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New EP1 Wet Tantalum Capacitor Offers Industry-High Capacitance, Design Flexibility for Military and Avionics Systems

Featuring Multiple Termination and Mounting Options, Device Provides Capacitance to 30,000 μ F in A Case Code

Product Benefits:

- Available with radial through-hole or surface-mount terminations
 - Both terminations offered with a stud mount option
- Ultra high capacitance range from 2,000 μ F to 30,000 μ F in the A case size
 - C case ratings expected in late 2017, with B case ratings available in 2018
- Voltage ratings from 25 VDC to 125 VDC
- Offered in the A, B, and C case codes
- Available with capacitance tolerance down to ± 10 %
- Housed in an all-tantalum, hermetically sealed case for increased reliability
- Maximum ESR down to 0.030 Ω
- Available with tin/lead (Sn/Pb) and RoHS-compliant 100 % tin terminations



Market Applications:

- Pulse power and energy hold-up applications in laser guidance, radar, and avionics systems

The News:

To meet the needs of military and avionics applications, Vishay Intertechnology introduces a new high energy wet tantalum capacitor that delivers the industry's highest capacitance per voltage rating and case size for this device type. For increased design flexibility, the EP1 is available with radial through-hole or surface-mount terminations, each with a stud mount option.

- Built on Vishay's proven SuperTan[®] technology
- Industry-leading values include a capacitance of 13,000 μ F at 50 V in the A case size, which is 18 % greater than the closest competing device



The Key Specifications:

- Capacitance: 2,000 μ F to 30,000 μ F (A case)
- Voltage ratings: 25 VDC to 125 VDC
- Case codes: A, B, and C
- Capacitance tolerance: \pm 20 % standard; \pm 10 % available
- Operating temperature range: -55 °C to +85 °C, to +125 °C with voltage derating
- Max. ESR at 1 kHz and +25 °C: 0.030 Ω to 0.100 Ω

Availability:

Samples and production quantities of the EP1 A case 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?42107> (EP1)

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