

T491X226M035AT7280

T491, Tantalum, MnO2 Tantalum, Commercial Grade, 22 uF, 20%, 35 VDC, SMD, MnO2, Molded, 700 mOhms, 7343, 4.3 mm, 1.3 mm

CATHODE (-) END VIEW

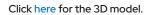


ANODE (+) END VIEW

Dimensions

L W T S F A B E G R X BOTTOM VIEW Glue pad shape/clesign at KEMETs option

SIDE VIEW



General Information	
Series	T491
Dielectric	MnO2 Tantalum
Style	SMD Chip
Description	SMD, MnO2, Molded
RoHS	Yes
Termination	Tin
AEC-Q200	No
Typical Component Weight	652.04 mg
Shelf Life	156 Weeks
MSL	1

	Specifications
7.3mm +/-0.3mm	Capacitance
4.3mm +/-0.3mm	Tolerance
4mm +/-0.3mm	Voltage DC
0.13mm REF	
1.3mm +/-0.3mm	Temperature Range
	Rated Temperature
2.4mm +/-0.1mm	Dissipation Factor
3.6mm MIN	•
0.5mm +/-0.15mm	Failure Rate
3.5mm REF	ESR
	Ripple Current
3.5mm REF	
1.7mm REF	
1mm REF	Leakage Current
0.1mm +/-0.1mm REF	

Capacitance	22 uF
Tolerance	20%
Voltage DC	35 VDC (85C), 23.45 VDC (125C)
Temperature Range	-55/+125°C
Rated Temperature	85°C
Dissipation Factor	6% 120Hz 25C
Failure Rate	N/A
ESR	0.7 Ohms (100kHz 25C)
Ripple Current	486 mA (rms, 100kHz 25C), 437.4 mA (rms, 85C), 194.4 mA (rms, 125C)
Leakage Current	7.7 uA (5min 25°C)

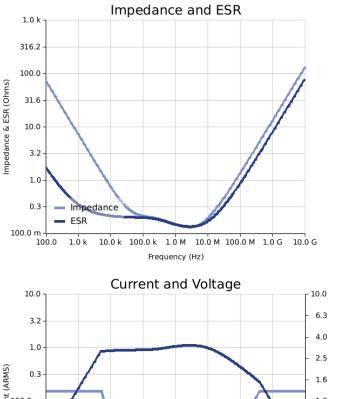
Packaging Specifications	
Packaging	T&R, 330mm
Packaging Quantity	2000

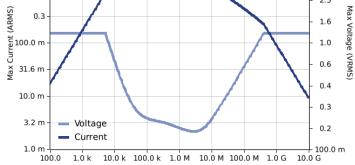
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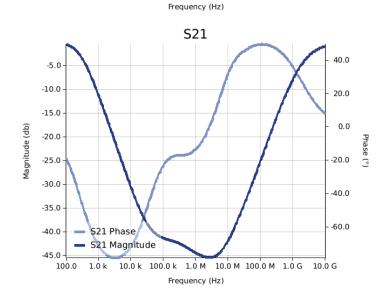


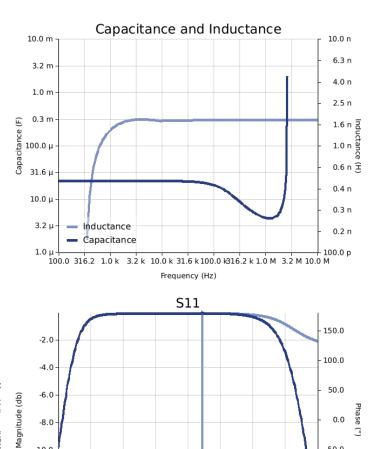
Simulations

For the complete simulation environment please visit Y-SIM.









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

Frequency (Hz)

-10.0

-12.0

-14.0

100.0

S11 Phase

1.0 k

S11 Magnitude

-50.0

-100.0

-150.0

10.0 G



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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 used for hipple 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.