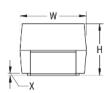


T520B336M006AHE040

T520, Tantalum, Polymer Tantalum, 33 uF, 20%, 6.3 VDC, SMD, Polymer, Molded, Low ESR, Non-Combustible, 40 mOhms, 3528, Height Max = 2mm

CATHODE (-) END VIEW

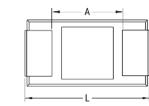


ANODE (+) END VIEW

R

Ρ

SIDE VIEW For TS20 Series, bevel is at KEMET's option



General Informatior	n l
Series	T520
Dielectric	Polymer Tantalum
Style	SMD Chip
Description	SMD, Polymer, Molded, Low ESR, Non- Combustible
Features	Low ESR
RoHS	No
Prop 65	A WARNING: Cancer and reproductive harm - http://www.p65warnings.ca.gov.
SCIP Number	b064b03e-bd75-42af-b342-1fe94dec2340
Termination	Tin Lead (SnPb)
AEC-Q200	No
Component Weight	94.85 mg
Shelf Life	52 Weeks
MSL	3

Click	horo	for	tho	20	model.	

Termination cutout at KEMET's option, either end

Dimensions	
Footprint	3528
L	3.5mm +/-0.2mm
W	2.8mm +/-0.2mm
Н	1.9mm +/-0.1mm
Т	0.13mm REF
S	0.8mm +/-0.3mm
F	2.2mm +/-0.1mm
А	1.9mm MIN
В	0.4mm +/-0.15mm
Р	0.5mm REF
R	1mm REF
Х	0.1mm +/-0.1mm

T-

Packaging Specifications	
Packaging	T&R, 178mm
Packaging Quantity	2000

Capacitance33 uFCapacitance Tolerance20%Voltage DC6.3 VDC (105C)Temperature Range-55/+105°CRated Temperature105°CLife2000 Hrs (105C)Humidity60C, 90% RH, 500 Hours, No LoadDissipation Factor8% 120Hz 25CFailure RateN/AResistance40 mOhms (100kHz 25C), 1260 mA (rms, 85C), 450 mA (rms, 105c)Ripple Current1800 mA (rms, 100kHz 45C), 1260 mA (rms, 85C), 450 mA (rms, 105c)	Specifications	
Tolerance20%Voltage DC6.3 VDC (105C)Temperature Range-55/+105°CRated Temperature105°CLife2000 Hrs (105C)Humidity60C, 90% RH, 500 Hours, No LoadDissipation Factor8% 120Hz 25CFailure RateN/AResistance40 mOhms (100kHz 25C)Biople Current1800 mA (rms, 100kHz 45C), 1260 mA (rms,	Capacitance	33 uF
Temperature Range-55/+105°CRated Temperature105°CLife2000 Hrs (105C)Humidity60C, 90% RH, 500 Hours, No LoadDissipation Factor8% 120Hz 25CFailure RateN/AResistance40 mOhms (100kHz 25C)Biople Current1800 mA (rms, 100kHz 45C), 1260 mA (rms,	•	20%
Range-55/+105 CRated Temperature105°CLife2000 Hrs (105C)Humidity60C, 90% RH, 500 Hours, No LoadDissipation Factor8% 120Hz 25CFailure RateN/AResistance40 mOhms (100kHz 25C)Biople Current1800 mA (rms, 100kHz 45C), 1260 mA (rms,	Voltage DC	6.3 VDC (105C)
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Dissipation Factor8% 120Hz 25CFailure RateN/AResistance40 mOhms (100kHz 25C)Bipple Current1800 mA (rms, 100kHz 45C), 1260 mA (rms, 100kHz 45C)	Life	2000 Hrs (105C)
Failure Rate N/A Resistance 40 mOhms (100kHz 25C) Bipple Current 1800 mA (rms, 100kHz 45C), 1260 mA (rms, 100kHz 45C)	Humidity	60C, 90% RH, 500 Hours, No Load
Resistance40 mOhms (100kHz 25C)Bipple Current1800 mA (rms, 100kHz 45C), 1260 mA (rms,	Dissipation Factor	8% 120Hz 25C
Bipple Current 1800 mA (rms, 100kHz 45C), 1260 mA (rms,	Failure Rate	N/A
RIDDIA (Urrent	Resistance	40 mOhms (100kHz 25C)
65C), 450 MA (MIS, 105C)	Ripple Current	1800 mA (rms, 100kHz 45C), 1260 mA (rms, 85C), 450 mA (rms, 105C)
Leakage Current 20.8 uA (5min 25°C)	Leakage Current	20.8 uA (5min 25°C)

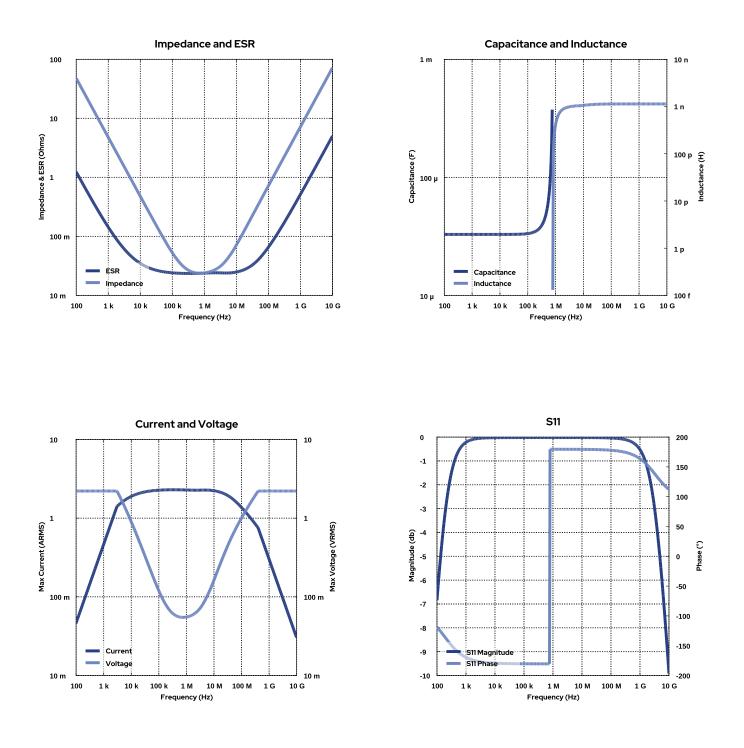
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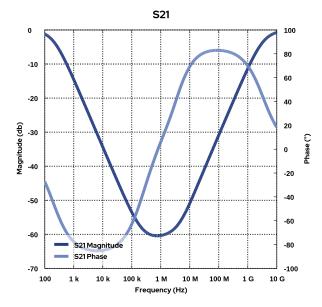
Simulations

For the complete simulation environment please visit K-SIM.











T520B336M006AHE040

T520, Tantalum, Polymer Tantalum, 33 uF, 20%, 6.3 VDC, SMD, Polymer, Molded, Low ESR, Non-Combustible, 40 mOhms, 3528, 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
- 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.