

Film capacitors

Robust MKP types for AC applications

August 31, 2017

TDK Corporation presents a series of robust EPCOS MKP film capacitors (B3275*) that are optimized for use with AC voltages with high ripple currents. The new types are available for rated voltages of 250 V_{RMS}, 275 V_{RMS} and 310 V_{RMS} and cover a capacitance range from 1 µF to 70 µF. One particular feature is their extreme robustness: The capacitors pass a THB test (temperature, humidity, bias) at 60 °C, 95 percent relative humidity and a rated voltage applied for 1000 hours.

The B3275* MKP film capacitors are designed for a maximum operating temperature of 105 °C: Both their case and the epoxy resin sealing comply with UL 94 V-0. Depending on capacitance and voltage class, the lead spacings are 27.5 mm, 37.5 mm or 52.5 mm, with 4-pin versions offered for the two larger lead spacings. The capacitors feature a long expected lifetime of more than 60,000 hours at a temperature of 70 °C and 90 percent of the rated voltage. Typical applications for the new EPCOS MKP film capacitors are the output filters of frequency converters, uninterruptible power supplies and variable-speed drives.

Main applications

- Output filters of converters
- Uninterruptible power supplies
- Controlled drives

Main features and benefits

- Extreme robustness, verified in a THB test at 60 °C, 95 percent relative humidity and a rated voltage applied for 1000 hours
- Long expected lifetime of more than 60,000 hours at a temperature of 70 °C and 90 percent of the rated voltage

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 passive components, such as ceramic, aluminum electrolytic and film capacitors, ferrites and inductors, high-frequency products, and piezo and protection components, as well as sensors and sensor systems and power supplies. These products are marketed under the product brands TDK, EPCOS, InvenSense, Micronas, Tronics and TDK-Lambda. TDK's further main product groups include magnetic application products, energy devices, and flash memory application devices. 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 2017, TDK posted total sales of USD 10.5 billion and employed about 100,000 people worldwide.

You can download this text and associated images from www.epcos.com/pressreleases.

Further information on the products can be found under www.epcos.com/film_mkp.

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