



Vishay Intertechnology Solid Tantalum Molded Chip Capacitors Deliver Enhanced Performance for Electronic Detonation Systems

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TANTAMOUNT™ Devices Combine a Robust Design With Low 0.005CV DCL and Stringent Testing Specifications to Ensure Reliable Detonation in Harsh Environments

MALVERN, Pa., July 03, 2024 (GLOBE NEWSWIRE) -- Vishay Intertechnology, Inc. (NYSE: VSH) today introduced a new series of TANTAMOUNT™ surface-mount solid tantalum molded chip capacitors designed specifically for electronic detonation systems. Combining a robust mechanical design with low leakage current (DCL) and stringent testing specifications, Vishay Sprague [TX3](#) series devices deliver enhanced performance and reliability over commercial tantalum capacitors and MLCCs.

With low DCL values of 0.005CV — and the high energy density of tantalum compared to other capacitive technology — the capacitors released today deliver more energy to ensure proper ignition. This makes them ideal for remote detonation systems with reliable discharge requirements in mining and demolition applications. The devices' tantalum anode technology, combined with Vishay's best in class dielectric formation, ensures stable electric performance in these harsh environments.

To ensure reliability, TX3 series capacitors are tested to more stringent criteria than standard commercial offerings. Each part is 100% surge current tested using standard screening methods, and undergoes two additional screenings for key electrical characteristics to eliminate lot to lot variations. Providing a robust solution, the devices' capacitive element and lead frame are encapsulated by hard plastic resin. Compared to MLCCs, they offer higher shock (100 g) and vibration (20 g) capabilities in accordance with MIL-STD-202.

Available in the B (EIA 3528-21) and C (EIA 6032-28) case sizes, the TX3 series offers a capacitance range from 10 μ F to 100 μ F over voltage ratings from 16 V to 25 V and a capacitance tolerance down to \pm 10%. The devices provide ESR from 0.700 Ω to 2.3 Ω at +25 °C, ripple current to 0.438 A, and high temperature operation to +125 °C. Featuring lead (Pb)-free terminations, TX3 series devices are RoHS-compliant, halogen-free, and [Vishay Green](#).

Samples and production quantities of the new solid tantalum capacitors are available now, with lead times of 10 to 12 weeks. For pricing, please consult your local Vishay representative.

Vishay manufactures one of the world's largest portfolios of discrete semiconductors and passive electronic components that are essential to innovative designs in the automotive, industrial, computing, consumer, telecommunications, military, aerospace, and medical markets. Serving customers worldwide, Vishay is **The DNA of tech**.® Vishay Intertechnology, Inc. is a Fortune 1,000 Company listed on the NYSE (VSH). More on Vishay at www.Vishay.com.

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Link to product datasheet:

<http://www.vishay.com/ppg?40283> (TX3)

Link to product photo:

<https://www.flickr.com/photos/vishay/albums/72177720318300451>

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