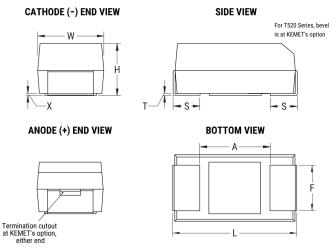


T520, Tantalum, Polymer Tantalum, 470 uF, 20%, 6.3 VDC, SMD, Polymer, Molded, Low Profile/ESR, NonCombustible, 55 mOhms, 7343, Height Max = 15mm



Click here for the 3D model.

Dimensions	
Footprint	7343
L	7.3mm +/-0.3mm
W	4.3mm +/-0.3mm
Н	1.4mm +/-0.1mm
Т	0.13mm REF
S	1.3mm +/-0.3mm
F	2.4mm +/-0.1mm
Α	3.6mm MIN
X	0.05mm REF

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

General Information	
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	222.95 mg
Shelf Life	52 Weeks
MSL	3

Capacitance 470 uF Capacitance Tolerance 20% Voltage DC 6.3 VDC (85C) Temperature Range -55/+85°C Rated Temperature 85°C Life 2000 Hrs (85C) Humidity 60C, 90% RH, 500 Hours, No Load Dissipation Factor 10% 120Hz 25C Failure Rate N/A Resistance 55 mOhms (100kHz 25C) Ripple Current 1800 mA (rms, 100kHz 45C), 1260 mA (rms, 85C) Leakage Current 296.1 uA (5min 25°C)	Specifications	
Tolerance 20% Voltage DC 6.3 VDC (85C) Temperature Range -55/+85°C Rated Temperature 85°C Life 2000 Hrs (85C) Humidity 60C, 90% RH, 500 Hours, No Load Dissipation Factor 10% 120Hz 25C Failure Rate N/A Resistance 55 mOhms (100kHz 25C) Ripple Current 1800 mA (rms, 100kHz 45C), 1260 mA (rms, 85C)	Capacitance	470 uF
Temperature Range -55/+85°C Rated Temperature 85°C Life 2000 Hrs (85C) Humidity 60C, 90% RH, 500 Hours, No Load Dissipation Factor 10% 120Hz 25C Failure Rate N/A Resistance 55 mOhms (100kHz 25C) Ripple Current 1800 mA (rms, 100kHz 45C), 1260 mA (rms, 85C)		20%
Rated Temperature 85°C Life 2000 Hrs (85C) Humidity 60C, 90% RH, 500 Hours, No Load Dissipation Factor 10% 120Hz 25C Failure Rate N/A Resistance 55 mOhms (100kHz 25C) Ripple Current 1800 mA (rms, 100kHz 45C), 1260 mA (rms, 85C)	Voltage DC	6.3 VDC (85C)
Life 2000 Hrs (85C) Humidity 60C, 90% RH, 500 Hours, No Load Dissipation Factor 10% 120Hz 25C Failure Rate N/A Resistance 55 mOhms (100kHz 25C) Ripple Current 1800 mA (rms, 100kHz 45C), 1260 mA (rms, 85C)	Temperature Range	-55/+85°C
Humidity 60C, 90% RH, 500 Hours, No Load Dissipation Factor 10% 120Hz 25C Failure Rate N/A Resistance 55 mOhms (100kHz 25C) Ripple Current 1800 mA (rms, 100kHz 45C), 1260 mA (rms, 85C)	Rated Temperature	85°C
Dissipation Factor 10% 120Hz 25C Failure Rate N/A Resistance 55 mOhms (100kHz 25C) Ripple Current 1800 mA (rms, 100kHz 45C), 1260 mA (rms, 85C)	Life	2000 Hrs (85C)
Failure Rate N/A Resistance 55 mOhms (100kHz 25C) Ripple Current 1800 mA (rms, 100kHz 45C), 1260 mA (rms, 85C)	Humidity	60C, 90% RH, 500 Hours, No Load
Resistance 55 mOhms (100kHz 25C) Ripple Current 1800 mA (rms, 100kHz 45C), 1260 mA (rms, 85C)	Dissipation Factor	10% 120Hz 25C
Ripple Current 1800 mA (rms, 100kHz 45C), 1260 mA (rms, 85C)	Failure Rate	N/A
Ripple Current 85C)	Resistance	55 mOhms (100kHz 25C)
Leakage Current 296.1 uA (5min 25°C)	Ripple Current	
	Leakage Current	296.1 uA (5min 25°C)

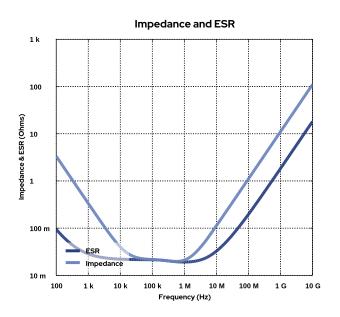
Statements of suitability for certain applications are based on our knowledge of typical operating conditions for such applications, but are not intended to constitute - and we specifically disclaim - any warranty concerning suitability for a specific customer application or use. This Information is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

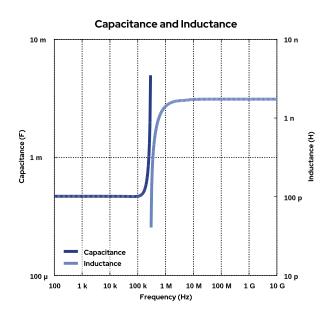


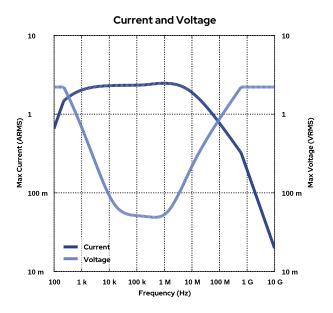
T520, Tantalum, Polymer Tantalum, 470 uF, 20%, 6.3 VDC, SMD, Polymer, Molded, Low Profile/ESR, NonCombustible, 55 mOhms, 7343, Height Max = 15mm

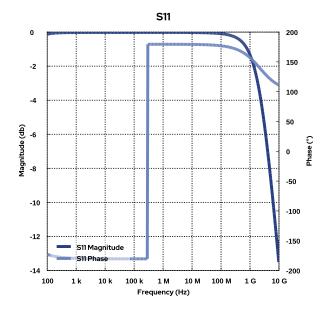
Simulations

For the complete simulation environment please visit K-SIM.



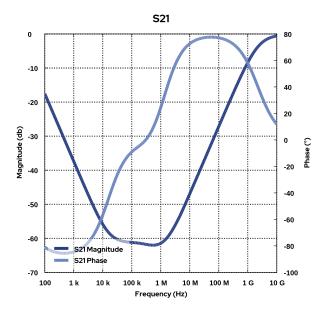








T520, Tantalum, Polymer Tantalum, 470 uF, 20%, 6.3 VDC, SMD, Polymer, Molded, Low Profile/ESR, NonCombustible, 55 mOhms, 7343, Height Max = 1.5mm





T520, Tantalum, Polymer Tantalum, 470 uF, 20%, 6.3 VDC, SMD, Polymer, Molded, Low Profile/ESR, NonCombustible, 55 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.