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New T34 Series HI-TMP® Wet Tantalum Capacitors Offer Increased Reliability for Industrial and Oil Exploration Applications

Through-Hole Devices Feature Operation to +200 °C, Increased Mechanical Shock and Vibration Capabilities, and Longer Life to Minimum of 1000 Hours

Product Benefits:

- Hermetically sealed, tantalum case
- High temperature operation to +200 °C
- High vibration (sinusoidal: 80 g; random: 54 g) and mechanical shock (500 g) capabilities
- Long life of 1,000 hours minimum at +200 °C
- Offered in the A, B, C, and D case codes
- Voltage ratings from 25 VDC to 125 VDC
- Wide capacitance range from 10 µF to 470 µF
- Maximum ESR down to 0.75 Ω
- RoHS-compliant, halogen-free, and [Vishay Green](#)
- Lead (Pb)-free and tin/lead (Sn/Pb) terminations available



Market Applications:

- Timing, filtering, energy hold-up, and pulse power applications

The News:

Vishay Intertechnology introduces a new series of HI-TMP tantalum-cased, hermetically sealed wet tantalum capacitors with high temperature operation to +200 °C. Offering increased reliability for industrial and oil exploration applications, T34 series axial-leaded through-hole devices deliver increased mechanical shock and vibration withstand ability, along with longer life.

- Capacitance extensions planned to match current Vishay Sprague 134D series ratings



The Key Specifications:

- Operating temperature range: -55 °C to +85 °C (to +200 °C with voltage derating)
- Case codes: A, B, C, and D
- Voltage ratings: 25 VDC to 125 VDC
- Capacitance range: 10 μ F to 470 μ F
- Capacitance tolerance: $\pm 10\%$ and $\pm 20\%$
- Maximum ESR: 0.75 Ω to 5.5 Ω at 120 Hz and +25 °C

Availability:

Samples and production quantities of the T34 series are available, with lead times of 12 weeks for larger orders.

To access the product datasheet on the Vishay Website, go to:

<http://www.vishay.com/ppg?40228> (T34).

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