

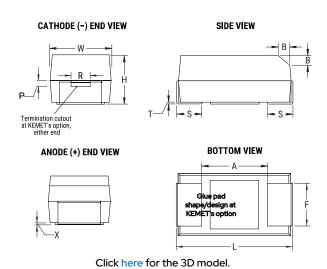
T598B475M035ATE200

General Information

Series

T598, Tantalum, Polymer Tantalum, Commercial Grade, 4.7 uF, 20%, 35 VDC, SMD, Polymer, Molded, Low ESR, AEC-Q200, 200 mOhms, 3528, 2 mm, 0.8 mm

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
	Typical Component Weight	94.9 mg
	Shelf Life	52 Weeks
	MSL	3

Dimensions		
L	3.5mm +/-0.2mm	
W	2.8mm +/-0.2mm	
Н	1.9mm +/-0.1mm	
Т	0.13mm REF	
S	0.8mm +/-0.3mm	
F	2.2mm +/-0.1mm	
A	1.1mm MIN	
В	0.4mm +/-0.15mm	
Р	0.5mm REF	
R	1mm REF	
х	0.1mm +/-0.1mm REF	

Specifications			
Capacitance	4.7 uF		
Tolerance	20%		
Voltage DC	35 VDC (105C), 23.45 VDC (125C)		
Temperature Range	-55/+125°C		
Rated Temperature	105°C		
Humidity	85C, 85% RH, load, 1000 Hours		
Dissipation Factor	8% 120Hz 25C		
Failure Rate	N/A		
ESR	200 mOhms (100kHz 25C)		
Ripple Current	820 mA (rms, 100kHz 45C), 574 mA (rms, 105C), 205 mA (rms, 125C)		
Leakage Current	16.5 uA (5min 25°C)		

Packaging Specifications		
Packaging	T&R, 178mm	
Packaging Quantity	2000	

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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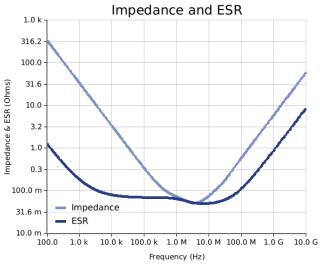


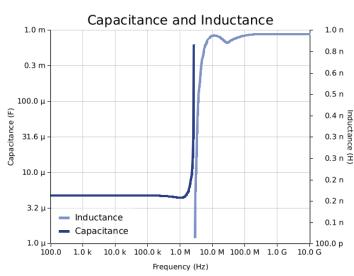
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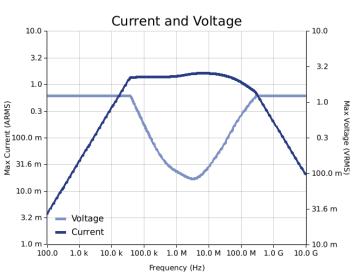
T598, Tantalum, Polymer Tantalum, Commercial Grade, $4.7\,\mathrm{uF}$, 20%, $35\,\mathrm{VDC}$, SMD, Polymer, Molded, Low ESR, AEC-Q200, 200 mOhms, 3528, $2\,\mathrm{mm}$, $0.8\,\mathrm{mm}$

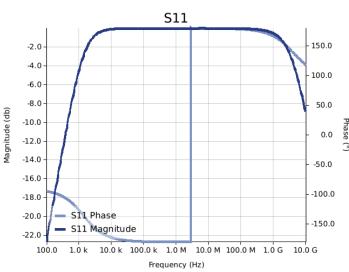
Simulations

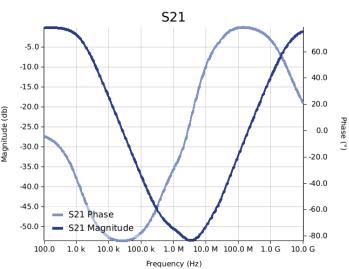
For the complete simulation environment please visit K-SIM.











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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.

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.

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