

Extended T55 Series of Polymer Tantalum Chip Capacitors Now Available in Z Case (EIA 7343-19) Size

Product Benefits:

- Offered in the compact J, P, A, B, T (low-profile B — 1.2 mm max), D, V, and Z case sizes
- Wide capacitance range from 3.3 μF to 680 μF , with values up to 1000 μF in development
- Capacitance tolerance of $\pm 20\%$
- Voltage ratings from 2.5 V to 63 V
- Ultra low ESR from 500 m Ω down to 7 m Ω at +25 °C, with values down to 6 m Ω in development
- Operating temperature range of -55 °C to +105 °C
- Excellent ripple current rating up to 5.66 A I_{RMS}
- Lead (Pb)-free terminations
- RoHS-compliant, halogen-free, and [Vishay Green](#)
- Compatible with high volume automatic pick and place equipment
- Moisture Sensitivity Level (MSL) of 3



Market Applications:

- Power management, battery decoupling, and energy storage in computers, servers, network infrastructure equipment, solid-state drives, and wireless transceivers

Buy It Now:

[Check distributor stock on the Vishay website](#)

The News:

Vishay Intertechnology today announced that the company has extended its T55 series of vPolyTan™ surface-mount polymer tantalum molded chip capacitors with new devices in the Z case size.

- 0.1 mm lower height than devices in the standard V case
 - Increase package density and enable the design of thinner end products
- Ultra low ESR is a result of polymer cathodes, which offer greatly enhanced performance over manganese dioxide devices
- Provide low internal resistance for enhanced charge and discharge characteristics



The Key Specifications:

- Case sizes: J, P, A, B, T, D, V, and Z
- Capacitance: 3.3 μ F to 680 μ F (values up to 1000 μ F in development)
- Tolerance: \pm 20 %
- Voltage: 2.5 V to 63 V
- ESR: 7 m Ω to 500 m Ω (values down to 6 m Ω in development)

Availability:

Samples and production quantities of the T55 series capacitors in the Z case size are available now, with lead times of 12 to 14 weeks for larger orders.

To access the product datasheet on the Vishay Website, go to <http://www.vishay.com/ppg?40174> (T55)

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