

T494B474K050AT

General Information

Series

Style

Dielectric

Description

T494, Tantalum, MnO2 Tantalum, Commercial Grade, 0.47 uF, 10%, 50 VDC, SMD, MnO2, Molded, Low ESR, 2 Ohms, 3528, 2.1 mm, 0.8 mm

T494

MnO2 Tantalum

SMD, MnO2, Molded, Low ESR

SMD Chip

CATHODE (-) END VIEW

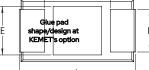


ANODE (+) END VIEW

Dimensions

ΗB S G - S+

SIDE VIEW



Click here for the 3D mo

la C → la S →	Features	Low ESR
BOTTOM VIEW	RoHS	Yes
<a►< td=""><td>Termination</td><td>Tin</td></a►<>	Termination	Tin
ve pad /design at This option	AEC-Q200	No
	Typical Component Weight	107.45 mg
	Shelf Life	156 Weeks
L	MSL	1
nodel.		
	Specifications	
+/-0.2mm	Capacitance	0.47 uF
+/-0.2mm	Tolerance	10%
	Tolerance	1070
+/-0.2mm	Voltage DC	50 VDC (85C), 33.5
+/-0.2mm I REF		
	Voltage DC	50 VDC (85C), 33.5

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
Α	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 REF

Capacitance	0.47 uF
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
ESR	2 Ohms (100kHz 25C)
Ripple Current	206 mA (rms, 100kHz 25C), 185.4 mA (rms, 85C), 82.4 mA (rms, 125C)
Leakage Current	0.5 uA (5min 25°C)

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

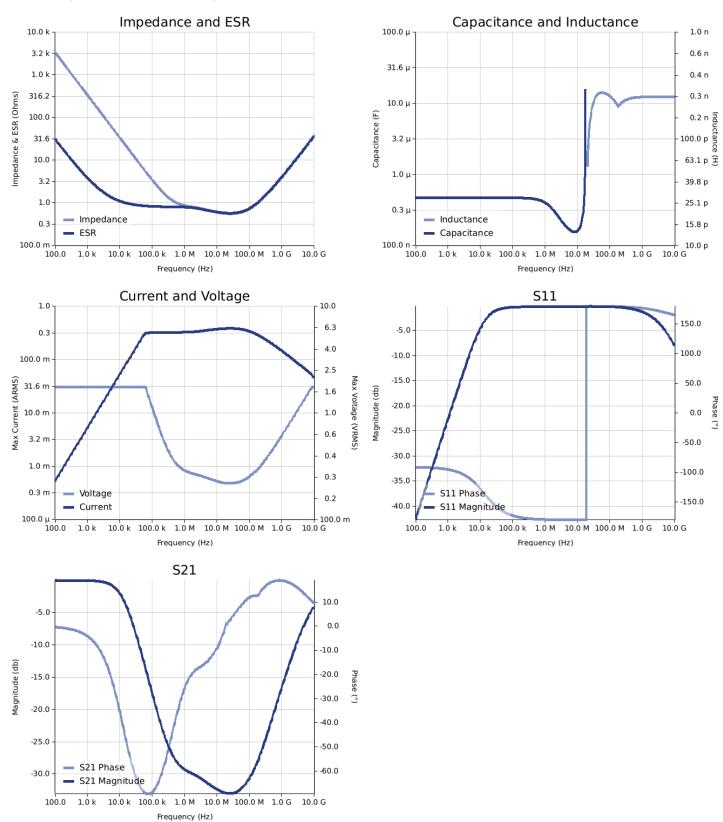
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Simulations

For the complete simulation environment please visit K-SIM.





VDC, SMD, MnO2, Molded, Low ESR, 2 Ohms, 3528, 2.1 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 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.