

What are film capacitors?

The "film capacitors" were developed together with the growing market of broadcast and electronic equipment technology in the mid-20th century. These capacitors are standardized under the rules of IEC/EN 60384-1 "Capacitors for use in electronic equipment" and different "film materials" have their own sub standards, the IEC/EN 60384- n series.

What is a film/foil capacitor?

Film/foil capacitors or metal foil capacitors are made with two plastic films as the dielectric. Each is layered with a thin metal foil, usually aluminum, as the electrodes. Advantages of this construction type are easy electrical connection to the metal foil electrodes, and its ability to handle high current surges.

What is the dissipation factor of film/foil capacitors?

The dissipation factor for film/foil capacitors is lower than for metallized film capacitors, due to lower contact resistance to the foil electrode compared to the metallized film electrode. The dissipation factor of film capacitors is frequency-, temperature- and time-dependent.

What is a heavy-duty film capacitor?

Especially for applications with high current pulse loads or high AC loads in electrical systems, heavy-duty film capacitors, here called "power capacitors", are available with dielectric ratings of several kilovolts. But the manufacture of film capacitors does have a critical dependency on the materials supply chain.

What is the capacitance of a plastic film capacitor?

The film/foil variants of plastic film capacitors are especially capable of handling high and very high current surges. Typical capacitance values of smaller film capacitors used in electronics start around 100 picofarads and extend upwards to microfarads.

Why is a film capacitor a good choice?

The inherent geometry of film capacitor structure results in very low ohmic losses and a very low parasitic inductance, which makes them especially suitable for applications with very high surge currents (snubbers) and for AC power applications, or for applications at higher frequencies.

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What is a Film Capacitor? Plastic film capacitors, or, metal-film capacitors, have found wide application in electronic devices. Thin plastic film serves as a dielectric layer between two conducting plates in this type of capacitor. Common dielectrics are based on polypropylene (PP), polyester (PET or PEN) and polycarbonate (PC).

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