

## Film capacitors

### Compact and robust AC filter capacitors

June 5, 2018

TDK Corporation (TSE:6762) presents a new series of EPCOS MKP AC capacitors for filter applications. The components of the B33331V\* series are designed for a rated voltage of 460 V<sub>RMS</sub>, corresponding to a peak voltage of 650 V, and cover a capacitance range from 2 µF to 50 µF. Both the cans and the tops are constructed of aluminum, making the overall design particularly robust. Despite this, the dimensions – depending on the type – range from just 30 mm x 55 mm to 50 mm x 100 mm (D x H).

The reliability of the new capacitors, even under harsh conditions, has been verified by a temperature, humidity, bias (THB) test at 85 °C, 85 percent relative humidity and an applied rated voltage for 1000 hours. In compliance with IEC 61071, the life expectancy is at least 100,000 hours. The capacitors bear the CE symbol, types with a can diameter of >40 mm are UL-approved, and the insulation of the connections conforms to UL 94 V0. In the event of excessive pressure in the capacitor case due to an overload, the integrated overpressure disconnection safety device isolates both terminals from the winding.

The new capacitors can be used, for example, as output filters of photovoltaic inverters, frequency converters and uninterruptible power supplies.

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#### Main applications

- Output filters of photovoltaic inverters, frequency converters and uninterruptible power supplies.
- General filtering applications

#### Main features and benefits

- Robust design thanks to aluminum can and top
- Compact dimensions
- Integrated overpressure disconnection safety device

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## 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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