

EMC components

Current-compensated ring-core chokes for home appliances

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TDK Corporation presents a new series of EPCOS ring-core double chokes. The new B82721K2*U* series of RoHS-compatible power line chokes have been developed in particular for use in home appliances such as washing machines and dishwashers, refrigerators and heating control units. The plastic used (flame-retardant, compliant with UL 94 V-0) with a CTI value of 600 is certified in accordance with IEC 60335-1, clause 30 (glow-wire and ball pressure test) and the complete encapsulation of the winding allows it to be used in environments with the highest degree of pollution.

These chokes are designed for a rated voltage of 250 V AC and the range of inductance values extends from 0.4 mH to 47 mH. Depending on the inductance, their rated currents range from 0.4 A to 2.8 A, while the rated ambient temperature is +70 °C. The dimensions for all versions are 13.2 mm x 18.2 mm x 20 mm.

The components have been certified by UL and VDE according to corresponding component standards (UL 1283, IEC 60938-2).

Main applications

- Power supplies, home appliances and heating control units

Main features and benefits

- Compatibility with applications in accordance with IEC 60335-2 with CTI >250 and degree of pollution 3
- High rated current and rated 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 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.

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