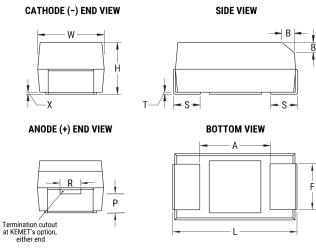


T598, Tantalum, Polymer Tantalum, 680 uF, 20%, 6.3 VDC, SMD, Polymer, Molded, Low ESR, AEC-Q200, 25 mOhms, 7343, Height Max = 4.3mm



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Dimensions		
Footprint	7343	
L	7.3mm +/-0.3mm	
W	4.3mm +/-0.3mm	
Н	4mm +/-0.3mm	
Т	0.13mm REF	
S	1.3mm +/-0.3mm	
F	2.4mm +/-0.1mm	
A	3.6mm MIN	
В	0.5mm +/-0.15mm	
Р	1.7mm REF	
R	1mm REF	
X	0.1mm +/-0.1mm	

Packaging Specifications	
Weight	553.96 mg
Packaging	T&R, 178mm
Packaging Quantity	500

General Information				
Series	T598			
Dielectric	Polymer Tantalum			
Style	SMD Chip			
Description	SMD, Polymer, Molded, Low ESR, AEC-Q200			
Features	Automotive			
RoHS	Yes			
Termination	Tin			
Qualifications	AEC-Q200			
AEC-Q200	Yes			
Shelf Life	52 Weeks			
MSL	3			

Specifications				
Capacitance	680 uF			
Capacitance	20%			
Tolerance	20%			
Voltage DC	6.3 VDC (105C), 4.22 VDC (125C)			
Temperature	FF / 12F°C			
Range	-55/+125°C			
Rated	105°C			
Temperature	105 C			
Humidity	85C, 85% RH, load, 1000 Hours			
Dissipation Factor	10% 120Hz 25C			
Failure Rate	N/A			
Resistance	25 mOhms (100kHz 25C)			
Dinnla Current	4470 mA (rms, 100kHz 45C), 3129 mA (rms,			
Ripple Current	105C), 1118 mA (rms, 125C)			
Leakage Current	428.4 uA (5min 25°C)			

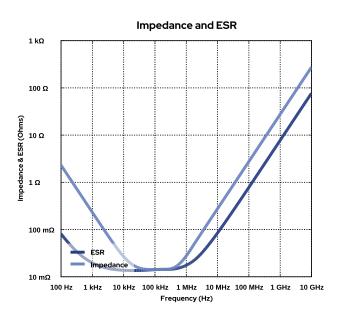
Statements of suitability for certain applications are based on our knowledge of typical operating conditions for such applications, but are not intended to constitute - and we specifically disclaim - any warranty concerning suitability for a specific customer application or use. This Information is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

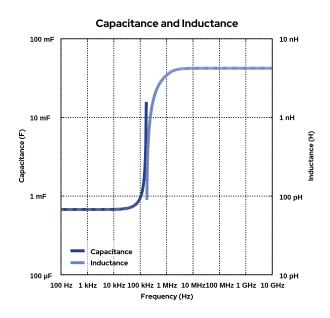


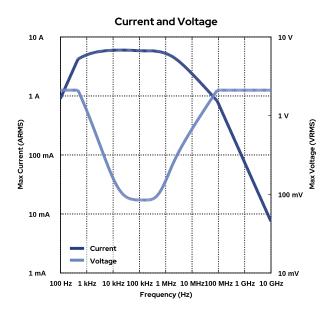
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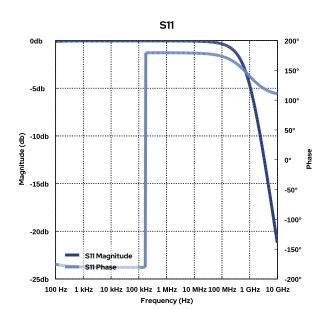
Simulations

For the complete simulation environment please visit K-SIM.



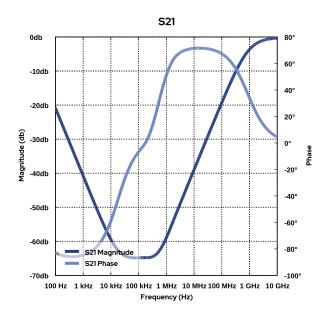








T598, Tantalum, Polymer Tantalum, 680 uF, 20%, 6.3 VDC, SMD, Polymer, Molded, Low ESR, AEC-Q200, 25 mOhms, 7343, Height Max = 4.3mm





T598, Tantalum, Polymer Tantalum, 680 uF, 20%, 6.3 VDC, SMD, Polymer, Molded, Low ESR, AEC-Q200, 25 mOhms, 7343, Height Max = 4.3mm

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.