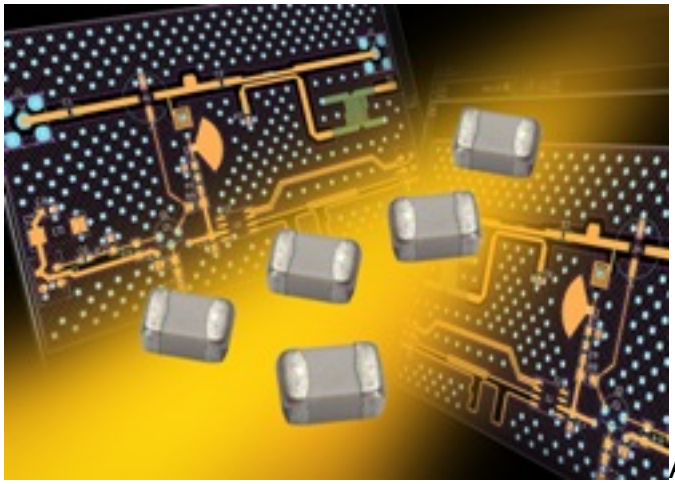
AVX'S UQCF Series Microwave MLCS Exhibit Lower ESR and Higher Q Values



AVX has developed new dielectric and internal electrode materials for its 0805 multilayer capacitor (MLC) chip. These new materials are optimized for high frequency performance and allow for a significantly lower equivalent series resistance than in previous versions of RF capacitors. Designated the UQCF Series, the chips are ideal for RF/microwave applications ranging from 10 MHz to 4.2 GHz.

“The new UQCF Series has a fine-grained, high density, high purity dielectric material to keep out moisture, and includes an electrode system that is ideal for applications with high current carrying capabilities and high quality factors,” said Larry Eisenberger, AVX product manager. “The capacitors also offer low ESR and high series resonance.”

Applications such as microwave RF/IF amplifiers, mixers, oscillators, low noise amplifiers, and filter networks, as well as medical devices such as MRI coils, would all benefit from the UQCF Series’ characteristics, according to Eisenberger.

Available in 0805 sizes with voltages up to 250 VDC, the UQCF Series offers superior stability under the stresses of changing voltage, frequency, time and temperature.

Pricing for the UQCF Series ranges from $0.07 to $0.49 in large quantity. Delivery is stock to eight weeks.
For more information, contact AVX on the Web at www.avx.com [1].

About AVX
AVX Corporation is a leading international supplier of electronic passive components and interconnect solutions with 24 manufacturing and customer support facilities in 15 countries around the world. AVX offers a broad range of devices including capacitors, resistors, filters, timing and circuit protection devices and connectors.

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