

T494B156K016AT

T494, Tantalum, MnO2 Tantalum, Commercial Grade, 15 uF, 10%, 16 VDC, SMD, MnO2, Molded, Low ESR, 800 mOhms, 3528, 2.1 mm, 0.8 mm

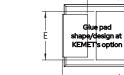
CATHODE (-) END VIEW



ANODE (+) END VIEW

Di W H T S F A B E G R X

SIDE VIEW



KEMÉT soption	Shel	
Click here for the 3D model.	MSL	
imensions	Spec	ci
3.5mm +/-0.2mm	Capa	ac
2.8mm +/-0.2mm	Toler	ra
1.9mm +/-0.2mm	Volta	aç
0.13mm REF	Tem	p
0.8mm +0.1/-0.3n	nm Rate	d
2.2mm +/-0.1mm	Dissi	ip
1.9mm MIN	Failu	re
0.4mm +/-0.15mn	n ESR	
2.2mm REF	Ripp	le
1.8mm REF		
0.5mm REF	Leak	ka
1mm REF		
0.1mm +/-0.1mm F	₹EF	

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
Typical Component Weight	107.45 mg
Shelf Life	156 Weeks
MSL	1

Specifications	
Capacitance	15 uF
Tolerance	10%
Voltage DC	16 VDC (85C), 10.72 VDC (125C)
Temperature Range	-55/+125°C
Rated Temperature	85°C
Dissipation Factor	6% 120Hz 25C
Failure Rate	N/A
ESR	0.8 Ohms (100kHz 25C)
Ripple Current	326 mA (rms, 100kHz 25C), 293.4 mA (rms, 85C), 130.4 mA (rms, 125C)
Leakage Current	2.4 uA (5min 25°C)

Packaging Specifications	
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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100.0 µ

63.1 µ

39.8 µ

25.1 μ

0.0

-20.0

-40.0

-60.0

10.0 M 100.0 M 1.0 G 10.0 G

Phase (°)

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Capacitance and Inductance

10.0 n

3.2 n

1.0 n

0.3 n

Indu Ictan

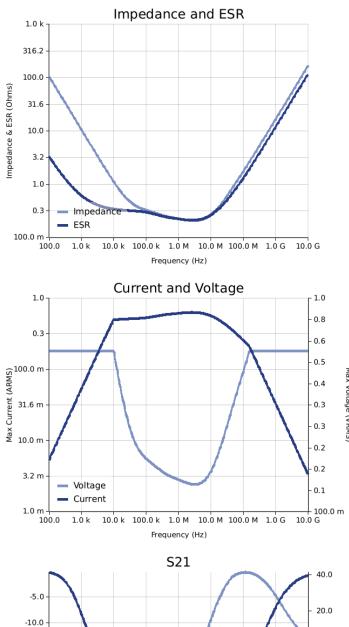
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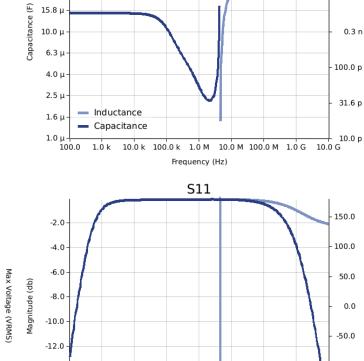
Phase (°)

0.0

Simulations

For the complete simulation environment please visit K-SIM.





-100.0 -14.0 S11 Phase -16.0 -150.0 S11 Magnitude 100.0 1.0 k 10.0 k 100.0 k 1.0 M 10.0 M 100.0 M 1.0 G 10.0 G Frequency (Hz)

Generated 06/15/2025

100.0

S21 Phase S21 Magnitude

10.0 k 100.0 k 1.0 M

Frequency (Hz)

1.0 k

-15.0

-20.0

-25.0

-30.0 -35.0

-40.0

Magnitude (db)



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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.