

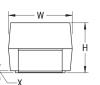
T491A476M006AT7280

General Information

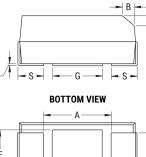
Series

T491, Tantalum, MnO2 Tantalum, 47 uF, 20%, 6.3 VDC, SMD, MnO2, Molded, 3.5 Ohms, 3216, Height Max = 1.8mm

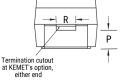
CATHODE (-) END VIEW



ANODE (+) END VIEW



SIDE VIEW



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Click	here	for	the	3D	model.	
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Dimensions	
Footprint	3216
L	3.2mm +/-0.2mm
W	1.6mm +/-0.2mm
Н	1.6mm +/-0.2mm
Т	0.13mm REF
S	0.8mm +0.2/-0.3mm
F	1.2mm +/-0.1mm
А	1.2mm MIN
В	0.4mm +/-0.15mm
E	1.3mm REF
G	1.1mm REF
Р	0.4mm REF
R	0.4mm REF
Х	0.1mm +/-0.1mm

Т

Dielectric	MnO2 Tantalum	
Style	SMD Chip	
Description	SMD, MnO2, Molded	
RoHS	Yes	
Termination	Tin	
AEC-Q200	No	
Component Weight	58.6 mg	
Shelf Life	156 Weeks	
MSL	1	

T491

Specifications	
Capacitance	47 uF
Capacitance Tolerance	20%
Voltage DC	6.3 VDC (85C), 4.22 VDC (125C)
Temperature Range	-55/+125°C
Rated Temperature	85°C
Dissipation Factor	12% 120Hz 25C
Failure Rate	N/A
Resistance	3.5 Ohms (100kHz 25C)
Ripple Current	146 mA (rms, 100kHz 25C), 131.4 mA (rms, 85C), 58.4 mA (rms, 125C)
Leakage Current	3 uA (5min 25°C)

Packaging Specifications			
Packaging	T&R, 330mm		
Packaging Quantity	9000		

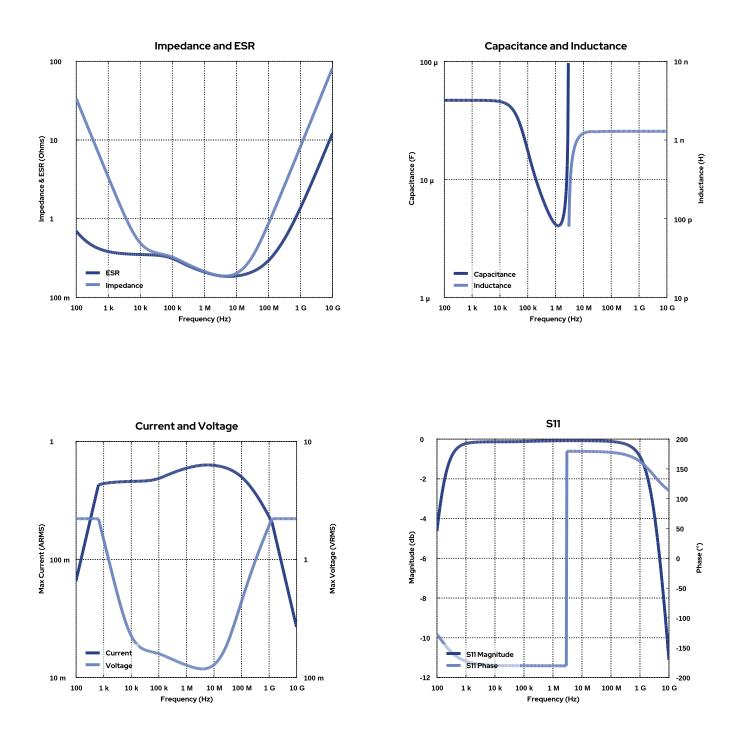
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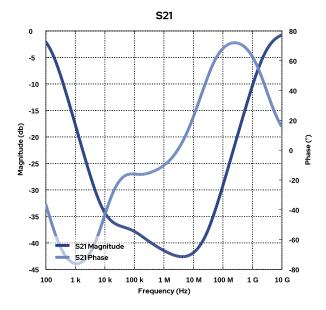
Simulations

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.

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If you have any questions please contact K-SIM.