

Film capacitors

TDK offers robust X2 capacitors for high-temperature requirements

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TDK Corporation (TSE:6762) presents a new series of EPCOS MKP-X2 capacitors for interference suppression. In contrast to conventional models, which are designed for a maximum operating temperature of 110 °C, the new capacitors offer a maximum permissible operating temperature of 125 °C. The capacitance range of the B3292*P series ranges from 0.033 µF to 5.6 µF, and the maximum rated voltage is 305 V AC. Even under harsh environmental conditions, the capacitors offer a stable capacitance value, verified by the thermal humidity bias test with basic conditions of 85 °C, 85% relative humidity and an operating voltage of 240 V AC, for a duration of 500 hours. They are certified according to IEC 60384-14:2013/AMD1:2016 and approved according to AEC-Q200.

The capacitors are approved according to UL and EN and, depending on capacitance, are available in lead spacing of 15 mm, 22.5 mm and 27.5 mm. The housing, such as potting material, corresponds to UL94 V-0.

The typical fields of application of the new X2 capacitors include interference suppression in filters under harsh environmental conditions and at high operating temperatures, such as in automotive applications.

Main fields of application

- Interference suppression at high operating temperatures, such as automotive applications

Main features and benefits

- Increased operating temperature of 125 °C
- Wide capacitance range from 0.033 µF to 5.6 µF
- UL and EN approval, qualification according to AEC-Q200

About TDK Corporation

TDK Corporation is a world leader in electronic solutions for the smart society based in Tokyo, Japan. Built on a foundation of material sciences mastery, TDK welcomes societal transformation by resolutely remaining at the forefront of technological evolution and deliberately “Attracting Tomorrow.” It was established in 1935 to commercialize ferrite, a key material in electronic and magnetic products. TDK’s comprehensive, innovation-driven 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 automotive, industrial and consumer electronics, and information and communication technology. The company has a network of design and manufacturing locations and sales offices in Asia, Europe, and in North and South America. In fiscal 2020, TDK posted total sales of USD 12.5 billion and employed about 107,000 people worldwide.

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