

EMC components

Current-compensated ring core chokes for 800 V DC

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TDK Corporation (TSE:6762) presents a new series of EPCOS current-compensated ring core power line double chokes. The RoHS-compatible B82724J8*N040 series features a high rated voltage of 800 V DC or 250 V AC in continuous operation and was developed specifically for use as DC link chokes in frequency converters. A further advantage of the new series is its outstanding thermal behavior in comparison with conventional types, which means that chokes with high inductance values can be operated with high currents, even at a high operating temperature.

The new chokes offer a range of inductance values extending from 0.5 mH to 47 mH and rated currents of between 1.6 A and 10 A, depending on the inductance. Their rated ambient temperature without derating is +70 °C. For the additional attenuation of symmetrical interferences the power line chokes feature a stray inductance of around 0.5 percent of the rated value. The dimensions for all types are 18.5 mm x 31.3 mm x 33.2 mm, just like the standard B82724J* series. This means that the new chokes can be designed into existing layouts.

The new ring core chokes are manufactured using a flame retardant plastic that is compliant with UL 94 V-0 and certified in accordance with IEC 60335-1, Clause 30 (glow-wire and ball pressure test). In addition, the winding is completely potted, which allows its use in highly polluted environments. Typical applications include frequency converters and power supplies.

Main applications

- Frequency converters and power supplies

Main features and benefits

- High rated voltage of 800 V DC for use as DC link chokes
- High inductance values and high rated currents at a high operating temperature

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