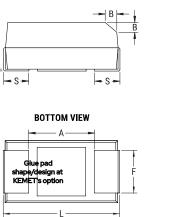


P-

T591D106M035ATE120

T591, Tantalum, Polymer Tantalum, Commercial Grade, 10 uF, 20%, 35 VDC, SMD, Polymer, Molded, Low ESR, 120 mOhms, 7343, 3.1 mm, 1.3 mm

CATHODE (-) END VIEW SIDE VIEW W B Ĥ - S --Termination cutout at KEMET's option, either end BOTTOM VIEW ANODE (+) END VIEW – A pad sign at KEMET's option



Click here for the 3D model.

General Information			
Series	T591		
Dielectric	Polymer Tantalum		
Style	SMD Chip		
Description	SMD, Polymer, Molded, Low ESR		
Features	Automotive		
RoHS	Yes		
Termination	Tin		
Qualifications	AEC-Q200 (Limited 500 Hrs 85C/85% RH/Ur)		
AEC-Q200	Subject to PPAP/PSW and change control		
Typical Component Weight	434.8 mg		
Shelf Life	52 Weeks		
MSL	3		

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		
А	3.8mm MIN		
В	0.5mm +/-0.15mm		
Р	0.9mm REF		
R	1mm REF		
Х	0.1mm +/-0.1mm REF		
Packaging Specifications			

T&R, 178mm

500

Specifications	
Capacitance	10 uF
Tolerance	20%
Voltage DC	35 VDC (105C), 23.45 VDC (125C)
Temperature Range	-55/+125°C
Rated Temperature	105°C
Humidity	85C, 85% RH, load, 500 Hour
Dissipation Factor	10% 120Hz 25C
Failure Rate	N/A
ESR	120 mOhms (100kHz 25C)
Ripple Current	1940 mA (rms, 100kHz 45C), 1358 mA (rms, 105C), 485 mA (rms, 125C)
Leakage Current	35 uA (5min 25°C)

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35 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.

Packaging

Packaging Quantity

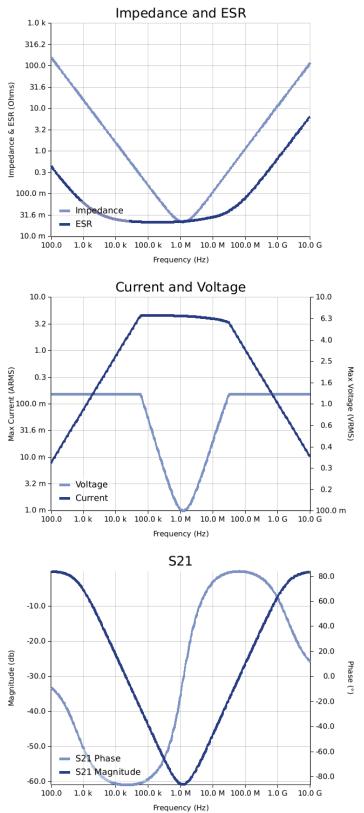


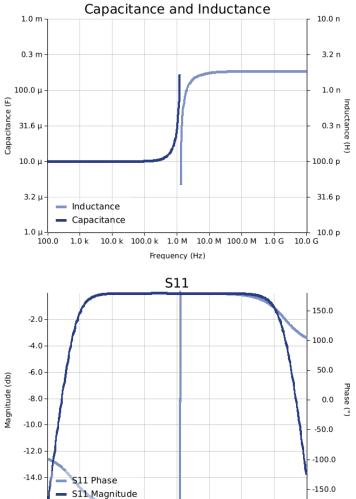
T591D106M035ATE120

T591, Tantalum, Polymer Tantalum, Commercial Grade, 10 uF, 20%, 35 VDC, SMD, Polymer, Molded, Low ESR, 120 mOhms, 7343, 3.1 mm, 1.3 mm

Simulations

For the complete simulation environment please visit K-SIM.





-16.0

100.0

1.0 k

10.0 k 100.0 k 1.0 M

Frequency (Hz)

10.0 M 100.0 M 1.0 G 10.0 G



T591, Tantalum, Polymer Tantalum, Commercial Grade, 10 uF, 20%, 35 VDC, SMD, Polymer, Molded, Low ESR, 120 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.