

Film capacitors

Robust Y2 capacitors with an increased rated voltage

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TDK Corporation (TSE:6762) presents a new series of EPCOS MKP Y2 capacitors for EMI suppression. In contrast to conventional types that are designed for rated voltages of 300 V AC, these new capacitors offer a permissible rated voltage of 350 V AC. The capacitances of the B3203* series range from 4.7 nF to 1.2 μ F. Even under harsh environmental conditions, the capacitors offer a stable capacitance value. They are certified according to IEC 60384-14:2013/AMD1:2016 and classified in accordance with "Grade III high robustness under high humidity Test B". This is verified by a temperature, humidity, bias (THB) test at 85 °C, 85 % relative humidity and 350 V AC operating voltage, at which a capacitance drop of no more than 10 percent may occur. The maximum operating temperature is 110 °C.

The capacitors are approved in accordance with UL and EN and qualified to AEC-Q200. Depending on their capacitance, they are available with a lead spacing of 15 mm (B32032*), 22.5 mm (B32033*), 27.5 mm (B32034*), or 37.5 mm (B32036*). The case and the epoxy resin sealing comply with UL94 V-0.

The possible applications of the new Y2 capacitors include EMI suppression in filters that are subjected to harsh environment conditions and demand higher rated voltages, such as those in photovoltaic inverters or automotive applications.

Main applications

- EMI suppression under harsh environment conditions, such as those in photovoltaic inverters or automotive applications

Main features and benefits

- Increased rated voltage of 350 V AC
- Broad capacitance range from 4.7 nF to 1.2 μ F
- UL and EN approval

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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