

T491A104K050ATAUTO

T491 Auto, Tantalum, MnO2 Tantalum, .1 uF, 10%, 50 VDC, SMD, MnO2, Molded, Auto, AEC-Q200, 20 Ohms, 3216, Height Max = 1.8mm

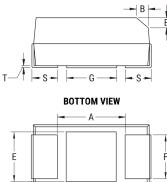
CATHODE (-) END VIEW



ANODE (+) END VIEW

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SIDE VIEW

	General Information	
	Series	T491 Auto
	Dielectric	MnO2 Tantalum
	Style	SMD Chip
	Description	SMD, MnO2, Molded, Auto, AEC-Q200
	Features	Automotive
	RoHS	Yes
	Termination	Tin
	Qualifications	AEC-Q200
	AEC-Q200	Yes
	Component Weight	58.6 mg

Specifications					
Capacitance	.1uF				
Capacitance Tolerance	10%				
Voltage DC	50 VDC (85C), 33.5 VDC (125C)				
Temperature Range	-55/+125°C				
Rated Temperature	85°C				
Dissipation Factor	4% 120Hz 25C				
Failure Rate	N/A				
Resistance	20 Ohms (100kHz 25C)				
Ripple Current	61 mA (rms, 100kHz 25C)				
Leakage Current	0.5 uA (5min 25°C)				

Click	here	for	the	3D	model.

Termination cutout at KEMET's option, either end

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	

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

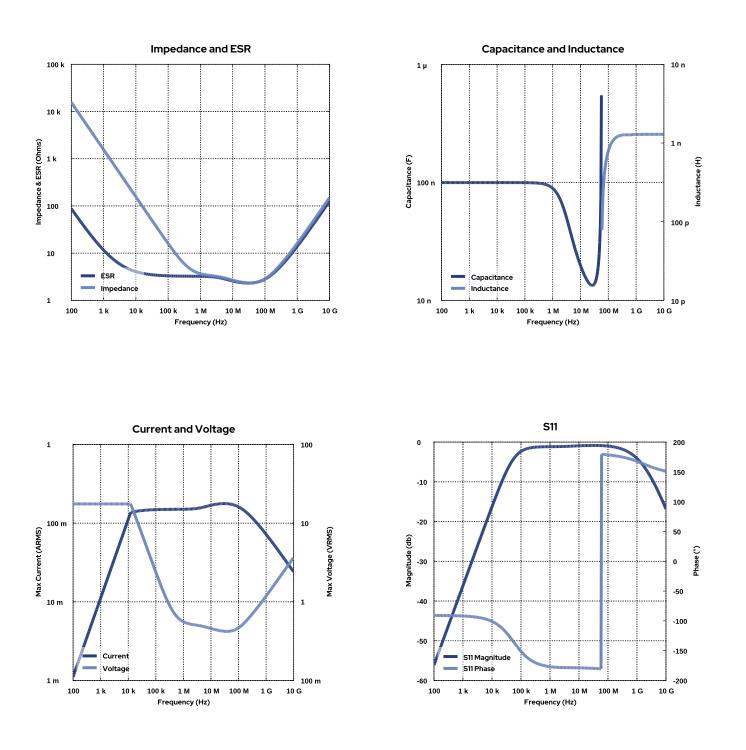
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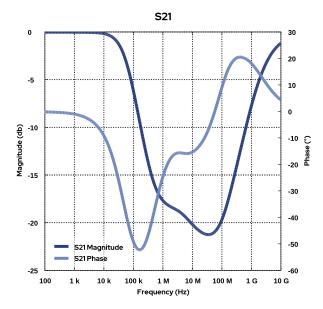
Simulations

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.