



KEMET Organic Capacitors

T520 & T521 High Voltage Polymer Tantalum



Why Choose KEMET

KEMET Corporation is a leading global supplier of electronic components. We offer our customers the broadest selection of capacitor technologies in the industry, along with an expanding range of electromechanical devices, electromagnetic compatibility solutions and supercapacitors. Our vision is to be the preferred supplier of electronic component solutions for customers demanding the highest standards of quality, delivery and service.

Features & Benefits

- Volumetric efficiency
- High ripple current capability
- Low ESR
- High reliability
- 100% surge current tested
- Benign failure mode
- Stable temperature characteristics
- High voltage capability (T521 only)
- High frequency capacitance retention (T520 only)
- RoHS compliant and halogen-free

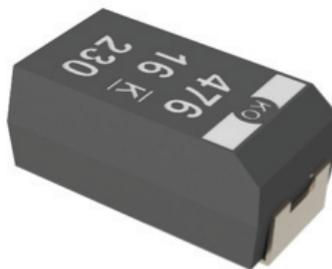
Product Checklist

- What is the circuit operating voltage?
- What is the circuit switching frequency?
- Are there any voltage spikes expected?
- Are there any environmental concerns such as temperature, moisture or vibration?
- Are there any safety concerns?
- Are there any physical space restrictions?

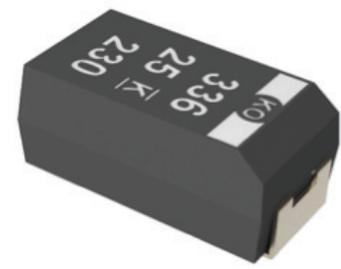
For more information, samples and engineering kits, please visit us at www.kemet.com or call 1.877.myKEMET.

Programs Supported

- DC/DC converters
- Portable electronics
- Telecommunications
- Solid state drives
- Hard disk drives
- USB drives
- Defense
- Aerospace
- Medical applications
- Power supplies



T520 Series



T521 High Voltage Series

Electrical/Physical Characteristics

Series	Tolerances	Temperature Range	Voltage Options	Capacitance Values	Leakage Current
T520	M Tolerance (20%)	-55°C to 105°C	2.5 – 25 V	10 μ F – 1,500 μ F	\leq 0.1 CV (μ A) at rated voltage after 5 minutes
T521 High Voltage	M Tolerance (20%)	-55°C to 105°C/125°C	16 – 63 V	15 μ F – 330 μ F	\leq 0.1 CV (μ A) at rated voltage after 5 minutes



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T520 Series Polymer Tantalum Ordering Information

T	520	V	157	M	006	A	T	E045	
Capacitor Class	Series	Case Size	Capacitance Code (pF)	Capacitance Tolerance	Voltage (VDC)	Failure Rate/ Design	Lead Material	ESR Code	Packaging (C-Spec)
T = Tantalum	520 = Polymer	A B C D H L M Q T U V W X Y	First two digits represent significant figures. Third digit specifies number of zeros.	M = ±20%	002 = 2V 2R5 = 2.5V 003 = 3V 004 = 4V 006 = 6.3V 008 = 8V 010 = 10V 011 = 11V 12R = 12.5V 016 = 16V 020 = 20V 025 = 25V	A = N/A	T = 100% Matte Tin (Sn) Plated H = Tin/Lead (SnPb) Solder Coated (5% Pb minimum) N = Non-Magnetic 100% Tin (Sn) M = Non-Magnetic (SnPb)	E = ESR Last three digits specify ESR in mΩ (045 = 45 mΩ)	Blank = 7" Reel 7280 = 13" Reel

T521 High Voltage Polymer Tantalum Ordering Information

T	521	V	226	M	025	A	T	E060	
Capacitor Class	Series	Case Size	Capacitance Code (pF)	Capacitance Tolerance	Voltage (VDC)	Failure Rate/ Design	Lead Material	ESR Code	Packaging (C-Spec)
T = Tantalum	521 = High Voltage Polymer	B D Q V W X	First two digits represent significant figures. Third digit specifies number of zeros.	M = ±20%	016 = 16 V 020 = 20 V 025 = 25 V 035 = 35 V 050 = 50 V 063 = 63 V	A = N/A	T = 100% Matte Tin (Sn) Plated H = Tin/Lead (SnPb) Solder Coated (5% Pb minimum)	E = ESR Last three digits specify ESR in mΩ (060 = 60mΩ)	Blank = 7" Reel 7280 = 13" Reel