



**Author:** Mike Mosier  
**Tel:** +1 317-341-3714  
**E-mail:** [Mike.Mosier@vishay.com](mailto:Mike.Mosier@vishay.com)

## New T25 Series: Industry's First Hi-Rel COTS Surface-Mount Solid Tantalum Capacitors With Metal Cases and Hermetic Sealing for Military and Avionics Applications

### Product Benefits:

- Metal cases and hermetic sealing
- Meets the requirements of MIL-STD-202, Method 112, Condition A
- Low ESR down to 180 mΩ at +25 °C and 100 kHz
- Available with surge current testing options in accordance with MIL-PRF-55365
- Offered in the D case code
- Capacitance from 22 μF to 330 μF over voltage ratings from 16 V to 50 V
- Capacitance tolerances of ± 10 % and ± 20 %
- RoHS-compliant
- Available with 100 % tin or tin / lead terminations



### Market Applications:

- Timing applications in avionics and munitions

### The News:

Vishay Intertechnology introduces a new TANTAMOUNT Hi-Rel COTS series of surface-mount solid tantalum chip capacitors for military and avionics applications. The Vishay Sprague T25 series devices are the industry's first to feature metal cases and hermetic sealing to meet the requirements of MIL-STD-202, Method 112, Condition A.

- Offer high reliability with burn-in at rated voltage for a minimum of 40 hours
- Hermetic sealing eliminates any moisture sensitivity



# New Product Info



**Product Group:** Vishay Sprague, Tantalum Capacitors / **November 2014**

## Key Device Specifications:

- ESR: 180 mΩ to 500 mΩ
- Case code: D
- Capacitance range: 22 μF to 330 μF
- Voltage ratings: 16 V to 50 V
- Capacitance tolerance: ± 10 % and ± 20 %
- Operating temperature range: -55 °C to +85 °C, to +125 °C with voltage derating

## The Perspective:

The Vishay Sprague T25 series combines low ESR with high reliability for critical military and avionics applications. In addition to metal cases and hermetic sealing to meet the requirements of MIL-STD-202 and eliminate any moisture sensitivity, the devices are available with surge current testing options in accordance with MIL-PRF-55365 and feature burn-in at rated voltage for a minimum of 40 hours.

**Availability:** Sample and production quantities of the new T25 series are available now, with lead times of 12 to 16 weeks for larger orders.

To access the product datasheet on the Vishay Website, go to <http://www.vishay.com/ppg?40171> (T25)

## 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