AVX'S UQCL Series Capacitors Provide High Current, High Q and Low ESR

AVX has developed a multilayer capacitor (MLC) chip series with new dielectric and internal electrode materials in a 0402 size. These materials allow for a much lower equivalent series resistance than in previous versions of RF capacitors. Designated the UQCL Series, the chips are ideal for RF/microwave applications ranging from 10MHz to 4.2GHz.

“This new series has a fine-grained, high density, high purity dielectric material to keep out moisture, and includes an electrode system that has been optimized for high frequency performance,” said Larry Eisenberger, AVX product manager. “This makes the UQCL Series ideal for applications with high current carrying capabilities and high quality factors. 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 UQCL Series’ characteristics, according to Eisenberger.

Available in 0402 sizes with voltages up to 200VDC, the UQCL Series offers superior stability under the stresses of changing voltage, frequency, time and temperature. Pricing for the UQCL Series ranges from $0.05 to $0.40 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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