



The DNA of tech.™



T59 Polymer Tantalum Capacitor Series Now Qualified for Operation to +125 °C

Our tantalum capacitors division offers a variety of molded devices with polymer cathode systems, including the T59 series. In addition to their industry-high capacitance / voltage ratings — including 47 uF at 50 V and 22 uF at 75 V — we've recently extended the operating temperature range for the T59 devices to +125 °C, with industry-standard voltage derating practices.

The T59 series features a dual-anode system that results in a 50 % reduction in ESR compared to traditional devices. In addition, Vishay's proprietary advanced packaging alleviates the lead frame found in standard molded packages, which translates into the highest volumetric efficiency in the industry. This means more capacitance in each package. The industrial-grade devices are 100 % surge current tested and are available with either RoHS-compliant tin (Sn) or tin / lead (Sn / Pb) terminations, which are traditionally preferred for military and aerospace applications. The 360° wraparound terminations allow for a variety of mounting options to potentially free up board space.

Key Advantages

- Temperature rating to +125 °C
- Best in class capacitance / voltage ratings
- Low ESR due to Vishay's advanced packaging technology
- 100 % surge current tested
- Lead-frameless design for ultra-high volumetric efficiency

Useful Links

- T59 Product Page www.vishay.com/ppg?40191
- 3D Model www.vishay.com/doc?40225
- VITA_SPICE Simulation Models www.vishay.com/capacitors/vita-spice/
- Polymer Tantalum FAQ www.vishay.com/doc?42106

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