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AVX Develops Low Profile, Low ESL Multi-Anode 'Mirror' Tantalum Capacitor



AVX Corporation has expanded its TPM Series to include D and low profile Y case size multi-anode 'mirror' configuration tantalum capacitors.

Ideal for telecommunication infrastructure, networking, servers, and military and aerospace applications, the TPM mirror tantalum capacitor delivers low self-inductance (ESL) and lower equivalent series resistance (ESR) in a small package. The new symmetrical design reduces the ESL to 1nH, half that of standard D case sized devices.

Low ESL enables a higher resonant frequency up to 500kHz (mirror D case), delivering more efficient filtering in DC/DC power switching converters. The new design also reduces the height of the new tantalum capacitors from 4.3mm (E case) to 3.1mm (D case) with further reductions down to 2.0mm maximum height (Y case).

Common demands from designers of switch mode power supplies, microprocessors, and general digital circuit applications include the downsizing of power supplies combined with the reduction of noise while operating at higher frequencies. This requires components with low equivalent series resistance (ESR), high capacitance and high reliability, such as multi-anode tantalum capacitors.

The mirror anode configuration also enhances thermal power dissipation, enabling a higher ripple current to be achieved using only one capacitor. This allows a reduction in the number of capacitors, providing a downsizing of the power supply without compromising the output current ratings.

Complying with RoHS requirements, TPM capacitors are designed for 3x reflow, 260°C peak temperature lead-free assembly systems, and feature an operating temperature range of between -55°C and +125°C.

[Click here to view the TPM datasheet.](#)

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