

T496B105K035ATE5K0

General Information

Series

Style

Dielectric

Description

Termination

AEC-Q200

Features

RoHS

T496, Tantalum, MnO2 Tantalum, Fused, 1 uF, 10%, 35 VDC, SMD, MnO2, Molded, Fused, N/A, 5 Ohms, 3528, 2.1 mm, 0.8 mm

T496

Yes

Tin

No

MnO2 Tantalum

SMD, MnO2, Molded, Fused

SMD Chip

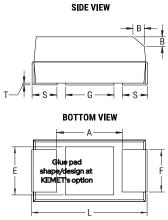
Integral Fuse

CATHODE (-) END VIEW



ANODE (+) END VIEW

R



Click here for the 3D model.

Dimensions	
L	3.5mm +/-0.2mm
W	2.8mm +/-0.2mm
н	1.9mm +/-0.2mm
т	0.13mm REF
S	0.8mm +/-0.3mm
F	2.2mm +/-0.1mm
A	1.9mm MIN
В	0.4mm +/-0.15mm
E	2.2mm REF
G	1.8mm REF
Р	0.4mm REF
R	1.5mm REF
x	0.1mm +/-0.1mm REF

	Typical Component Weight	107.45 mg
	Shelf Life	156 Weeks
	MSL	1
	Specifications	
	Capacitance	1uF
	Tolerance	10%
	Voltage DC	35 VDC (85C), 23.45 VDC (125C)
	Temperature Range	-55/+125°C
	Rated Temperature	85°C

Rated Temperature	85°C
Dissipation Factor	4% 120Hz 25C
Failure Rate	N/A
ESR	5000 mOhms (100kHz 25C)
Ripple Current	130 mA (rms, 100kHz 25C), 117 mA (rms, 85C), 52 mA (rms, 125C)
Leakage Current	0.5 uA (5min 25°C)

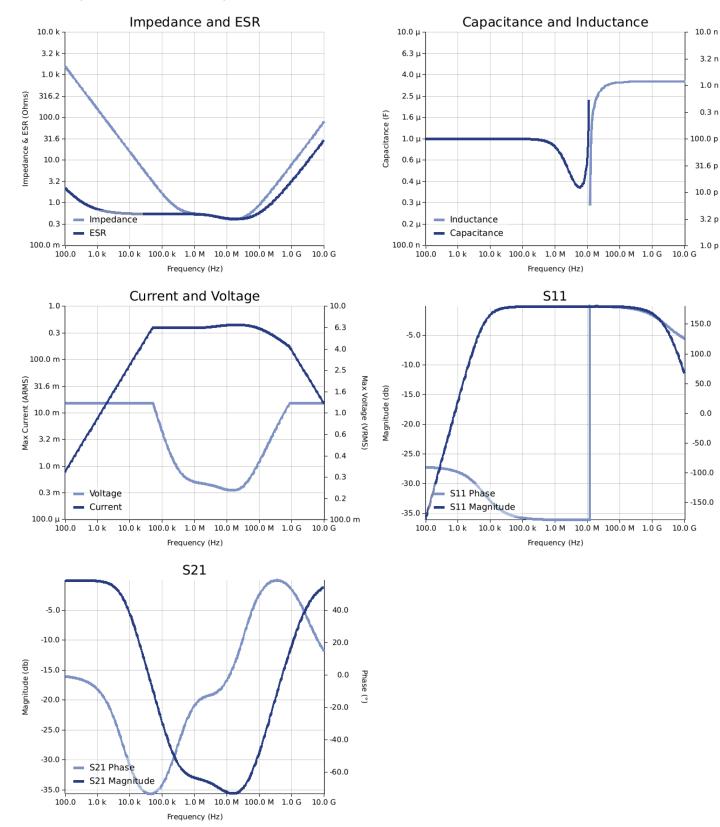
Packaging Specifications	
Packaging	T&R, 178mm
Packaging Quantity	2000

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.



Simulations

For the complete simulation environment please visit K-SIM.



3.2 n

1.0 n

0.3 n

3.2 p

1.0 p

Phase (°)

0.0

Ind

tan

Ē



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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.