# New EP2 Wet Tantalum Capacitor Offers Industry-High Capacitance, Mechanical Robustness for Military and Avionics Systems; Can Be Used as an Exact Drop-in Replacement for Competing Solutions or a Higher Capacitance Alternative

## Product Benefits:

- Ultra high capacitance
  - 2,700 µF to 48,000 µF in the B case code
  - 3,600 µF to 72,000 µF in the C case code
- Voltage ratings from 25 VDC to 125 VDC
- Offered in the B and C case codes
- Available with capacitance tolerance down to ± 10 %
- Housed in an all-tantalum, hermetically sealed case for increased reliability
- Offering robust mechanical performance, the capacitor features high vibration (high frequency: 20 g; random: 19.64 g) and mechanical shock (50 g) capabilities
- Maximum ESR down to 0.017 Ω
- Available with tin / lead (Sn / Pb) and RoHS-compliant 100 % tin terminations
- Available with radial through-hole terminations with a stud mount option

## 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.

- Built on Vishay's proven SuperTan® technology
- The EP2 can be used as an exact drop-in replacement for competing parts or as a higher capacitance alternative in a mechanically equivalent package to reduce component counts, save space, and lower design costs
- The device's industry-leading values include a capacitance of 9,000 µF at 80 V and 58,000 µF at 35 V in the C case size. These values are 50 % and 21 % greater, respectively, than the closest competing device

## The Key Specifications:

- Capacitance:
  - 2,700 µF to 48,000 µF (B case)
  - 3,600 µF to 72,000 µF (C case)
- Voltage ratings: 25 VDC to 125 VDC
- Case codes: B and C
- Capacitance tolerance: ± 20 % standard; ± 10 % available
- Operating temperature range: -55 °C to +85 °C, to +125 °C with voltage derating
- Max. ESR at 1 kHz and +25 °C: 0.017 Ω 0.05 Ω

**Availability:**
Samples and production quantities of the EP2 are available now, with lead times of 16 weeks for larger orders.

To access the product datasheet on the Vishay Website, go to
http://www.vishay.com/ppg?42113 (EP2)

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