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# Multi-Anode Solid Tantalum Capacitors for High Capacitance and Rated Voltages Up to 75 V

Vishay offers leading-edge solid tantalum chip capacitors that combine a multi-anode conformal coated construction with high capacitance / voltage (CV) ratings in a single package for all power supplies and power distribution. Available devices include the commercial 597D series and the Hi-Rel COTS T97, which includes failure rate levels and surge current options and is approved to DLA Drawing 13008. The devices are ideal for use in industrial equipment, civil avionic and defense, space, and communications markets.

Industry standards and established design guidelines typically require voltage derating in solid tantalum capacitors to 50 % of the rated voltage. Vishay's multi-anode solid tantalum devices offer high voltage ratings of 63 V and 75 V, which meet the MIL-STD-704 specification for +28 V buses in aircraft electric power systems.

## Additional Key Advantages

- Leading-edge ratings
  - 680  $\mu\text{F}$  / 16 V, 470  $\mu\text{F}$  / 20 V, 220  $\mu\text{F}$  / 25 V
  - 100  $\mu\text{F}$  / 40 V, 47  $\mu\text{F}$  / 50 V, 33  $\mu\text{F}$  / 63 V, 22  $\mu\text{F}$  / 75 V
- Ultra low DCL down to 8  $\mu\text{A}$
- Low ESR down to 0.018  $\Omega$
- Weibull failure rates A, B, and C available
- Surge current testing per MIL-PRF-55365

## Useful Links

- 597D Product Page [www.vishay.com/ppg?40047](http://www.vishay.com/ppg?40047)
- T97 Product Page [www.vishay.com/ppg?40092](http://www.vishay.com/ppg?40092)
- 13008 Product Page [www.vishay.com/ppg?40164](http://www.vishay.com/ppg?40164)
- Tantalum Parametric Search [www.vishay.com/capacitors/tantalum/](http://www.vishay.com/capacitors/tantalum/)
- Technical Note: Voltage Derating [www.vishay.com/doc?40246](http://www.vishay.com/doc?40246)

## Contact Information

### The Americas

**David Bellomy**  
[David.Bellomy@vishay.com](mailto:David.Bellomy@vishay.com)

### Europe

**Thomas Poessnecker**  
[Thomas.Poessnecker@vishay.com](mailto:Thomas.Poessnecker@vishay.com)

### Asia / Pacific

**BH Tan**  
[Boonhooi.Tan@vishay.com](mailto:Boonhooi.Tan@vishay.com)