AVX Expands Robust, Commercial-Grade SMD Tantalum Capacitor Series for Long-Life Applications

AVX has expanded its TRM and TRJ 'Professional' Series of SMD tantalum capacitors. Designed for high-end commercial applications requiring an extended product life, the TRM Series and TRJ Series provide ultra-stable parameters, resistance to harsh environments and excellent reliability.

The Professional TRM Series and TRJ Series tantalum capacitors feature low ESR values and reduce DCL (DC leakage current) by 25%. The robust design is capable of withstanding high thermo-mechanical stresses and operating in harsh environments. Once incorporated into devices, they boast high reliability levels, with failure rates of better than 0.5%/1000 hours at 85ºC and full-rated voltage.

"High-end products need to be affordable, reliable and safe, whether they are destined for automotive, medical, aerospace, military or other products that are expected to be durable. Our Tantalum Division focused on extending product life, increasing reliability and providing performance enhancements in our Professional Series, while achieving the right balance between specification and cost. This extension of the TRJ Series and TRM Series high-end commercial tantalum capacitor range offers the right cost/performance proposition for this specific market sector and will be key to their success," said Tomas Zednicek, tantalum division, worldwide technical marketing manager at AVX.

Technical specifications for the TRJ Professional include: voltage range of 6.3V to 50V, with DCL leakage of 0.0075CV. TRJ Professional capacitors are twice as reliable as commercial grade tantalum capacitor products, with mean time between failures (MTBF) of 200,000 hours. They are designed and tested to withstand high current surges and are qualified to AECQ-200 automotive requirements.

The TRM Professional is a multianode type tantalum capacitor with a voltage range of 6.3V - 50V. Devices offer very low ESR and DCL leakage of 0.0075CV. Reliability

is double that of the standard TPM multianode product range at 0.5%/1khrs and MTBF is 200,000 hours. The Acceptable Quality Level (AQL) is 0.10% for the TRM Professional against 0.25% for standard product. The TRM Professional multianode tantalum capacitors are qualified to AECQ-200.

Pricing for the TRM Series and TRJ Series is set at competitive levels with a lead time of 12 weeks.

For more information, contact AVX on the Web at www.avx.com [1].

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