

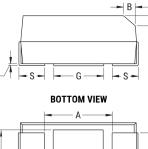
T494A105K020AT

T494, Tantalum, MnO2 Tantalum, 1 uF, 10%, 20 VDC, SMD, MnO2, Molded, Low ESR, 5.5 Ohms, 3216, Height Max = 1.8mm

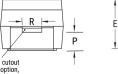
CATHODE (-) END VIEW



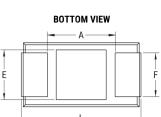
ANODE (+) END VIEW



SIDE VIEW



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	either e	

Click here for the 3D model.

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			

General Information				
Series	T494			
Dielectric	MnO2 Tantalum			
Style	SMD Chip			
Description	SMD, MnO2, Molded, Low ESR			
Features	Low ESR			
RoHS	Yes			
Termination	Tin			
AEC-Q200	No			
Component Weight	58.6 mg			
Shelf Life	156 Weeks			
MSL	1			

Specifications				
Capacitance	1uF			
Capacitance Tolerance	10%			
Voltage DC	20 VDC (85C), 13.4 VDC (125C)			
Temperature Range	-55/+125°C			
Rated Temperature	85°C			
Dissipation Factor	4% 120Hz 25C			
Failure Rate	N/A			
Resistance	5.5 Ohms (100kHz 25C)			
Ripple Current	117 mA (rms, 100kHz 25C), 105.3 mA (rms, 85C), 46.8 mA (rms, 125C)			
Leakage Current	0.5 uA (5min 25°C)			

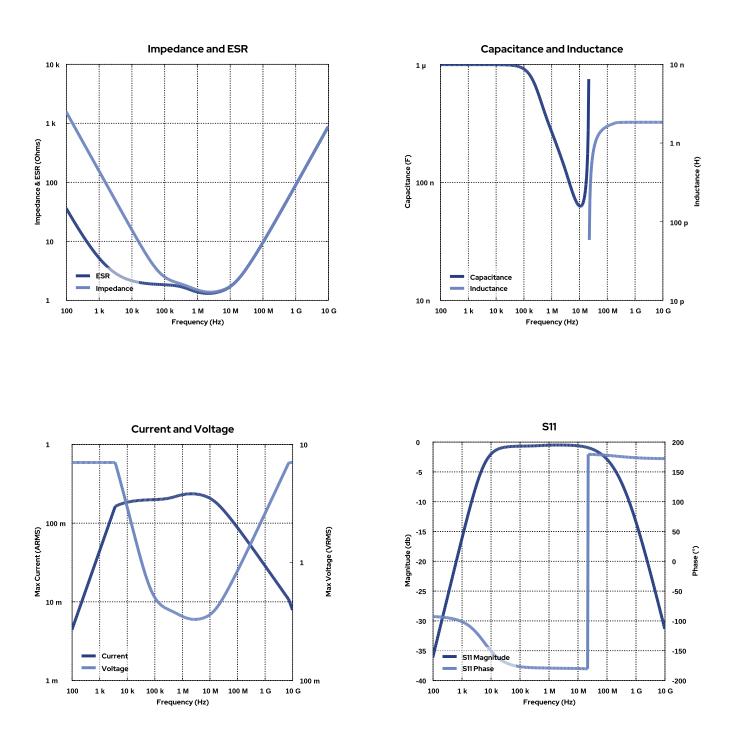
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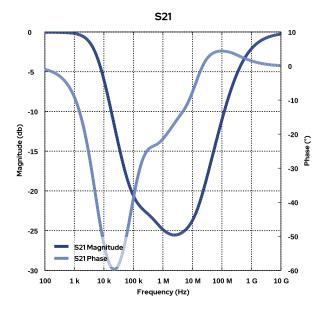
Simulations

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.