

Inductors

TDK offers compact, current-compensated ring core chokes

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TDK Corporation (TSE:6762) presents a new series of current-compensated EPCOS double-ring core chokes for the suppression of common-mode interferences. These chokes are available in three sizes with current handling capacities between 10 A and 17 A, and with a rated voltage of 250 V AC (50/60 Hz). Depending on the type, the inductance value is between 1.0 mH and 6.25 mH. The plastic material of the base plate and spacer in the middle of the ring core conforms with UL 94 V-0, and the highest CTI value of >600. In order to meet the high requirements for specific applications in domestic appliances, in accordance with IEC 60335-2-xx, the plastic meets specifications for GWIT (+775 °C), GWFI (850 °C) and Ball Pressure (+190 °C), as well as CTI >250. These high requirements are increasingly found in industrial applications, such as drives.

These EMC components offer extremely small dimensions in relation to the current capacity with dimensions of between 33 x 23 x 30 mm and 39 x 23 x 37 mm. Due to the leakage inductance of around 0.4%, the RoHS-compatible ring core chokes also suppress symmetrical interferences. The main areas of application are switch-mode power supplies, converters and domestic appliances.

Main fields of application

- Switch-mode power supplies, converters and domestic appliances

Main features and benefits

- Higher insulation requirements according to IEC EN 60335-1/2 standards
- Current handling capacity of 10 A to 17 A at 250 V AC
- Compact dimensions of 33 x 23 x 30 mm to 39 x 23 x 37 mm
- Suppression of symmetrical interferences due to leakage inductance of 0.4%

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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You can find more information about the products at https://www.tdk-electronics.tdk.com/en/power_chokes.

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