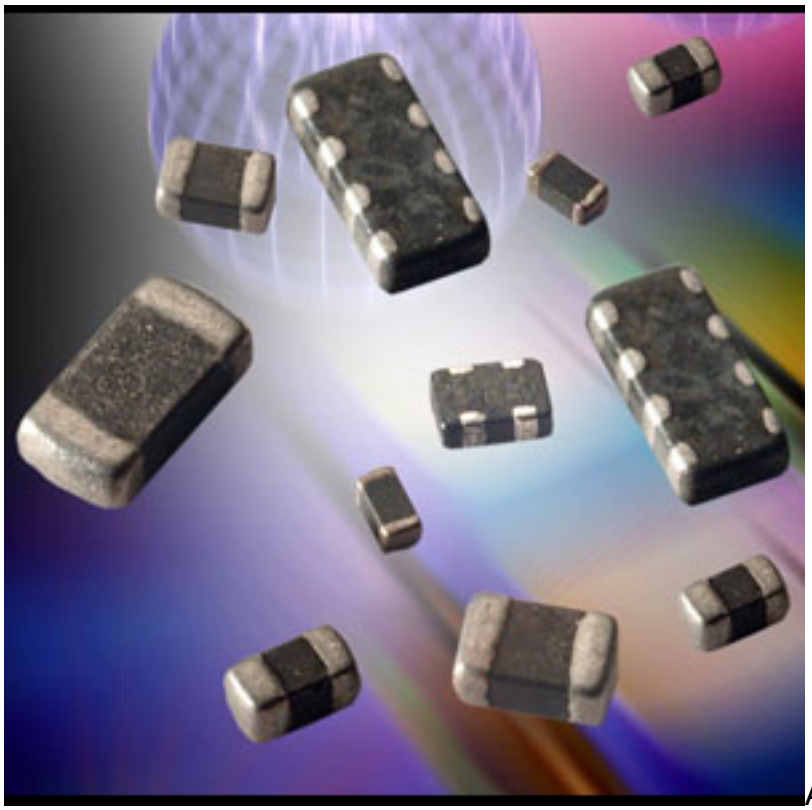
Automotive varistor series delivers jump start & multiple-strike protection for communication systems



AVX Corporation has developed a miniature 0402 varistor specifically for FlexRay Communication BUS Systems used in automotive applications. The AEC-Q200 qualified Flexray Automotive Varistor Series automotive varistors combine ESD protection with EMI/RF filtering and insertion loss characteristics to protect against transients on high-speed data lines up to 10Mbps.

The Flexray Auomotive Series varistors provide protection during jump-start and are capable of withstanding multiple transient strikes while providing sub-1nS response to ESD strikes. A suitable drop-in replacement for diode protection, the compact Flexray Automotive Varistors Series deliver superior transient clamping.

“This Flexray varistor series offers engineers a more robust solution for the faster digital serial bus systems currently being designed into today’s vehicles,” said Mike Muir, North American product manager at AVX. “By accommodating data rates that are up to 10 times faster than current controlled area network (CAN) BUS systems, AVX is leading the way in circuit protection devices for today’s most demanding automotive applications. The 0402 case size also demonstrates AVX’s ability to meet the need for miniaturization in these critical applications.”

The Flexray Automotive Varistor Series has the lowest specified leakage current available on the market. The low profile 0402 varistor features a fast response time

to ESD and can withstand 1000 successive strikes of ESD at 8kV per IEC 61000–4-2.

The Flexray Automotive Varistor Series has a lead time of nine weeks. AVX's Production Part Approval Process (PPAP) is available upon request.

For more information contact AVX at One AVX Boulevard, Fountain Inn, S.C. 29644; by calling 864-288-4523; or on the Web at www.avx.com [1].

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[1] http://www.avx.com