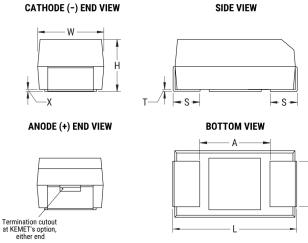


T591, Tantalum, Polymer Tantalum, 220 uF, 20%, 4 VDC, SMD, Polymer, Molded, Low ESR, 18 mOhms, 7343, Height Max = 2mm

T591

Polymer Tantalum



T - S -		Style	SMD Chip
		Description	SMD, Polymer, Molded, Low ESR
	T	Features	Automotive
		RoHS	Yes
ANODE (+) END VIEW	BOTTOM VIEW	Termination	Tin
A	A — A	Qualifications	AEC-Q200 (Limited 500 Hrs 85C/85% RH/Ur)
	AEC-Q200	Subject to PPAP/PSW and change control	
	F.	Component Weight	274.3 mg
Termination cutout		Shelf Life	52 Weeks
at KEMET's option, either end	L	MSL	3
Click here for the 3D model.			

Series

Dielectric

General Information

Dimensions	
Footprint	7343
L	7.3mm +/-0.3mm
W	4.3mm +/-0.3mm
Н	1.9mm +/-0.1mm
Т	0.13mm REF
S	1.3mm +/-0.3mm
F	2.4mm +/-0.1mm
Α	3.8mm MIN
X	0.05mm REF

Packaging Specifications	
Packaging	T&R, 178mm
Packaging Quantity	1000

Specifications	
Capacitance	220 uF
Capacitance Tolerance	20%
Voltage DC	4 VDC (105C)
Temperature Range	-55/+105°C
Rated Temperature	105°C
Humidity	85C, 85% RH, load, 500 Hours
Dissipation Factor	10% 120Hz 25C
Failure Rate	N/A
Resistance	18 mOhms (100kHz 25C)
Ripple Current	4710 mA (rms, 100kHz 45C), 3297 mA (rms, 85C), 1178 mA (rms, 105C)
Leakage Current	88 uA (5min 25°C)

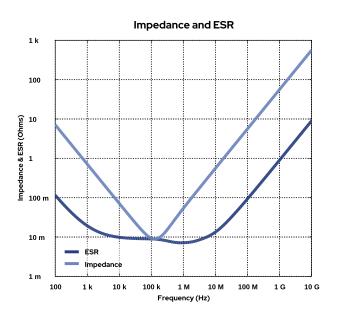
Statements of suitability for certain applications are based on our knowledge of typical operating conditions for such applications, but are not intended to constitute - and we specifically disclaim - any warranty concerning suitability for a specific customer application or use. This Information is 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.

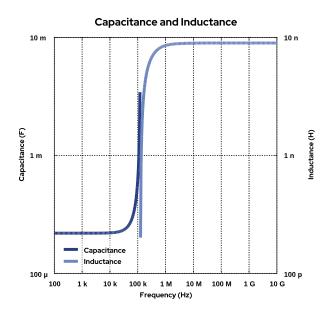


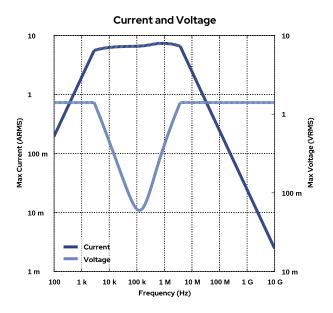
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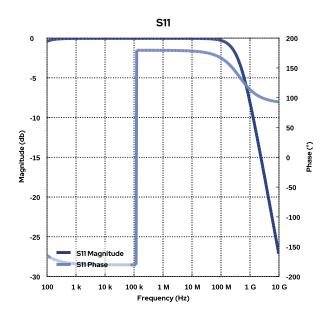
Simulations

For the complete simulation environment please visit K-SIM.



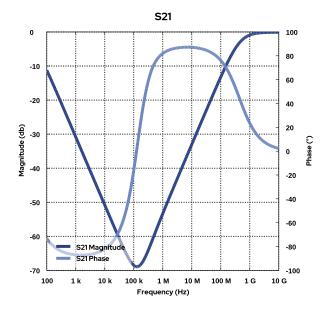








T591, Tantalum, Polymer Tantalum, 220 uF, 20%, 4 VDC, SMD, Polymer, Molded, Low ESR, 18 mOhms, 7343, Height Max = 2mm





T591, Tantalum, Polymer Tantalum, 220 uF, 20%, 4 VDC, SMD, Polymer, Molded, Low ESR, 18 mOhms, 7343, Height Max = 2mm

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.