

High-frequency RF and microwave MLCCs tout high Q factor



Vishay Intertechnology, Inc. introduced a series of surface-mount multilayer ceramic chip capacitors (MLCCs) offering high self-resonance, a high Q factor of ≥ 2000 , and a low dissipation factor of ≤ 0.05 percent for operation in high-frequency commercial applications. With their low dissipation factor, the devices are optimized for filter and matching networks, and amplifier and DC blocking circuits. The MLCCs reduce signal loss and energy consumption in power amplifier modules, VoIP networks, cellular base stations, GPS systems, and satellite, WiFi (802.11), and WiMAX (802.16) wireless communication. Allowing designers to meet the size requirements of their specific applications, the VJ HIFREQ series is offered in 0402, 0603, and 0805 case sizes, with broad working voltages from 25 VDC to 250 VDC, and wide capacitance ranges from 1 pF to 1.5 nF. The devices offer tight tolerances to ± 0.1 pF, an aging rate of 0 percent per decade, and an operating temperature range of $- 55^{\circ}\text{C}$ to $+ 125^{\circ}\text{C}$.

Vishay Intertechnology, Inc.

402-563-6866, www.vishay.com [1]

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