

Film capacitors

Robust DC link capacitors

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TDK Corporation has extended its portfolio of EPCOS film capacitors for DC link applications with the robust new B3277*M series. The new types are suitable for extreme environmental conditions – a fact that has been proven by means of a THB test (temperature, humidity, bias) at 85 °C, 85 percent relative humidity with a rated voltage applied for 1000 hours.

The capacitors of the new series are designed for rated voltages of between 450 V DC and 1600 V DC and offer capacitance values of between 0.33 µF and 120 µF. The maximum operating temperature of these RoHS-compatible components is 105 °C. Depending on the voltage and capacitance, the lead spacings are 27.5 mm, 37.5 mm and 52.5 mm, and a 2-pin or 4-pin version is available for each lead spacing. The service life of the self-healing capacitors is 50,000 hours at the rated voltage and an operating temperature of 85 °C.

Typical applications include DC links of converters for photovoltaic plants, as well as frequency converters and power supplies for industrial applications. The series is qualified in accordance with AEC-Q200.

Main applications

- DC links of converters for photovoltaic plants
- Frequency converters and power supplies for industrial electronics applications

Main features and benefits

- Successful completion of THB tests at 85 °C, 85 percent relative humidity and an applied rated voltage for 1000 hours.
- Wide voltage range from 450 V DC to 1600 V DC
- Wide capacitance range from 0.33 µF to 120 µF
- RoHS-compatible
- Qualified in accordance with AEC-Q200

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 comprehensive portfolio features passive components such as ceramic, aluminum electrolytic and film capacitors, as well as magnetics, high-frequency, and piezo and protection devices. The product spectrum also includes sensors and sensor systems such as temperature and pressure, magnetic, and MEMS sensors. In addition, TDK provides power supplies and energy devices, magnetic heads and more. These products are marketed under the product brands TDK, EPCOS, InvenSense, Micronas, Tronics and TDK-Lambda. TDK focuses on demanding markets in the areas of information and communication technology and automotive, industrial and consumer 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 2019, TDK posted total sales of USD 12.5 billion and employed about 105,000 people worldwide.

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