

TANTALUM CAPACITORS

T42

Solid Tantalum Surface-Mount Capacitors, Hi-Rel, Built-in-Fuse, Molded



KEY BENEFITS

- Robust design
- Hi-Rel screening IAW MIL-PRF-55365
- Individually fused multiple anode construction ensures fail-safe operation and graceful degradation in the event of failure
- High capacitance (up to 470 μF); high voltage (up to 75 V rated)

APPLICATIONS

- Avionics
- Military
- Space

RESOURCES

- Datasheet: T42 <u>www.vishay.com/doc?40165</u>
- For technical questions contact tantalum@vishay.com
- Material categorization: For definitions of compliance please see http://www.vishay.com/doc?99912



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One of the World's Largest Manufacturers of Discrete Semiconductors and Passive Components





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PERFORMANCE CHARACTERISTICS

Operating Temperature: -55 °C to +125 °C (above 85 °C, voltage derating is required)

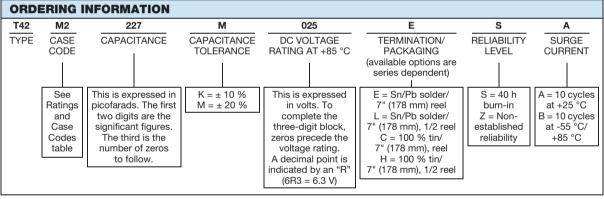
Capacitance: 10 μF to 470 μF Capacitance Tolerance: \pm 10 %, \pm 20 % Voltage Rating: 16 V_{DC} to 75 V_{DC}

FEATURES

- Circuit protection for mission or safety critcal systems
- High-reliability design with reliability screening available
- Surge current testing per MIL-PRF-55365 options available
- Ultra-low ESR
- Fuse characteristics: guaranteed fuse protection at 5 A, 10 ms
- Fuse characteristics are optimized to ensure activation to protect against catastrophic failures while avoiding false triggering
- Mounting: surface-mount
- Terminations: wraparound SnPb, standard. 100 % tin available
- Material categorization: For definitions of compliance please see www.vishay.com/doc?99912

Note

This datasheet provides information about parts that are RoHS-compliant and/or parts that are non-RoHS-compliant. For example, parts with lead (Pb) terminations are not RoHS-compliant. Please see the information/tables in this datasheet for details.



Note

We reserve the right to supply higher voltage ratings and tighter capacitance tolerance capacitors in the same case size. Low ESR solid tantalum chip capacitors allow delta ESR of 1.25 times the datasheet limits after mounting.

