

Film capacitors

Range of rugged DC link capacitors extended

May 15, 2018

TDK Corporation (TSE:6762) has extended its range of EPCOS film capacitors for DC link applications. The B3277*H series now provides types for particularly harsh environmental conditions. The robustness has been verified in a temperature, humidity, bias (THB) test at 60 °C, 95 percent relative humidity, and the rated voltage for 1000 hours. Special types are also available that are THB tested at 85 °C, 85 percent relative humidity, and the rated voltage for 1000 hours.

The capacitors are designed for rated voltages of between 450 V DC and 1100 V DC and offer capacitance values of between 1.5 µF and 120 µF. The maximum operating temperature of the RoHS-compatible components is 105 °C. Depending on voltage and capacitance, the lead spacing is 27.5 mm, 37.5 mm, or 52.5 mm. The types with the latter grid size are offered exclusively in a 4-pin version. At the rated voltage and an operating temperature of 85 °C the service life of the self-healing capacitors is 50,000 hours.

Applications include the DC link circuits of converters for photovoltaic systems, frequency converters and power supplies for industrial applications. AEC-Q200 qualified capacitors are also available on request.

Main applications

- DC link circuits of converters for photovoltaic systems, frequency converters and power supplies for industrial applications.

Main features and benefits

- Suitable for use in particularly harsh environmental conditions
- Wide range of rated voltages from 450 V DC to 1100 V DC
- Broad capacitance range from 1.5 nF to 120 µF

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 2018, TDK posted total sales of USD 12 billion and employed about 103,000 people worldwide.

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