

Author: Mike Mosier
Tel: +1 317-341-3714
E-mail: Mike.Mosier@vishay.com

New T22 SMD Wet Tantalum Capacitor Offers Small Size for Avionics and Aerospace Applications

Product Benefits:

- Glass-to-tantalum hermetic seal
- Compact 9 mm by 7.1 mm by 7.4 mm C case code
- Reverse voltage of 1.5 V at +85 °C
- Thermal shock capability of 300 cycles
- High vibration (sine: 50 g; random: 27.8 g) capability
- Voltage ratings from 50 VDC to 125 VDC
- Capacitance from 10 μ F to 68 μ F
- Capacitance tolerance down to ± 10 %
- Maximum ESR down to 1.50 Ω
- Standard tin / lead (Pb) terminations, with RoHS-compliant 100 % tin terminations available



Market Applications:

- Timing, filtering, energy hold-up, and pulse power applications in power supplies for space and avionics equipment

The News:

Vishay Intertechnology introduces a new tantalum-cased wet tantalum capacitor with a glass-to-tantalum hermetic seal that is the industry's first in the compact 9 mm by 7.1 mm by 7.4 mm C case code. For avionics and aerospace systems, the T22 combines a reverse voltage of 1.5 V at +85 °C with increased thermal shock capability of 300 cycles in a surface-mount package.

- Features a high-reliability design with high vibration and thermal shock capability
- Can replace axial leaded through-hole and less-reliable SMD capacitors

The Key Specifications:

- Capacitance range: 10 μ F to 68 μ F
- Capacitance tolerance: ± 10 % and ± 20 %
- Voltage ratings: 50 VDC to 125 VDC
- Max. ESR at 25 °C and 120 Hz: 1.5 Ω to 5.5 Ω
- Ripple at 40 kHz: 832 mA to 1650 mA
- Operating temperature range: -55 °C to +125 °C (with voltage derating above +85 °C)
- Case code: C

Availability:



New Product Info



Product Group: Vishay, Tantalum Capacitors / **March** 2016

Samples and production quantities of the T22 are available now, with lead times of 10 weeks for larger orders.

To access the product datasheet on the Vishay website, go to <http://www.vishay.com/ppg?40187> (T22)

Contact Information:

THE AMERICAS

Jack Culloton
jack.culloton@vishay.com

EUROPE

Albert Mallet
albert.mallet@vishay.com

ASIA/PACIFIC

Boon Hooi Tan
boonhooi.tan@vishay.com