

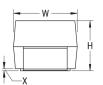
General Information

Series

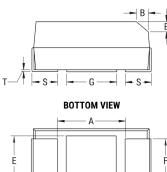
Dielectric

T491, Tantalum, MnO2 Tantalum, 100 uF, 20%, 4 VDC, SMD, MnO2, Molded, 900 mOhms, 3528, Height Max = 2.1mm

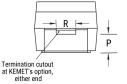
CATHODE (-) END VIEW



ANODE (+) END VIEW



SIDE VIEW



Click here for the 3D model.

Dimensions	
Footprint	3528
L	3.5mm +/-0.2mm
W	2.8mm +/-0.2mm
Н	1.9mm +/-0.2mm
Т	0.13mm REF
S	0.8mm +0.1/-0.3mm
F	2.2mm +/-0.1mm
А	1.9mm MIN
В	0.4mm +/-0.15mm
E	2.2mm REF
G	1.8mm REF
Р	0.5mm REF
R	1mm REF
х	0.1mm +/-0.1mm

Style	SMD	Chip
Description	SMD,	MnO2, Molded
RoHS	Yes	
Termination	Tin	
AEC-Q200	No	
Shelf Life	156 W	leeks
MSL	1	
Specifications		
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T491

MnO2 Tantalum

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Capacitance	100 uF	
Capacitance	20%	
Tolerance	2070	
Voltage DC	4 VDC (85C), 2.68 VDC (125C)	
Temperature	EE (112E°C	
Range	-55/+125°C	
Rated	85°C	
Temperature		
Dissipation Factor	8% 120Hz 25C	
Failure Rate	N/A	
Resistance	0.9 Ohms (100kHz 25C)	
Ripple Current	307 mA (rms, 100kHz 25C), 276.3 mA (rms,	
	85C), 122.8 mA (rms, 125C)	
Leakage Current	4 uA (5min 25°C)	

Packaging Specifications		
Weight	107.45 mg	
Packaging	T&R, 178mm	
Packaging Quantity	2000	

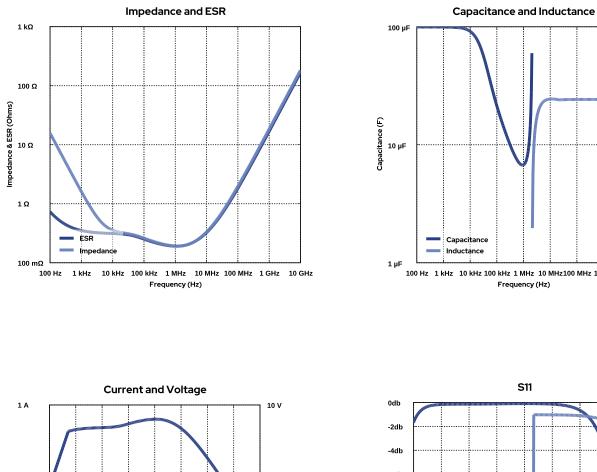
Statements of suitability for certain applications are based on our knowledge of typical operating conditions for such applications, but are not intended to constitute – and we specifically disclaim – any warranty concerning suitability for a specific customer application or use. This Information is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

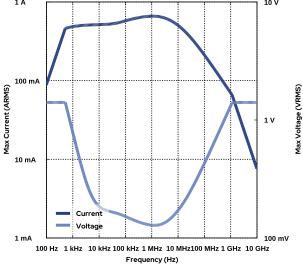


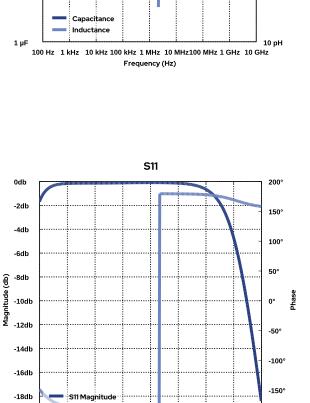
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Simulations

For the complete simulation environment please visit K-SIM.







100 Hz 1 kHz 10 kHz 100 kHz 1 MHz 10 MHz 100 MHz 1 GHz 10 GHz

Frequency (Hz)

S11 Phase

-20db

-200°

10 nH

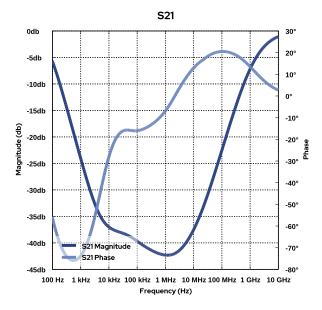
1 nH

100 pH

Inductance (H)



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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.