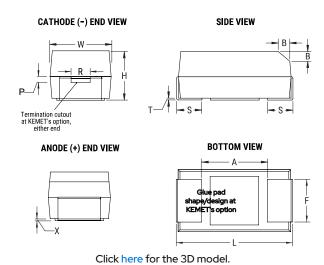


T598B476M006AHE070

T598, Tantalum, Polymer Tantalum, Commercial Grade, 47 uF, 20%, 6.3 VDC, SMD, Polymer, Molded, Low ESR, AEC-Q200, 70 mOhms, 3528, 2 mm, 0.8 mm



General Information		
Series	T598	
Dielectric	Polymer Tantalum	
Style	SMD Chip	
Description	SMD, Polymer, Molded, Low ESR, AEC-Q200	
Features	Automotive	
RoHS	No	
Prop 65	WARNING: Cancer and reproductive harm - https://www.p65warnings.ca.gov /	
SCIP Number	b064b03e-bd75-42af-b342-1fe 94dec2340	
Termination	Tin Lead (SnPb)	
Qualifications	AEC-Q200	
AEC-Q200	Yes	
Typical Component Weight	94.9 mg	
Shelf Life	52 Weeks	
MSL	3	

47 uF

20%

(125C)

6.3 VDC (105C), 4.22 VDC

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
P	0.5mm REF
R	1mm REF
Χ	0.1mm +/-0.1mm REF

2000

Packaging

Packaging Quantity

012mm DEE	0.13mm REF		
-		Temperature Range	-55/+125°C
5	0.8mm +/-0.3mm	Rated Temperature	105°C
F	2.2mm +/-0.1mm	Humidity	85C, 85% RH, load, 1000 Hours
A	1.1mm MIN	Hamilaity	83C, 83% KH, 108G, 1000 HOURS
В	0.4mm +/-0.15mm	Dissipation Factor	8% 120Hz 25C
_	•	Failure Rate	N/A
P	0.5mm REF	ESR	70 mOhms (100kHz 25C)
R	1mm REF		` ,
x	0.1mm +/-0.1mm REF	Ripple Current	1390 mA (rms, 100kHz 45C), 973 mA (rms, 105C), 347.5 mA (rms, 125C)
Packaging Specifications		Leakage Current	29.6 uA (5min 25°C)
Packaging	T&R, 178mm		

Specifications Capacitance

Tolerance

Voltage DC

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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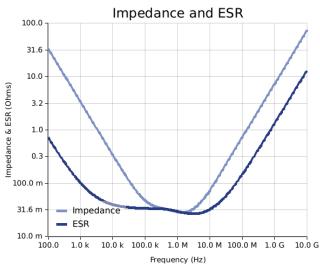


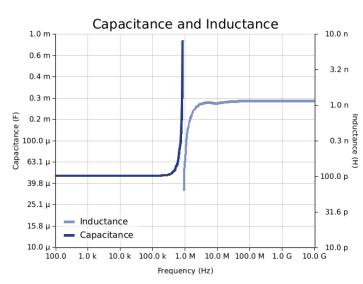
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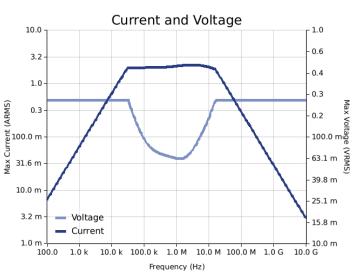
T598, Tantalum, Polymer Tantalum, Commercial Grade, 47 uF, 20%, 6.3 VDC, SMD, Polymer, Molded, Low ESR, AEC-Q200, 70 mOhms, 3528, 2 mm, 0.8 mm

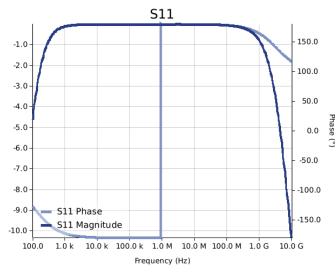
Simulations

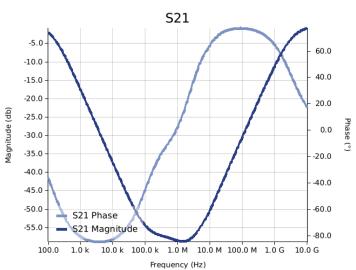
For the complete simulation environment please visit K-SIM.











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T598B476M006AHE070

T598, Tantalum, Polymer Tantalum, Commercial Grade, 47 uF, 20%, 6.3 VDC, SMD, Polymer, Molded, Low ESR, AEC-Q200, 70 mOhms, 3528, 2 mm, 0.8 mm

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 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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