

T494A685K006AT

General Information

Series

Style

Dielectric

Description

Termination

AEC-Q200

Features

RoHS

T494, Tantalum, MnO2 Tantalum, Commercial Grade, 6.8 uF, 10%, 6.3 VDC, SMD, MnO2, Molded, Low ESR, 2 Ohms, 3216, 1.8 mm, 0.8 mm

T494

MnO2 Tantalum

SMD, MnO2, Molded, Low ESR

SMD Chip

Low ESR

Yes

Tin

No

CATHODE (-) END VIEW

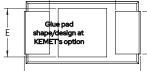


ANODE (+) END VIEW

Dimen L W н Т s F А В Е G Р R Х

B s -- | - S -- G · BOTTOM VIEW Α-

SIDE VIEW



	Giue pad F	Typical Compo
	KEMETsoption	Shelf Life
		MSL
Click here for	the 3D model.	
nsions		Specifications
	3.2mm +/-0.2mm	Capacitance
	1.6mm +/-0.2mm	Tolerance
	1.6mm +/-0.2mm	Voltage DC
	0.13mm REF	Temperature Ra
	0.8mm +0.2/-0.3mm	Rated Tempera
	1.2mm +/-0.1mm	Dissipation Fact
	1.2mm MIN	Failure Rate
	0.4mm +/-0.15mm	ESR
	1.3mm REF	Ripple Current
	1.1mm REF	
	0.4mm REF	Leakage Currer
	0.4mm REF	
	0.1mm +/-0.1mm REF	

Typical Component Weight	58.6 mg
Shelf Life	156 Weeks
MSL	1
Specifications	
Capacitance	6.8 uF
Tolerance	10%
Voltage DC	6.3 VDC (85C), 4.22 VDC (125C)
Temperature Range	-55/+125°C
Rated Temperature	85°C
Dissipation Factor	6% 120Hz 25C

	070 1201 12 230
Failure Rate	N/A
ESR	2 Ohms (100kHz 25C)
Ripple Current	194 mA (rms, 100kHz 25C), 174.6 mA (rms, 85C), 77.6 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.

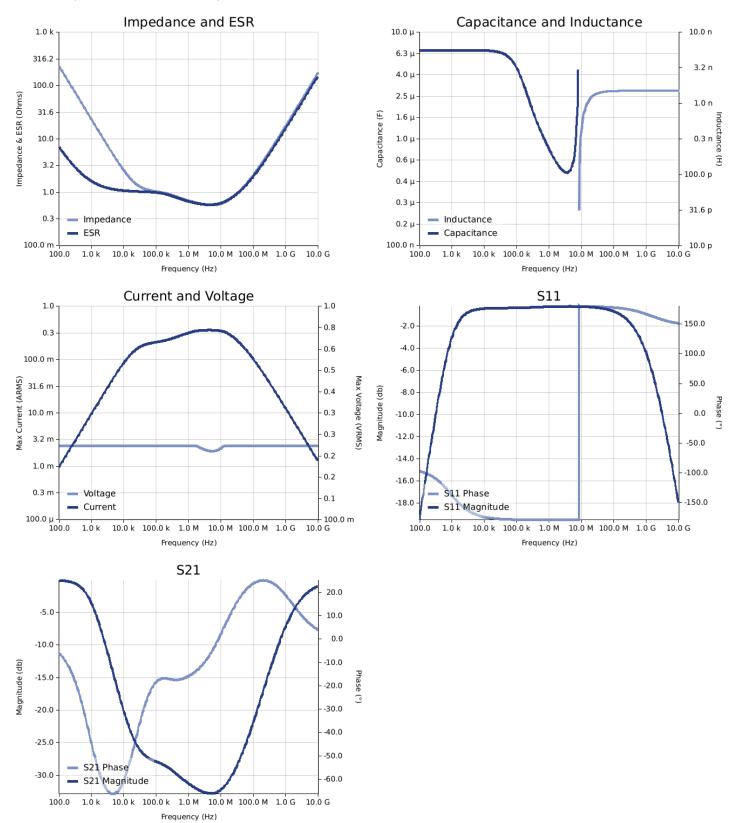


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Simulations

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.