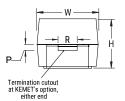


T490A107M006ATE800

T490, Tantalum, MnO2 Tantalum, Consumer, 100 uF, 20%, 6 VDC, SMD, MnO2, Molded, Consumer, 800 mOhms, 3216, 1.8 mm, 0.8 mm

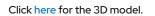
CATHODE (-) END VIEW



ANODE (+) END VIEW

НB • S --- | - S -— G -BOTTOM VIEW ٠A pad shape/design at KEMET's option

SIDE VIEW



General Information	
Series	T490
Dielectric	MnO2 Tantalum
Style	SMD Chip
Description	SMD, MnO2, Molded, Consumer
RoHS	Yes
Termination	Tin
AEC-Q200	No
Typical Component Weight	58.6 mg
Shelf Life	156 Weeks
MSL	1

Dimensions		Specificatio
L	3.2mm +/-0.2mm	Capacitance
W	1.6mm +/-0.2mm	Tolerance
н	1.6mm +/-0.2mm	Voltage DC
т	0.13mm REF	-
S	0.8mm +0.2/-0.3mm	Temperature
F	1.2mm +/-0.1mm	Rated Tempe
A	1.2mm MIN	Humidity
В	0.4mm +/-0.15mm	Failure Rate
E	1.3mm REF	ESR
G	1.1mm REF	Ripple Curre
Р	0.4mm REF	
R	0.4mm REF	Leakage Cur
х	0.1mm +/-0.1mm REF	

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

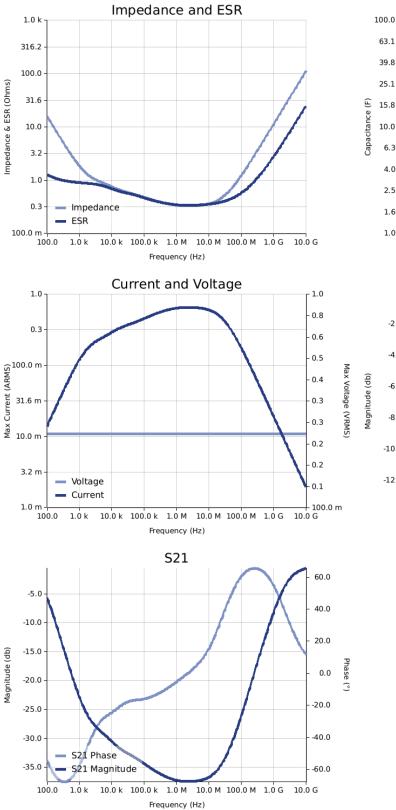
Specifications	
Capacitance	100 uF
Tolerance	20%
Voltage DC	6 VDC (40C), 3 VDC (85C), 1.2 VDC (125C)
Temperature Range	-55/+125°C
Rated Temperature	40°C
Humidity	40C, 93% RH, 1000 Hours, No Load
Failure Rate	N/A
ESR	0.8 Ohms (100kHz 25C)
Ripple Current	306 mAmps (100kHz 25C), 275.4 mAmps (40C), 122.4 mAmps (125C)
Leakage Current	6 uA (5min 25°C)

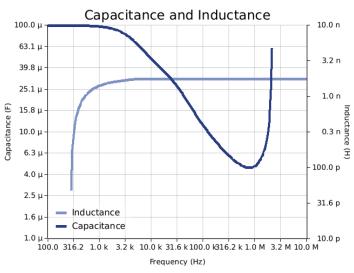
Statements of suitability for certain applications are based on our knowledge of typical operating conditions for such applications, but are not intended to constitute – and we specifically disclaim – any warranty concerning suitability for a specific customer application or use. This Information is 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.

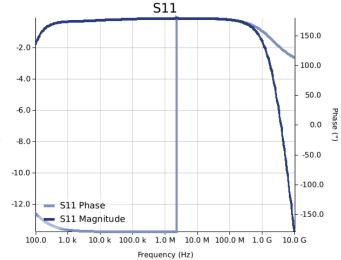


Simulations

For the complete simulation environment please visit Y-SIM.









T490, Tantalum, MnO2 Tantalum, Consumer, 100 uF, 20%, 6 VDC, SMD, MnO2, Molded, Consumer, 800 mOhms, 3216, 1.8 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 is the "Temperature Rise vs. 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.