

Fused Capacitors Fail Safe

AVX Corporation has developed a family of fused tantalum capacitors that feature an internal fuse to protect against short circuits and damaging high DC leakage currents.

Designated the TAW Series, the tantalum capacitor will remove itself from the circuit and into "fail safe mode" when the internal fuse exceeds the current limit.

The rugged TAW fused tantalum capacitor provides high capacitance values, up to 100µF, high insulating resistance, up to 10MΩ and low equivalent series resistance (ESR). The components are ideally suited to high reliability applications including aerospace, automotive, servers and telecoms infrastructure products.

The TAW Fused Tantalum Capacitors offer protection from possible damaging short circuit failure modes. This is accomplished with an internal fuse using thin film technology that is in series with the capacitor. The AVX fused tantalum offers lower ESR limits than competitive fused tantalum capacitors.

Manufactured using thin film technology, the TAW Series is one of the industry's only tantalum capacitor series to combine high reliability and an ultra-fast response time with short circuit failure mode protection. Unlike conventional devices that incorporate an embedded lead wire fuse, the TAW tantalum capacitor series is lead-free and RoHS compliant.



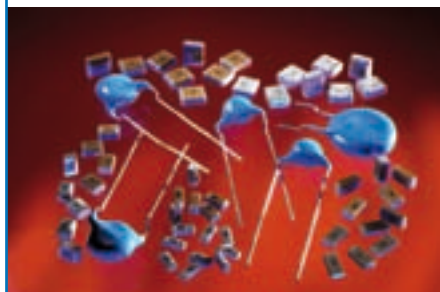
DMTL are franchised distributors for the TAW Series. The components are available in surface mount format and samples are available on request.

Call 01276 33391 or email TAW@DMTL.co.uk Please also visit our website at www.dmtl.co.uk/TAW

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Special Applications Need Powerful Capacitors

DMTL are renowned for their expertise in the field of surface mount passive components so it is not surprising that they offer products from specialist ceramic capacitor manufacturer Holystone. As an introduction to the range, we preview two components specifically designed for high power applications.



The SMD ceramic capacitors in the SCC range have a rated voltage of 240Vrms and their small size and high capacitance means they are ideally suited for X2/Y3 and X1/Y2 safety applications in equipment such as modems, facsimile and other telephony equipment. Used for lightning and surge protection, EMI filtering and isolation the

SCC series meets the electrical requirements of EN132400 for class X1/Y2 and X2/Y3 devices. (See data for specific details)

The HVC range of MLCC products are rated at even higher voltages, 3KVdc and 8KVdc and are designed for use in power applications such as back-light inverters, DC-DC converters, modems and power supplies. The construction of these components is such that special terminations and internal electrode design reduces the instances of cracking and improves voltage ratings. Available in capacitances of 2pF ~2.2µF the HVC range is supplied as a surface mount component which can be wave or flow soldered.

All Holystone products are supported by the application design team at DMTL who can advise on product selection and supply sample products for evaluation.

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