

T598X687M006ATE025

General Information

T598, Tantalum, Polymer Tantalum, Commercial Grade, 680 uF, 20%, 6.3 VDC, SMD, Polymer, Molded, Low ESR, AEC-Q200, 25 mOhms, 7343, 4.3 mm, 1.3 mm

CATHODE (-) END VIEW



ANODE (+) END VIEW

BOTTOM VIEW Glue pad shapp/design at KEMETs option

SIDE VIEW

Se	eries	T598
Di	ielectric	Polymer Tantalum
St	tyle	SMD Chip
D	escription	SMD, Polymer, Molded, Low ESR, AEC-Q200
Fe	eatures	Automotive
R	oHS	Yes
Te	ermination	Tin
Q	ualifications	AEC-Q200
A	EC-Q200	Yes
Ту	ypical Component Weight	554 mg
Sł	helf Life	52 Weeks
М	ISL	3

Click here for the 3D mode	

Dimensions	
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	3.8mm MIN
В	0.5mm +/-0.15mm
Р	1.7mm REF
R	1mm REF
х	0.1mm +/-0.1mm REF

Packaging Specifications		
Packaging	T&R, 178mm	
Packaging Quantity	500	

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

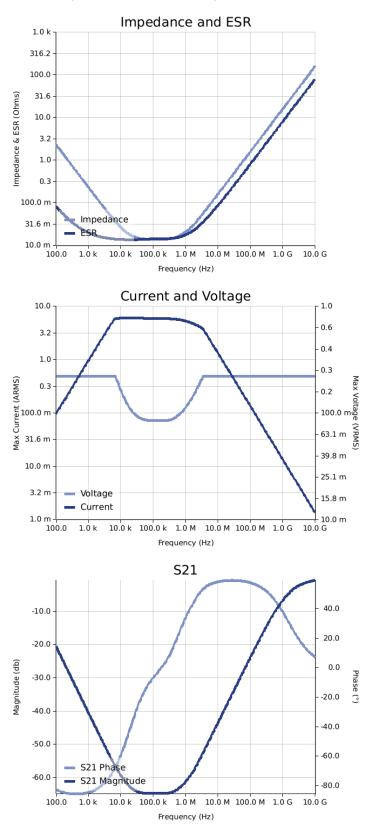


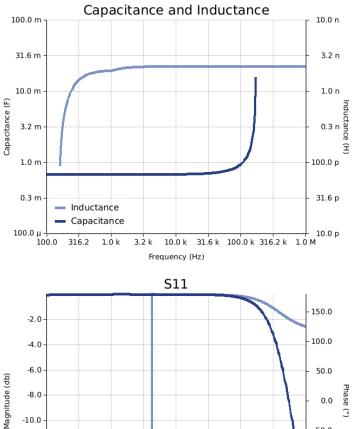
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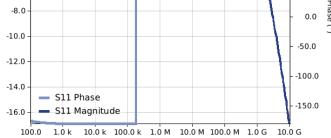
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Simulations

For the complete simulation environment please visit Y-SIM.







Frequency (Hz)



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VDC, SMD, Polymer, Molded, Low ESR, AEC-Q200, 25 mOhms, 7343, 4.3 mm, 1.3 mm T598, Tantalum, Polymer Tantalum, Commercial Grade, 680 uF, 20%, 6.3

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 used for hipple 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.

All Information given herein is believed to be accurate and reliable, but is presented without guarantee, warranty, or responsibility of any kind, expressed or implied. 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.

If you have any questions please contact K-SIM.