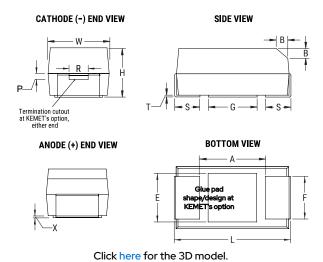




T493 HRA, Tantalum, MnO2 Tantalum, HRA, 47 uF, 10%, 10 VDC, SMD, MnO2, Molded, High Reliability, N/A, 800 mOhms, 7343, 3.1 mm, 1.3 mm



Series T493 HRA Dielectric MnO2 Tantalum Style SMD Chip Description SMD, MnO2, Molded, High Reliability Features High Reliability RoHS No Prop 65 WARNING: Cancer and reproductive harm - https://www.p65warnings.ca.gov// SCIP Number Idd2e1b8-26dd-4d52-927c-6f9 d519011aa Termination Tin Lead (SnPb) AEC-Q200 No Typical Component Weight 412.33 mg Notes Pand R dimensions represents the minimum solderable area of the termination surface entirely below cutout (if one is present).		
Dielectric MnO2 Tantalum Style SMD Chip Description SMD, MnO2, Molded, High Reliability Features High Reliability RoHS No Prop 65 WARNING: Cancer and reproductive harm - https://www.p65warnings.ca.gov / SCIP Number Idd2e1b8-26dd-4d52-927c-6f9 d519011aa Termination Tin Lead (SnPb) AEC-Q200 No Typical Component Weight 412.33 mg Notes P and R dimensions represents the minimum solderable area of the termination surface entirely	General Information	
Style SMD Chip Description SMD, MnO2, Molded, High Reliability Features High Reliability RoHS No Prop 65 WARNING: Cancer and reproductive harm - https://www.p65warnings.ca.gov// SCIP Number Idd2eIb8-26dd-4d52-927c-6f9 d519011aa Termination Tin Lead (SnPb) AEC-Q200 No Typical Component Weight 412.33 mg Notes P and R dimensions represents the minimum solderable area of the termination surface entirely	Series	T493 HRA
Description SMD, MnO2, Molded, High Reliability Features High Reliability RoHS No Prop 65 WARNING: Cancer and reproductive harm - https://www.p65warnings.ca.gov / . SCIP Number 1dd2e1b8-26dd-4d52-927c-6f9 d519011aa Termination Tin Lead (SnPb) AEC-Q200 No Typical Component Weight Notes P and R dimensions represents the minimum solderable area of the termination surface entirely	Dielectric	MnO2 Tantalum
Reliability Features High Reliability RoHS No Prop 65 WARNING: Cancer and reproductive harm – https://www.p65warnings.ca.gov / SCIP Number Idd2e1b8-26dd-4d52-927c-6f9 d519011aa Termination Tin Lead (SnPb) AEC-Q200 No Typical Component Weight 412.33 mg Notes P and R dimensions represents the minimum solderable area of the termination surface entirely	Style	SMD Chip
RoHS Prop 65 WARNING: Cancer and reproductive harm - https://www.p65warnings.ca.gov / . SCIP Number Idd2e1b8-26dd-4d52-927c-6f9 d519011aa Termination Tin Lead (SnPb) AEC-Q200 No Typical Component Weight P and R dimensions represents the minimum solderable area of the termination surface entirely	Description	
Prop 65 WARNING: Cancer and reproductive harm - https://www.p65warnings.ca.gov / SCIP Number Idd2e1b8-26dd-4d52-927c-6f9 d519011aa Termination Tin Lead (SnPb) AEC-Q200 No Typical Component Weight Notes P and R dimensions represents the minimum solderable area of the termination surface entirely	Features	High Reliability
reproductive harm - https://www.p65warnings.ca.gov / SCIP Number 1dd2e1b8-26dd-4d52-927c-6f9 d519011aa Termination Tin Lead (SnPb) AEC-Q200 No Typical Component Weight 412.33 mg Notes P and R dimensions represents the minimum solderable area of the termination surface entirely	RoHS	No
Termination Tin Lead (SnPb) AEC-Q200 No Typical Component Weight 412.33 mg Notes P and R dimensions represents the minimum solderable area of the termination surface entirely	Prop 65	reproductive harm -
AEC-Q200 No Typical Component Weight 412.33 mg Notes P and R dimensions represents the minimum solderable area of the termination surface entirely	SCIP Number	
Typical Component Weight 412.33 mg Notes P and R dimensions represents the minimum solderable area of the termination surface entirely	Termination	Tin Lead (SnPb)
Notes P and R dimensions represents the minimum solderable area of the termination surface entirely	AEC-Q200	No
the minimum solderable area of the termination surface entirely	Typical Component Weight	412.33 mg
	Notes	the minimum solderable area of the termination surface entirely

Dimensions	
L	7.3mm +/-0.3mm
W	4.3mm +/-0.3mm
Н	2.8mm +/-0.3mm
Т	0.13mm REF
S	1.3mm +/-0.3mm
F	2.4mm +/-0.1mm
A	3.8mm MIN
В	0.5mm +/-0.15mm
Е	3.5mm REF
G	3.5mm REF
Р	0.5mm MIN
R	1mm REF
Х	0.1mm +/-0.1mm REF

Specifications	
Capacitance	47 uF
Tolerance	10%
Voltage DC	10 VDC (85C), 6.7 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	433 mA (rms, 100kHz 25C)
Leakage Current	4.7 uA (5min 25°C)
Testing and Reliability	10 Cycles Surge Current Testing At -55C And +85C Before Weibull

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

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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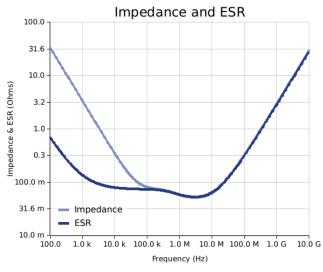


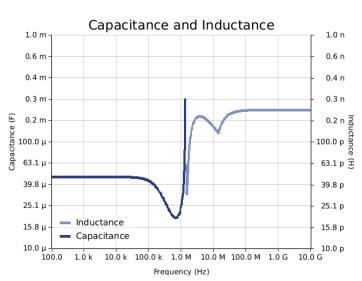


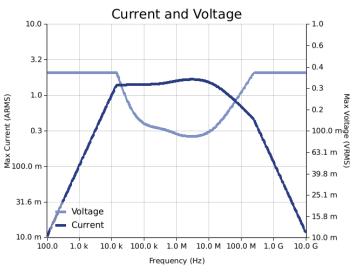
T493 HRA, Tantalum, MnO2 Tantalum, HRA, 47 uF, 10%, 10 VDC, SMD, MnO2, Molded, High Reliability, N/A, 800 mOhms, 7343, 3.1 mm, 1.3 mm

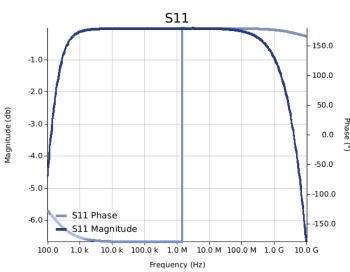
Simulations

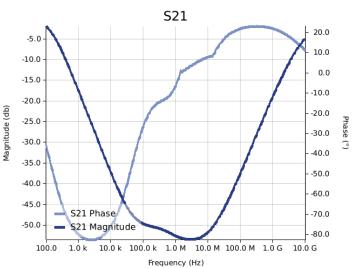
For the complete simulation environment please visit K-SIM.











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T493D476K010AH6410

T493 HRA, Tantalum, MnO2 Tantalum, HRA, 47 uF, 10%, 10 VDC, SMD, MnO2, Molded, High Reliability, N/A, 800 mOhms, 7343, 3.1 mm, 1.3 mm

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.

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