



## Extended EP1 High Energy Wet Tantalum Capacitor Features New Ratings in the B and C Case Codes, Offers Industry-High Capacitance and Multiple Termination and Mounting Options for Design Flexibility in Military and Avionics Systems

### Product Benefits:

- Available with radial through-hole or surface-mount terminations
  - Both terminations offered with a stud-mount option
- Ultra high capacitance
  - 3,600  $\mu\text{F}$  to 40,000  $\mu\text{F}$  in the B case code
  - 5,300  $\mu\text{F}$  to 58,000  $\mu\text{F}$  in the C case code
- Voltage ratings from 25 VDC to 125 VDC
- Offered in the A, B, and C case codes
- Available with capacitance tolerance down to  $\pm 10\%$
- Housed in an all-tantalum, hermetically sealed case for increased reliability
- Maximum ESR down to 0.015  $\Omega$
- 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 announces that it has extended its EP1 wet tantalum capacitor with new ratings in the B and C case codes. Offering the industry's highest capacitance per voltage rating and case size for this device type, the capacitor is available with radial through-hole or surface-mount terminations in the A, B, and C case codes, each with a stud-mount option, for increased design flexibility.

- Built on Vishay's proven SuperTan<sup>®</sup> technology
- Industry-leading values include a capacitance of 12,000  $\mu\text{F}$  at 80 V in the C case size, which is 33 % greater than the closest competing device

### The Key Specifications:

- Capacitance:
  - 3,600  $\mu\text{F}$  to 40,000  $\mu\text{F}$  (B case)
  - 5,300  $\mu\text{F}$  to 58,000  $\mu\text{F}$  (C case)
- Voltage ratings: 25 VDC to 125 VDC
- Case codes: A, B, and C
- Capacitance tolerance:  $\pm 20\%$  standard; 10 % available
- Operating temperature range: -55  $^{\circ}\text{C}$  to +85  $^{\circ}\text{C}$ , to +125  $^{\circ}\text{C}$  with voltage derating
- Max. ESR at 1 kHz and +25  $^{\circ}\text{C}$ : 0.100  $\Omega$  to 0.015  $\Omega$



## NEW PRODUCT INFORMATION



Product Group: Vishay, Tantalum Capacitors / September 2020

### Availability:

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

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