

What are ceramic capacitors used for?

Ceramic capacitors are available for well-defined frequency ranges with a defined temperature coefficient (Class 1 capacitors) or for smoothing and suppressing of noise frequencies (class-2 capacitors), e.g. used in power supplies. Multilayer ceramic chip capacitors (MLCC) are the most widely used capacitors in electronics.

What are aluminium electrolytic capacitors?

Aluminium electrolytic capacitors offer very high capacitance values per unit volume over a wide range of rated voltages. They are based on aluminium films whose surface has been enlarged by an etching process.

What is a capacitor used for?

Capacitors play a key role in almost all electrical and electronic equipment and electrotechnical installations. These versatile components store electric charges and smooth or buffer currents and voltages. They are used to filter and suppress HF interference as well as to decouple signals in telecommunications applications.

What is the capacitance of an electrolytic capacitor?

Depending on the technology and applications, capacitors are manufactured for voltages from a few to over 10 000 volts. Their capacitance values extend from picofarads to the lower farad range. Aluminium electrolytic capacitors offer very high capacitance values per unit volume over a wide range of rated voltages.

What are Tantalum capacitors used for?

Tantalum Capacitors are used in various electronic applications for buffering and filtering which are having a focus on high reliability, long life time, high environmental temperatures or smaller size, as automotive electronic or power supplies, mobile phones, 3G/4G modems, laptop PCs or medical equipment, to name just a few.

What is a single section capacitor?

Single section capacitors are normally used for products with an AC rating up to 300 Vac. Series constructions are used for higher voltages. The end connection of the capacitor cell to the outside circuit is realized by metal sprayed end connections wherein lead wires or tabs are welded.

PM94X Capacitor: Self-healing, low inductance, thermoplastic case, epoxy sealed, surface mount, DIL leads. Ideal for HF switch mode power supplies.

High voltage capacitors (up to 50 kV) High temperature capacitors (up to 250°C) Precision capacitors (up to ±0.1%) High stability capacitors (- 20 + 30 ppm/°C) High frequency capacitors ( up to several GHz). The majority of these capacitors are manufactured to comply to specifications NF-C-83120; MIL-C-5 and MIL-PRF-39001 standards.

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1 MD - XL : Some manufacturers may offer Single Layer- Self Healing Double Metallised Paper designed capacitors with 0.2 Watt to 0.5 Watt/ KVA<sub>r</sub> losses. 2 Double Dielectric / Heavy Duty : Some manufacturers may offer Single Layer - Self Healing MPP designed capacitors with 0.5 Watt / KVA<sub>r</sub> losses. 3 All PP / FILM+FOIL : Some manufacturers may offer

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Film/foil capacitors, electrical double-layer capacitors (EDLC), and ceramic capacitors do not have self-healing properties. Self-healing of metallized film capacitors In a metallized film capacitor, a plastic film is coated ...

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