



KEMET Organic Capacitor

T520 Series Polymer Tantalum



Why Choose KEMET

KEMET applies world-class service and quality to deliver industry-leading, high performance capacitance solutions worldwide. With 95% of possible dielectric solutions, KEMET offers the world's most complete line of surface mount and through-hole capacitor technologies across tantalum, ceramic, film, aluminum and paper dielectrics. One world. One KEMET.

Features & Benefits

- Extremely low ESR
- Polymer cathode technology
- High frequency capacitance retention
- Non-ignition failure mode
- 100% accelerated steady state aging
- 100% surge current tested
- Taped and reeled per EIA 481-1
- Volumetric efficiency
- Self-healing mechanism

Product Checklist

- What is the circuit switching frequency?
- What is the circuit operating voltage?
- Are there any environmental concerns, e.g., humidity?

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

Programs Supported

- DC/DC converters
- Notebook PCs
- Portable electronics
- Telecommunications (mobile phone and base station)
- Displays
- Solid state drives
- Hard disk drives
- USB drives

Electrical/Physical Characteristics

Case Sizes	Tolerances	Temperature Range	Voltage Options	Capacitance Values	Leakage Current
T520					
EIA standard case sizes	M Tolerance (20%)	-55°C to + 105°C	2.5 – 25 V	10 – 1500 μ F @ 120 Hz/25°C	\leq 0.1 CV (μ A) at rated voltage after 5 minutes



Ordering Information

Capacitor Class	Series	Case Sizes	Capacitance Code (pF)	Capacitance Tolerance	Voltage	Failure Rate/ Design	Termination Finish	ESR Code	Packaging (C-Spec)
T	520	V	157	M	006	A	T	E045	
T = Tantalum	520 = Polymer	A = 3216-18 B = 3528-21 C = 6032-28 D = 7343-31 H = 7360-20 L = 6032-19 M = 3528-15 T = 3528-12 U = 6032-15 V = 7343-19 W = 7343-15 X = 7343-43 Y = 7343-40	First two digits represent significant figures. Third digit specifies number of zeros.	M = \pm 20%	002 = 2 V 2R5 = 2.5 V 003 = 3 V 004 = 4 V 006 = 6.3 V 008 = 8 V 010 = 10 V 12R = 12.5 V 016 = 16 V 020 = 20 V 025 = 25 V	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 mOhms. (045 = 45 mOhms)	Blank = 7" Reel 7280 = 13" Reel