

Model and specification of polyester capacitors

What is a polyester capacitor?

Polyester capacitors are capacitors composed of metal plates with polyester film between them, or a metallised film is deposited on the insulator. Polyester capacitors are available in the range 1nF to 15µF, and with working voltages from 50V to 1500V. They come with the tolerance ranges of 5%, 10%, and 20%.

What is the temperature coefficient of a polyester capacitor?

The temperature coefficient of the material is positive. Polyester capacitors are regarded as "general purpose capacitors". They provide the best volume efficiency of all film capacitors at moderate cost and are preferably used for DC applications such as decoupling, blocking, bypassing and noise suppressions.

What is the tolerance range of polyester capacitors?

The tolerance ranges of the polyester capacitors are 5%, 10% & 20% and the polyester capacitor temperature coefficient is high. The isolation resistance of these capacitors is high, so these are the best choices for storage or coupling applications. These capacitors are extremely heat resistant so they can work close to 150 °C temperatures.

What type of dielectric material is used in a capacitor?

This is that depends on the type of dielectric material. The commonly used capacitors are Polyester & Polypropylene. The polyester capacitor is also called polyester film and the dielectric material used in this is made with a polymer known as PET or polyethylene terephthalate.

Are polyester capacitors suitable for high current & frequency applications?

These capacitors have excellent self-healing properties & are comparatively economical. A polyester capacitor with a high temperature will dissipate huge power, so this feature will make the capacitor inappropriate for the applications of high current & frequency.

Are polyester capacitors heat resistant?

These capacitors are extremely heat resistant so they can work close to 150 °C temperatures. The polyester capacitor symbol is shown below. As compared to other types, the capacitance of polyester capacitors has high for each unit volume that means high capacitance can fit into a small capacitor.

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Polyester Capacitors	Order code	Manufacturer code	Description
10-3240	R82EC1100AA50K	1NF 100V	5MM POLYESTER BOX CAPACITOR RC
10-3242	R82EC1500AA50K	1N5 100V	5MM POLYESTER BOX CAPACITOR RC
10-3244	R82EC1220AA50K	2N2 100V	5MM POLYESTER BOX CAPACITOR RC
10-3246	R82EC1330AA50K	3N3 100V	5MM POLYESTER BOX ...

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Capacitors have several key specifications that define their performance and suitability for various applications. ... Common dielectric materials include ceramic, aluminum ...

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These types of capacitors such as Mica or Polyester are generally referred to as Class 1 capacitors. Most capacitors, especially electrolytic"s lose their capacitance when they get ...

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