General Specifications for Mica Capacitors

What is a dipped mica capacitor?

Dipped Mica Capacitor: DM05 Series 17Kb SHARMA Mica Capacitorshave been designed to meet the exacting physical, electrical and environmental requirements of the MIL-C-5, R-153 and the current RoHS specifications.

Can mica capacitors withstand high voltages?

Mica capacitors can withstand high voltages,operate at high temperatures and have low leakage current. Because mica capacitors have a very small inductive characteristic and low losses,they are often used in radio frequency (RF) circuits. Silver is used to form mica capacitor plates.

What is the capacitance of a silver mica capacitor?

Silver mica capacitors offer tight tolerances from ±0.05% to ±5%. It is difficult to manufacture silver mica capacitors with large capacitance values,and they run from 0.5 pF to a few nanofarads. Typical capacitance values range from 1 pF to 91,000 pF,while voltage ratings range from 50 V to 2500 V.

What are silver mica capacitors used for?

Silver mica capacitors are used in high-frequency RF tuned circuitssuch as those found in filters,oscillators and power amplifiers. In filters,the tolerances and low losses (high Qs) of silver mica capacitors result in precise and predictable tuned-circuit performance.

What metal is used to make mica capacitors?

Silveris used to form mica capacitor plates. Other metals,like copper and aluminum,have been used,but do not perform as well. Silver mica capacitors offer tight tolerances from ±0.05% to ±5%. It is difficult to manufacture silver mica capacitors with large capacitance values,and they run from 0.5 pF to a few nanofarads.

What is a good replacement for silver mica capacitors?

In low power RF applications,a good replacement for silver mica capacitors is ceramic capacitors. If small capacitance tolerances,low losses and a low temperature coefficient are needed,Class I ceramic capacitors can be used. These ceramic capacitors have characteristics like silver mica capacitors,but at a fraction of the price.

CDE"s standard dipped silvered mica capacitors are the first choice for timing and close tolerance applications. These standard types are widely available through distribution. Order by complete part number as below. For other options, write your requirements on your purchase order or request for quotation. CD15 C D. Standard Cap. Range.

RS Pro Silvered Mica Capacitors are designed and manufactured to the highest standards. Intended for

applications in professional and military equipment, these quality components are available in standard ranges in resin moulded and resin dipped formats.

Mica capacitors can withstand high voltages, operate at high temperatures and have low leakage current. Because mica capacitors have a very small inductive characteristic and low losses, they are often used in radio frequency (RF) circuits. Silver is used to form mica capacitor plates.

General specifications Capacitance: 20 pF to 10 µF Voltage Range: (operating) 1,000 to ...

Capacitors are used in circuits that need bypass capacitors, devices that provide a low-impedance path to ground to filter unwanted signals. General Purpose General-purpose capacitors can be used for many applications. High Current Capacitors are used in high-current applications. High Voltage Capacitor

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polypropylene film/foil capacitors, CDE mica caps are the choice for snubber and resonant ...

SHARMA Mica Capacitors have been designed to meet the exacting physical, electrical and environmental requirements of the MIL-C-5, R-153 and the current RoHS specifications. Careful selection of raw materials, starting with the finest grade of Ruby Mica, and the constant monitoring of all equipment and processes, provides an overall uniform ...

High-Voltage Types, Specifications, Mica Capacitors Specifications Capacitance is within tolerance when measured at these frequen-cies: 1-1000 pF @ 1 MHz > 1000 pF @ 1 kHz Dissipation Factor is typically less than 0.05% when measured as above. Dissipation factor (DF) equals 2?fRC, where f is the test frequency, R is the equivalent series resistance (?), and C ...

SHARMA Mica Capacitors have been designed to meet the exacting physical, electrical and ...

Mica Capacitors including: circuit stability over full equipment life, small size, high insulation resistance, low value through to high value capacitance, low capacitance change with temperature, high Q, and high resistance to radiation (gamma rays in atomic plants) for aircraft and missile equipment. They have been designed for the following applications: logic and ...

GENERAL SPECIFICATIONS FOR SAHA MICA CAPACITORS The SAHA Mica capacitors meet the required commercial specifications and the EIA requirements. The CMO series capacitors also meet the military specifications MIL-C-5. The actual specifications and dimensions of the capacitors are mentioned under each series in the catalog. CAPACITANCE The ...

General Specifications for Mica Capacitors

Tantalum capacitors are like electrolytic capacitors in that it has a metal plate as one of their electrodes, but instead of an oxide layer, the dielectric material is tantalum pentoxide. These capacitors are used where high capacitance and stability are important. Due to their high capacitance, tantalum capacitors can be found in power supplies and audio equipment.

Military Applications: Type CMR dipped mica capacitors meet the requirements of MIL-PRF-39001 o Burn-in and testing per established military reliability requirements for high-grade ground-based and airborne

Polyester film capacitors are general-purpose, low-cost film capacitors with the main advantage of excellent stability at higher temperatures (up to 125 °C). These are also known as the green capacitor type widely used ...

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