

Inductors

TDK expands its range of coupled inductors

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TDK Corporation (TSE:6762) has extended its range of coupled inductors to include the new EPCOS series B82472D6*. The nine series types cover an inductance range of 2 x 2.2 μH to 2 x 47 μH and are designed for maximum rated currents of 1.1 A to 4.3 A. The RoHS-compliant chokes are certified in line with AEC-Q200 and feature high saturation currents of up to 7.95 A. The magnetically shielded inductors have dimensions of just 7.3 x 7.3 x 4.8 mm and are designed for a wide temperature range of between -55 °C and +150 °C. Depending on the type, the chokes offer very high coupling factors of the two windings, from 97 to 99 percent.

These compact, robust components are useful in a wide range of applications, are ideal in various galvanically non-insulated DC/DC converter topologies such as SEPIC, Cuk and Zeta, and act as transformers in flyback and multi-output buck topologies. In the latter, coupled inductors provide a second output voltage. Furthermore, the components can act as common-mode chokes in power supply lines. The insulation voltage between the two windings is >500 V.

Main applications

- DC/DC converters such as SEPIC, Cuk or Zeta
- Flyback converters
- Multi-output buck converters
- Common-mode chokes in power supply lines

Main features and benefits

- High saturation currents of up to 7.95 A
- Small dimensions of just 7.3 x 7.3 x 4.8 mm
- Wide temperature range from -55 °C to +150 °C
- High coupling factor of up to 99 percent

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 2021, TDK posted total sales of USD 13.3 billion and employed about 129,000 people worldwide.

You can download this text and associated images from www.tdk-electronics.tdk.com/en/210728.

Further information on the products can be found under http://www.tdk-electronics.tdk.com/power_inductors.

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