

## T491C476M006AH

T491, Tantalum, MnO2 Tantalum, 47 uF, 20%, 6.3 VDC, SMD, MnO2, Molded, 1.5 Ohms, 6032, Height Max = 2.8 mm



Click here for the 3D model.

Dimensions	
Footprint	6032
L	6mm +/-0.3mm
W	3.2mm +/-0.3mm
Н	2.5mm +/-0.3mm
Т	0.13mm REF
S	1.3mm +/-0.3mm
F	2.2mm +/-0.1mm
Α	2.9mm MIN
В	0.5mm +/-0.15mm
E	2.4mm REF
G	2.8mm REF
Р	0.9mm REF
R	1mm REF
X	0.1mm +/-0.1mm

Packaging Specifications	
Packaging	T&R, 178mm
Packaging Quantity	500

Series T491  Dielectric MnO2 Tantalum  Style SMD Chip  Description SMD, MnO2, Molded  RoHS No  Prop 65 A WARNING: Cancer and reproductive harm-http://www.p65warnings.ca.gov.  SCIP Number Idd2e1b8-26dd-4d52-927c-6f9d519011aa  Termination Solder Coated  AEC-Q200 No  Component 224 48 mg	General Information	
Style SMD Chip  Description SMD, MnO2, Molded  RoHS No  Prop 65 WARNING: Cancer and reproductive harm-http://www.p65warnings.ca.gov.  SCIP Number Idd2e1b8-26dd-4d52-927c-6f9d519011aa  Termination Solder Coated  AEC-Q200 No  Component 224 48 mg		
Description SMD, MnO2, Molded RoHS No Prop 65 A WARNING: Cancer and reproductive harm-http://www.p65warnings.ca.gov. SCIP Number 1dd2e1b8-26dd-4d52-927c-6f9d519011aa Termination Solder Coated AEC-Q200 No Component 224 48 mg	Dielectric	MnO2 Tantalum
RoHS No Prop 65 WARNING: Cancer and reproductive harm-http://www.p65warnings.ca.gov.  SCIP Number 1dd2e1b8-26dd-4d52-927c-6f9d519011aa Termination Solder Coated AEC-Q200 No Component 224 48 mg	Style	SMD Chip
Prop 65 WARNING: Cancer and reproductive harm-http://www.p65warnings.ca.gov.  SCIP Number 1dd2e1b8-26dd-4d52-927c-6f9d519011aa  Termination Solder Coated  AEC-Q200 No  Component 224 48 mg	Description	SMD, MnO2, Molded
http://www.p65warnings.ca.gov.  SCIP Number 1dd2e1b8-26dd-4d52-927c-6f9d519011aa  Termination Solder Coated  AEC-Q200 No  Component 224.48 mg	RoHS	No
Termination Solder Coated  AEC-Q200 No  Component 224 48 mg	Prop 65	▲ WARNING: Cancer and reproductive harm - http://www.p65warnings.ca.gov.
AEC-Q200 No Component 224 48 mg	SCIP Number	1dd2e1b8-26dd-4d52-927c-6f9d519011aa
Component 224 48 mg	Termination	Solder Coated
	AEC-Q200	No
	Component Weight	224.48 mg
Shelf Life 156 Weeks	Shelf Life	156 Weeks
MSL 1	MSL	1

Specifications	
Capacitance	47 uF
Capacitance Tolerance	20%
Voltage DC	6.3 VDC (85C), 4.22 VDC (125C)
Temperature Range	-55/+125°C
Rated Temperature	85°C
Dissipation Factor	6% 120Hz 25C
Failure Rate	N/A
Resistance	1.5 Ohms (100kHz 25C)
Ripple Current	262 mA (rms, 100kHz 25C), 235.8 mA (rms, 85C), 104.8 mA (rms, 125C)
Leakage Current	3 uA (5min 25°C)

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.



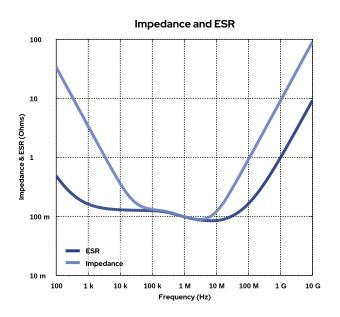
a YAGEO company

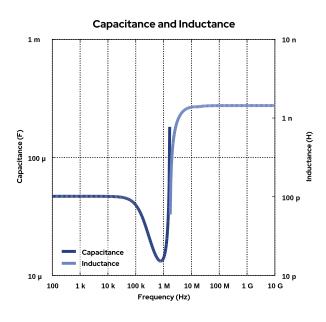
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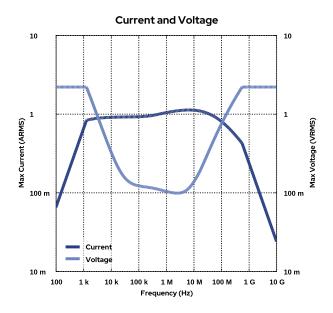
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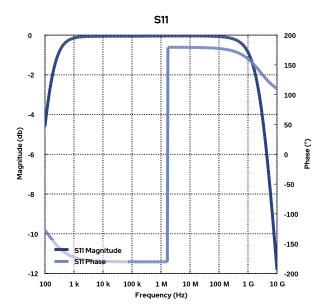
# **Simulations**

For the complete simulation environment please visit K-SIM.





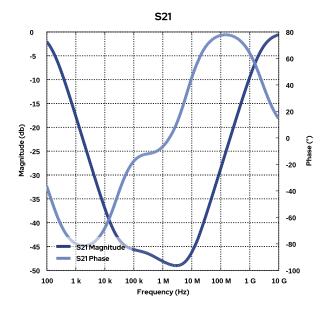






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#### These are simulations.

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
- 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.