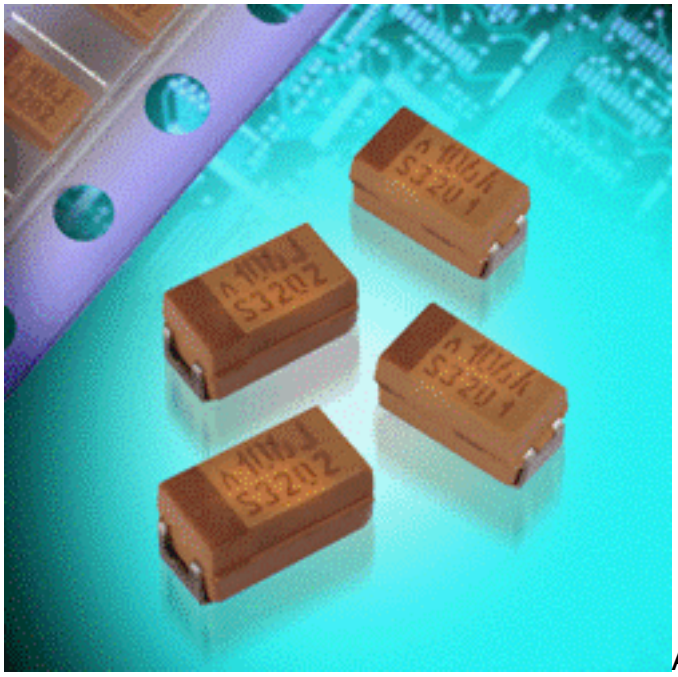
Voltage Rating of Tantalum Polymer Capacitors Doubled



AVX Corporation, a leading manufacturer of passive components and interconnect solutions, has developed the technology needed to manufacture a tantalum polymer capacitor with a voltage rating of 125V, more than twice the rated voltage of similar devices on the market today. This advancement in capacitor technology signifies an industry first, the passing of the 100V plateau. This latest technology breakthrough means the company will be able to manufacture more efficient capacitors, as well as extend the range of devices available to engineers for new consumer product applications.
Limited quantity samples of the TCJ Series 125V version are now available, with volume production available during CY 2012.

AVX developed the technology for these new high voltage tantalum capacitors by optimizing processes that enhance capacitor performance, and working in close co-operation with polymer suppliers. Conductive polymer has been proven to provide low ESR and reduced ignition failure mode. In addition, due to polymer capacitors' surge robustness, they can support a lower derating figure of 20%. Previously, the working voltage of tantalum-polymer capacitors was limited by the dielectric material's maximum achievable breakdown voltage. AVX's new developments in polymer technology address these working voltage limits and are expected to yield even higher-rated products in the future.

"Passing the 100V milestone represents a significant development in high voltage tantalum capacitors. AVX is the recognized market leader in tantalum polymer capacitor development, and our advanced TCJ Series tantalum polymer capacitors have achieved a number of industry firsts, including delivering the highest operating voltage in the industry for a product of its type," remarked Tomas

Zednicek, tantalum division worldwide technical marketing manager at AVX.

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