



New Hermetically Sealed SuperTan[®] Tantalum-Cased Wet Tantalum Capacitors Provide Military H-Level Shock and Vibration Capabilities to Deliver High Reliability for Avionics and Aerospace Applications at a Reduced Cost

Product Benefits:

- High reliability design
 - Hermetic glass-to-metal seals
 - Military H-level shock (500 g) and vibration (sine: 80g; random: 54 g) capabilities
 - Thermal shock up to 300 cycles
- High capacitances from 470 μF to 1500 μF in the D case code
- High temperature operation to +125 °C with voltage derating
- Low ESR down to 0.50 Ω at 120 Hz and + 25 °C
- Standard tin / lead (Pb) terminations, with RoHS-compliant 100 % tin terminations available



Market Applications:

- Energy storage in power supplies, actuators, transponders, and radio, radar, and missile systems, in addition to oil drilling and underwater equipment

The News:

Vishay Intertechnology announces the release of a new series of tantalum-cased wet tantalum capacitors with hermetic glass-to-metal seals. For avionics and aerospace applications, the STH electrolytic capacitors provide all the advantages of Vishay's SuperTan[®] extended series devices, while offering a higher reliability design for improved military H-level shock (500 g) and vibration (sine: 80g; random: 54 g) capabilities and increased thermal shock up to 300 cycles.

- By providing military H-level performance in a SuperTan series, the STH series offers a lower cost alternative to Hi-Rel wet tantalum capacitors, while ensuring the high reliability required by more aggressive mission profiles

The Key Specifications:

- Case size: D
- Capacitance range: 470 μF to 1500 μF
- Capacitance tolerance: $\pm 20\%$ standard, with $\pm 10\%$ available
- Operating temperature range: - 55 °C to + 125 °C
- ESR: 0.50 Ω to 1.00 Ω



NEW PRODUCT INFORMATION



Product Group: Vishay, Tantalum Capacitors / October 2023

Availability:

Samples and production quantities of the new STH wet tantalum capacitors are available now, with lead times of 16 to 20 weeks for larger orders.

To access the product datasheet on the Vishay Website, go to <http://www.vishay.com/ppg?40276> (STH)

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