

## T494B336K016AT

**General Information** 

Series

Dielectric Style

Description

Features

RoHS

T494, Tantalum, MnO2 Tantalum, Commercial Grade, 33 uF, 10%, 16 VDC, SMD, MnO2, Molded, Low ESR, 1.2 Ohms, 3528, 2.1 mm, 0.8 mm

T494

MnO2 Tantalum

5.3 uA (5min 25°C)

SMD, MnO2, Molded, Low ESR

SMD Chip

Low ESR

Yes

CATHODE (-) END VIEW



ANODE (+) END VIEW

Dimensions

L W

н

Т s F

А В

Е

G

Р

R Х

B - S G -S BOTTOM VIEW

SIDE VIEW

Click here

BOTTOM VIEW		
A	Termination	Tin
Giue pad E shape/design at F KEMETs option	AEC-Q200	No
	Typical Component Weight	107.45 mg
	Shelf Life	156 Weeks
L	MSL	1
e for the 3D model.		
	Specifications	
3.5mm +/-0.2mm	Capacitance	33 uF
2.8mm +/-0.2mm	Tolerance	10%
1.9mm +/-0.2mm	Voltage DC	16 VDC (85C), 10.72 VDC (125C)
0.13mm REF	Temperature Range	-55/+125°C
0.8mm +0.1/-0.3mm	Rated Temperature	85°C
2.2mm +/-0.1mm	Dissipation Factor	8% 120Hz 25C
1.9mm MIN	Failure Rate	N/A
0.4mm +/-0.15mm	ESR	1.2 Ohms (100kHz 25C)
2.2mm REF	Ripple Current	266 mA (rms, 100kHz 25C),
1.8mm REF		239.4 mÅ (rms, 85C), 106.4 mÅ (rms, 125C)

Leakage Current

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

0.5mm REF

0.1mm +/-0.1mm REF

1mm REF

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.

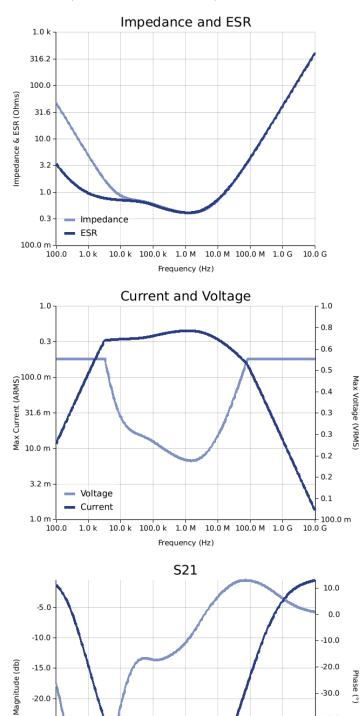


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### Simulations

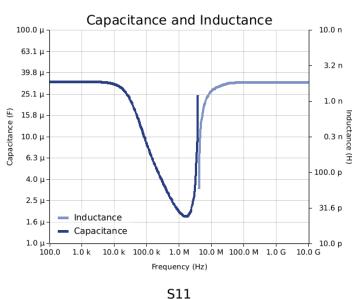
For the complete simulation environment please visit K-SIM.

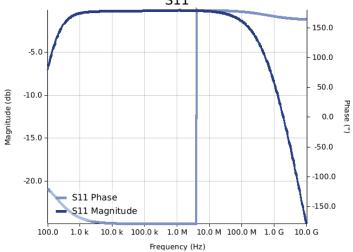


-40.0

-50.0

-60.0





100.0

S21 Phase

1.0 k

S21 Magnitude

10.0 k 100.0 k 1.0 M 10.0 M 100.0 M 1.0 G 10.0 G

Frequency (Hz)

-20.0

-25.0

-30.0

-35.0



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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.

All Information given herein is believed to be accurate and reliable, but is presented without guarantee, warranty, or responsibility of any kind, expressed or implied. 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.

If you have any questions please contact K-SIM.