltage DC	75 VDC, 58.5 VDC (105°C), 86.25 VDC (85°C)
Temperature Range	-55/+105°C
Rated Temperature	85°C
Life	2000 Hrs
Humidity	40C, 60% RH
Dissipation Factor	5% 120Hz 25C
Failure Rate	N/A
Resistance	220 mOhm (100kHz 25C)
Ripple Current	1800 mAmps (40kHz 85C)
Leakage Current	57.6 uA (5min 25°C)

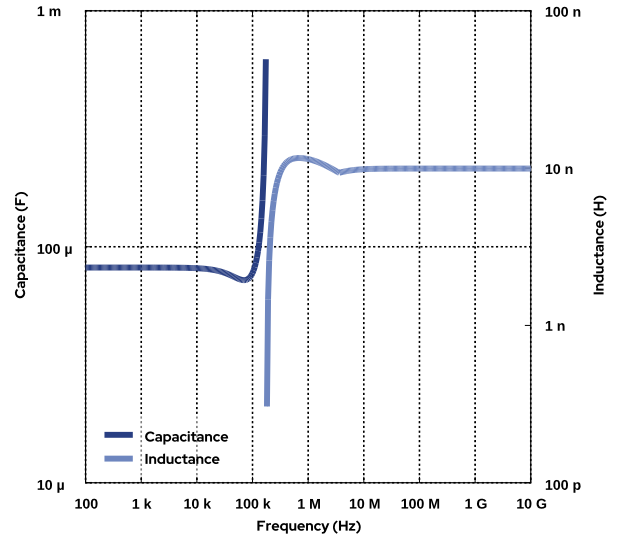
## Simulations

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

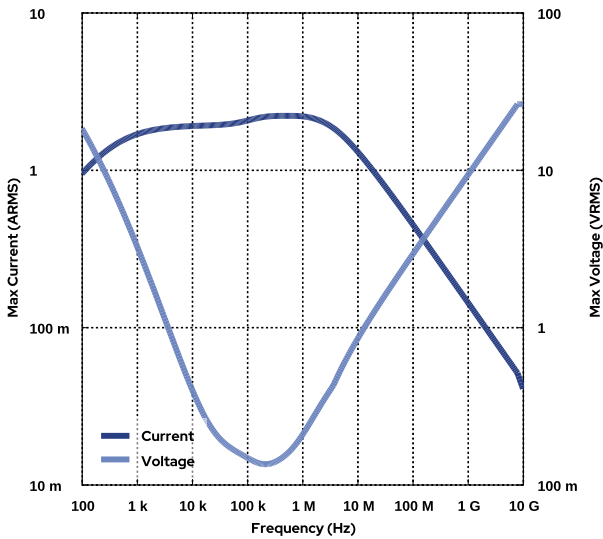
**Impedance and ESR**



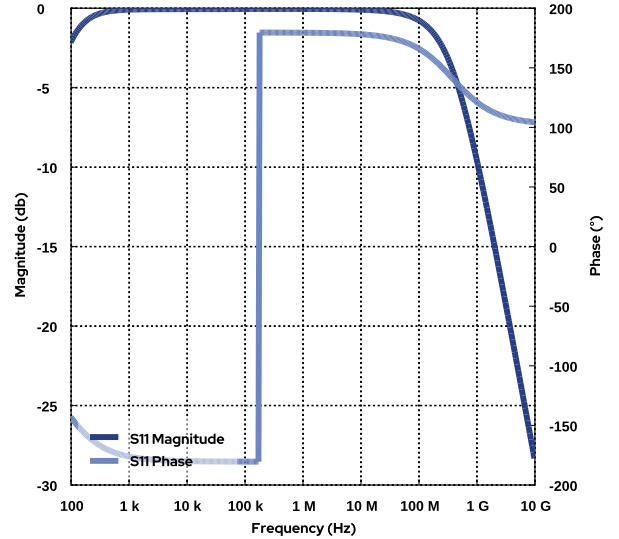
**Capacitance and Inductance**

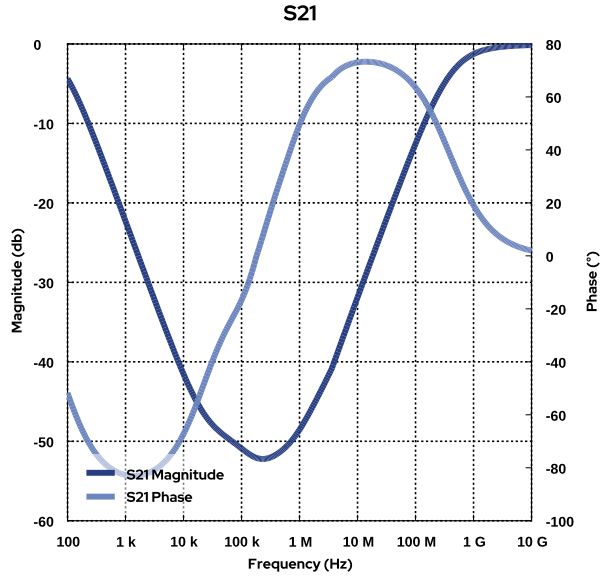


**Current and Voltage**



**S11**





**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.