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T520V686M010ATE045

General Information

T520, Tantalum, Polymer Tantalum, 68 uF, 20%, 10 VDC, SMD, Polymer, Molded, Low Profile/ESR, NonCombustible, 45 mOhms, 7343, Height Max = 19mm

CATHODE (-) END VIEW For TS20 Series, bev is at KEMET's option ANODE (+) END VIEW BOTTOM VIEW Termination cutout at KEMET's option, either end

es, bevel option	Series	T520
	Dielectric	Polymer Tantalum
	Style	SMD Chip
	Description	SMD, Polymer, Molded, Low Profile/ESR, NonCombustible
	Features	Low ESR
	RoHS	Yes
	Termination	Tin
	AEC-Q200	No
	Component Weight	274.3 mg
	Shelf Life	52 Weeks
	MSL	3

Dimensions			
Footprint	7343		
L	7.3mm +/-0.3mm		
W	4.3mm +/-0.3mm		
Н	1.8mm +/-0.1mm		
Т	0.13mm REF		
S	1.3mm +/-0.3mm		
F	2.4mm +/-0.1mm		
A	3.6mm MIN		
X	0.05mm REF		

Specifications	
Capacitance	68 uF
Capacitance Tolerance	20%
Voltage DC	10 VDC (105C)
Temperature Range	-55/+105°C
Rated Temperature	105°C
Life	2000 Hrs (105C)
Humidity	60C, 90% RH, 500 Hours, No Load
Dissipation Factor	10% 120Hz 25C
Failure Rate	N/A
Resistance	45 mOhms (100kHz 25C)
Ripple Current	2000 mA (rms, 100kHz 45C), 1400 mA (rms, 85C), 500 mA (rms, 105C)
Leakage Current	68 uA (5min 25°C)

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

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.

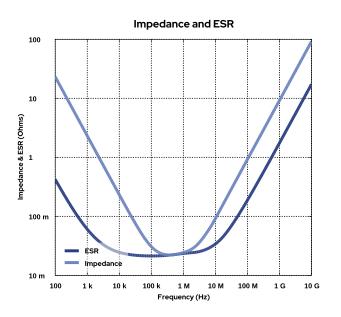


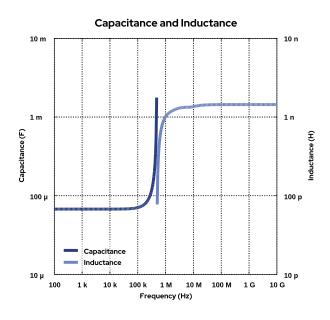
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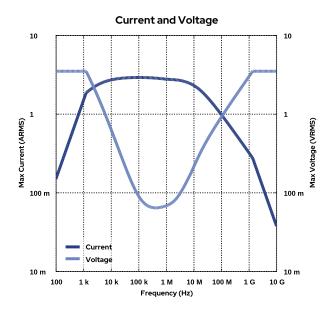
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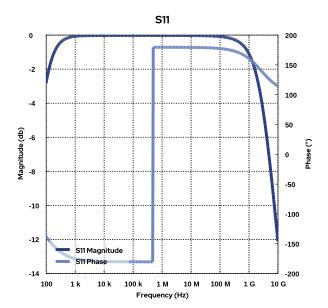
Simulations

For the complete simulation environment please visit K-SIM.





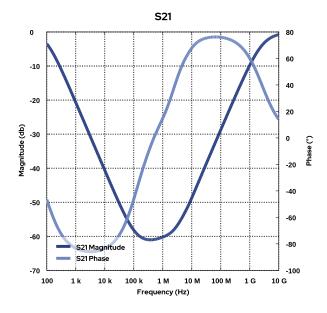






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T520, Tantalum, Polymer Tantalum, 68 uF, 20%, 10 VDC, SMD, Polymer, Molded, Low Profile/ESR, NonCombustible, 45 mOhms, 7343, Height Max = 1.9mm





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T520, Tantalum, Polymer Tantalum, 68 uF, 20%, 10 VDC, SMD, Polymer, Molded, Low Profile/ESR, NonCombustible, 45 mOhms, 7343, Height Max = $\frac{1}{2}$

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.