

T496C476M006ATE1K6

T496, Tantalum, MnO2 Tantalum, Fused, 47 uF, 20%, 6.3 VDC, SMD, MnO2, Molded, Fused, N/A, 1.6 Ohms, 6032, 2.8 mm, 1.3 mm

CATHODE (-) END VIEW



ANODE (+) END VIEW

Dimensions

L

W

н Т

s

F

А

В

Е G

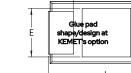
Ρ

R

Х

B - S -- | - S -- G -BOTTOM VIEW Δ.

SIDE VIEW



0.1mm +/-0.1mm REF

Click here for the 3D model.

General Information	
Series	T496
Dielectric	MnO2 Tantalum
Style	SMD Chip
Description	SMD, MnO2, Molded, Fused
Features	Integral Fuse
RoHS	Yes
Termination	Tin
AEC-Q200	No
Typical Component Weight	224.48 mg
Shelf Life	156 Weeks
MSL	1

	Specifications	
6mm +/-0.3mm	Capacitance	47 uF
3.2mm +/-0.3mm	Tolerance	20%
2.5mm +/-0.3mm	Voltage DC	6.3 VDC (85C), 4.22 VDC (125C)
0.13mm REF	Temperature Range	-55/+125°C
1.3mm +/-0.3mm	Rated Temperature	85°C
2.2mm +/-0.1mm	Dissipation Factor	6% 120Hz 25C
3.1mm MIN	Failure Rate	N/A
0.5mm +/-0.15mm	ESR	1600 mOhms (100kHz 25C)
2.4mm REF	Ripple Current	262 mA (rms, 100kHz 25C), 235.8 mA (rms, 85C), 104.8 mA (rms, 125C)
2.8mm REF		
0.9mm REF	Leakage Current	3 uA (5min 25°C)
1mm REF		

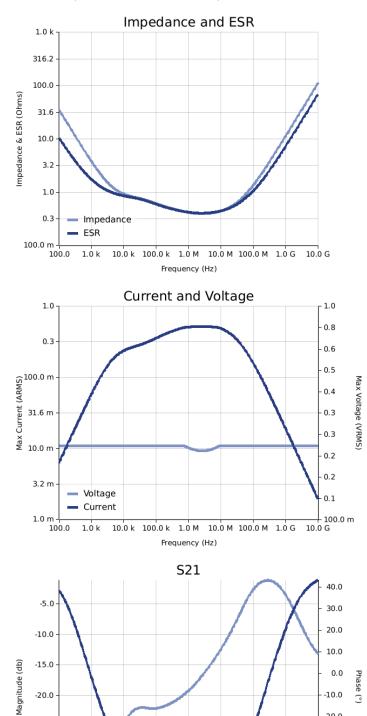
Packaging Specifications	
Packaging	T&R, 178mm
Packaging Quantity	500

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Simulations

For the complete simulation environment please visit K-SIM.



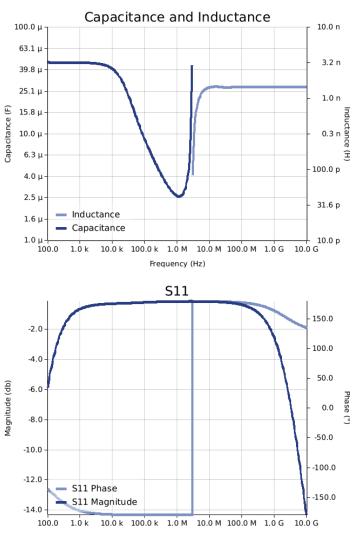
-20.0

-30.0

-40.0

-50.0

1.0 M 10.0 M 100.0 M 1.0 G 10.0 G



Frequency (Hz)

100.0

-25.0

-30.0

-35.0

S21 Phase S21 Magnitude

1.0 k

10.0 k 100.0 k

Frequency (Hz)



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 klipple current younge vs. requericy plots is the ESR at an bient 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 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.