



# KEMET Organic Capacitor

## T543 Series Polymer Tantalum COTS

The Capacitance Company  
**KEMET**  
CHARGED.®

### 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
- High frequency capacitance retention
- Polymer cathode technology
- Non-ignition failure mode
- Volumetric efficiency and self-healing mechanism
- 100% accelerated steady state aging
- 100% surge current tested
- Surge options at +25°C and -55°C/85°C

### Product Checklist

- What is the circuit switching frequency?
- What is the circuit operating voltage?
- Are there any voltage spikes expected?
- Are there any environmental concerns?
- What are the physical space restrictions?

For more information, samples and engineering kits, please visit us at [www.kemet.com](http://www.kemet.com) or call 1.877.myKEMET.

### Programs Supported

- DC/DC converters
- Switch mode and point of load power supply
- Radar pulse capacitor
- Telecommunications (mobile phones and base stations)
- Decoupling and filtering in defense applications that require low ESR or a benign failure mode

### Electrical/Physical Characteristics

Case Sizes	Tolerances	Dielectric	Temperature Range	Voltage Options	Capacitance Values
<b>T543</b>					
A, B, C, D, H, L, M, T, U, V, W, X, Y	±10%, ±20%	Tantalum Pentoxide $Ta_2O_5$	-55°C to +105°C	2.5 – 50 V	Up to 1,500 $\mu$ F



### Ordering Information

Capacitor Class	Series	Case Sizes	Capacitance Code (pF)	Capacitance Tolerance	Voltage	Failure Rate/Design	Lead Material	Surge	ESR
T	543	D	156	K	035	A	H	E	100
T = Tantalum	Polymer Tantalum COTS	A, B, C, D, H, L, M, T, U, V, W, X, Y	First two digits represent significant figures. Third digit specifies number of zeros.	K = ±10% M = ±20%	2R5 = 2.5 V 004 = 4 V 006 = 6.3 V 010 = 10 V 12R = 12.5 V 016 = 16 V 020 = 20 V 025 = 25 V 035 = 35 V 050 = 50 V	A = N/A	H = Standard Solder Coated (SnPb 5% Pb minimum) T = 100% Tin (Sn)	E = None S = 10 Cycles 25°C W = 10 cycles, -55°C and 85°C	ESR in Milliohms