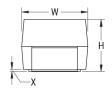


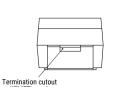
## T521W476M020AHE040

T521, Tantalum, Polymer Tantalum, 47 uF, 20%, 20 VDC, SMD, Polymer, Molded, Low Profile/ESR, NonCombustible, 40 mOhms, 7343, Height Max = 1.5mm

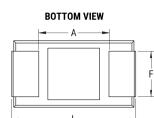
CATHODE (-) END VIEW



SIDE VIEW



ANODE (+) END VIEW



at KEMET's option,	
either end	

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		
А	3.6mm MIN		
Х	0.05mm REF		

Т

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

General Information				
Series	T521			
Dielectric	Polymer Tantalum			
Style	SMD Chip			
Description	SMD, Polymer, Molded, Low Profile/ESR, NonCombustible			
Features	Low ESR, High Voltage			
RoHS	No			
Prop 65	A WARNING: Cancer and reproductive harm - http://www.p65warnings.ca.gov.			
SCIP Number	b064b03e-bd75-42af-b342-1fe94dec2340			
Termination	Solder Coated			
AEC-Q200	No			
Component Weight	222.95 mg			
Shelf Life	52 Weeks			
MSL	3			

Specifications				
Capacitance	47 uF			
Capacitance Tolerance	20%			
Voltage DC	20 VDC (105C)			
Temperature Range	-55/+105°C			
Rated Temperature	105°C			
Life	2000 Hrs (105C)			
Humidity	60C, 90% RH, 500 Hours, No Load			
<b>Dissipation Factor</b>	9% 120Hz 25C			
Failure Rate	N/A			
Resistance	40 mOhms (100kHz 25C)			
Ripple Current	2530 mA (rms, 100kHz 45C), 1771 mA (rms, 85C), 632.5 mA (rms, 105C)			
Leakage Current	94 uA (5min 25°C)			

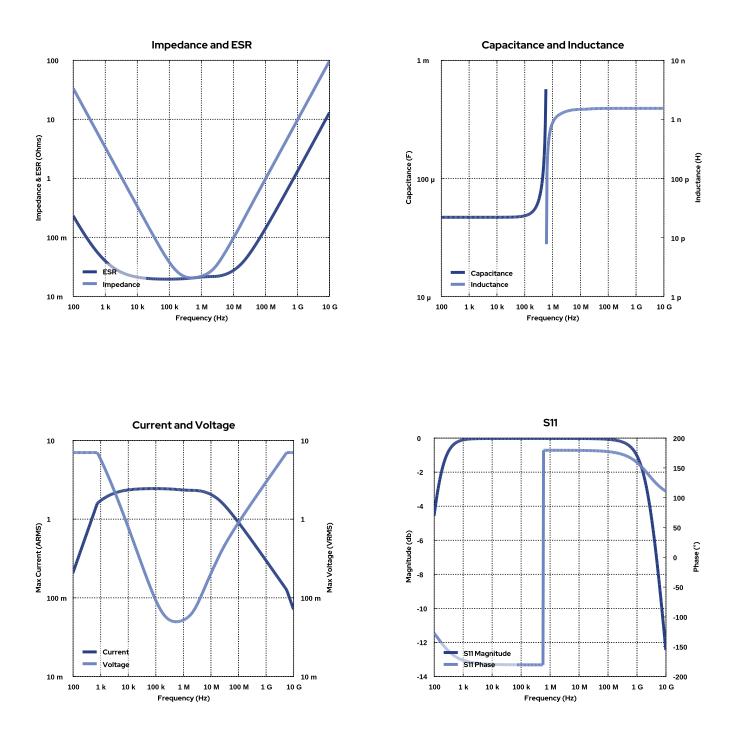
Statements of suitability for certain applications are based on our knowledge of typical operating conditions for such applications, but are not intended to constitute - and we specifically disclaim - any warranty concerning suitability for a specific customer application or use. This Information is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



T521W476M020AHE040 T521, Tantalum, Polymer Tantalum, 47 uF, 20%, 20 VDC, SMD, Polymer, Molded, Low Profile/ESR, NonCombustible, 40 mOhms, 7343, Height Max =

## Simulations

For the complete simulation environment please visit K-SIM.

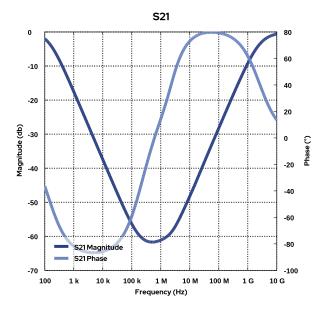


1.5mm





T521, Tantalum, Polymer Tantalum, 47 uF, 20%, 20 VDC, SMD, Polymer, Molded, Low Profile/ESR, NonCombustible, 40 mOhms, 7343, Height Max = 1.5mm





## T521W476M020AHE040

T521, Tantalum, Polymer Tantalum, 47 uF, 20%, 20 VDC, SMD, Polymer, Molded, Low Profile/ESR, NonCombustible, 40 mOhms, 7343, Height Max = 1.5mm

## 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.