Film capacitors
Compact form factors for DC link applications

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TDK Corporation (TSE:6762) has extended the portfolio of EPCOS film capacitors for DC link applications with the B3277*X/Y/Z series. The new capacitors feature compact dimensions, high capacitance density and high current capability. They are designed for rated voltages of between 500 and 1200 V DC. The series offers numerous standard capacitance values within the range from 1.5 to 170 µF.

Depending on the voltage and capacitance, their lead spacings are 27.5, 37.5 and 52.5 mm, with both 4-pin or 2-pin versions available for each lead spacing. The maximum operating temperature of these RoHS-compatible components is 105 °C. At a rated voltage and an operating temperature of 85 °C the typical service life of the self-healing capacitors is 60,000 hours.

The MKP capacitors are suitable for use in DC link circuits, as DC filters and for power factor correction for industrial converters, as well as for power supplies with higher reliability requirements. These applications include X-ray equipment, LED street lighting, induction hobs and electrical chargers.

Main applications

- DC link circuits, DC filters and power factor correction for industrial converters
- Power supplies with higher reliability requirements

Main features and benefits

- Broad capacitance range from 1.5 to 170 µF
- High current capability of up to 36.5 A
- Compact dimensions

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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Further information on the products can be found under www.tdk-electronics.tdk.com/en/film_mkp.
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