

This Product Selection Guide contains information to help select products in the Mica and PTFE Capacitors category on DigiKey . Capacitors incorporating mica or PTFE (Teflon®) dielectrics are used in applications that require good parametric stability, low losses, and a relatively high voltage rating. In an electrostatic (non-polarized ...

Our RF mica capacitors feature superior high Q performance without the undesirable properties associated with ceramic and porcelain capacitors. Cornell Dubilier mica capacitors are extensively used in military, aerospace and medical applications, offering both COTS and Military Grade capacitors with established reliability.

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Applications of Mica Capacitors: In tuning and coupling circuits of radio and T.V. systems. In measuring instruments such as standard capacitors. #2 Ceramic Capacitors. In these capacitors, ceramic is used as a dielectric ...

As a dielectric, mica provides capacitors with stable, highly accurate capacitance values. Mica capacitors exhibit low losses, which means they have a high quality factor (Q) and low dissipation factor (DF).

An online tool called the RF Mica Modeler provides an interactive console to assist in selecting the best mica capacitor within a capacitance range of 0.5 to 91,000 pF and voltage range of 100 to 4,000 V, ...

There are two types of mica capacitors: clamped mica capacitors and silver mica capacitors. Clamped mica capacitors are now considered obsolete due to their inferior characteristics. Silver mica capacitors are used instead. They are made by ...

Capacitors with a mica dielectric have significantly higher Q than other capacitors partly because of ESR (equivalent series resistance) that is 10 to 20% lower. Lower ESR also leads to lower losses, less self-heating, and the ability to tolerate higher currents. Mica capacitors are incredibly stable over time, temperature, frequency, and voltage, proving ...

This is because silver mica capacitors have much better characteristics than clamped mica capacitors. Definition - A mica capacitor uses mica as the internal dielectric. Mica capacitors come in two different types: ...

Mica capacitors are the stable, reliable and high precision capacitors. These capacitors are available from low voltages to high voltages. The capacitance values of the mica capacitors ranging from 20 pF to 10 μ F. Mica capacitors are mostly used in the applications where high accuracy and low capacitance change over the time is desired.

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Mica capacitors, particularly the silver mica capacitors, unfurl as indispensable assets within the landscape of electronic circuits, where steadfastness, dependability, and precise capacitance attributes reign supreme. The unique qualities they embody cast them as prime candidates for multifarious applications, ranging from the intricate ...

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