Thin Film Microwave/RF Capacitors

AVX Corporation Accu-P&reg Series thin film capacitors, the industry's highest performing RF/microwave capacitors are now available in a 0201 size. The 0201 Accu-P Series features high SRF and low ESR at high frequencies, extremely tight tolerances (&#177 0.02 pF), along with the consistency of all these specifications within a manufacturing lot and on a lot-to-lot basis.

The Accu-P Series meets the increasing demand for smaller, high performance components by the wireless communications market. The 0201 Accu-P devices excel in systems where size is an issue but performance cannot be compromised. If required AVX can also supply a non-standard value within the capacitor's available range of values. This capacitor has been used in a wide range of applications in cellular, PCS and PCN telephones and systems, satellite communications networks, GPS (global positioning system) receivers, test and measurement equipment, filters, VCOs (voltage controlled oscillators) and RF amplifiers.

The 0201 Accu-P Series capacitors feature capacitance values from 6.8 pF down to 0.8 pF with tolerances to &#177 0.02 pF. Rated voltage ranges from 10 VDC to 25 VDC, with a temperature coefficient of 0 &#177 30 ppm/&#176C over the temperature range from -55&#176C to 125&#176C. Additionally, the 0201 Accu-P Series guarantees SRF, ESR and Q values through 2400 Mhz. It is the only microwave capacitor to provide this guaranteed performance for the design engineer. Thin-film technology gives the Accu-P Series the consistency and repeatability of parameters unparalleled in the industry. The capacitor's nickel/solder-coated terminations are compatible with virtually all automated assembly equipment.

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