

Film capacitors

Compact X1 series with extended voltage range

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TDK Corporation presents a new series of EPCOS X1 capacitors designed for an extended operating voltage of up to 530 V AC. The new capacitors are ideally suited for EMI suppression in X1 circuits (L-N). The types in the B32911* through B32918* series cover a broad capacitance range from 1 nF to 5.6 μ F. In addition, they feature a compact design: Their dimensions range from 4.0 mm x 9.0 mm x 13.0 mm to 35 mm x 50 mm x 57.5 mm, depending on the capacitance, with lead spacings of between 10 mm and 52.5 mm. The types with capacitance values of 4.7 μ F and 5.6 μ F are equipped with 4 pins for improved mechanical stability on the PCB.

The permissible operating temperature range is from -40 °C to +110 °C. Like all EPCOS MKP capacitors, the new types also feature high rated voltages and excellent self-healing properties. The series is certified according to ENEC, UL and CSA. Typical applications include power supplies of all kinds and frequency converters.

Main applications

- Power supplies of all kinds and frequency converters

Main features and benefits

- Increased operating voltage up to 530 V AC
- Broad capacitance range from 1 nF to 5.6 μ F
- Compact dimensions
- Improved mechanical stability due to 4-pin design (for 4.7 μ F and 5.6 μ F versions)

About TDK Corporation

TDK Corporation is a leading electronics company based in Tokyo, Japan. It was established in 1935 to commercialize ferrite, a key material in electronic and magnetic products. TDK's portfolio includes electronic components, modules and systems* marketed under the product brands TDK and EPCOS, power supplies, magnetic application products as well as energy devices, flash memory application devices, and others. TDK focuses on demanding markets in the areas of information and communication technology and consumer, automotive and industrial electronics. The company has a network of design and manufacturing locations and sales offices in Asia, Europe, and in North and South America. In fiscal 2014, TDK posted total sales of USD 9.6 billion and employed about 83,000 people worldwide.

* The product portfolio includes ceramic, aluminum electrolytic and film capacitors, ferrites, inductors, high-frequency components such as surface acoustic wave (SAW) filter products and modules, piezo and protection components, and sensors.

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