

High Temperature RF Multi-Layer Ceramic Capacitors (MLCC)

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Abstract

Today's high frequency circuits are placing increasing demands on the components they use. Tight tolerance, high quality factor and low ESR are certainly important and expected, but the requirement to operate at higher temperatures is also key. The higher operating temperature is driven by other components in the circuit such as high temperature integrated circuits and the physical location of the circuits. This paper will explore some of the applications, look at the performance characteristics of the high temperature RF capacitor, and consider how the high temperature device offers improved reliability at more mundane operating temperatures.