

Inductors

SMT high-current chokes with a compact design

December 8, 2016

TDK Corporation has extended its portfolio of EPCOS ERU SMT power inductors with the ERU16 choke series that comprises ten different types. The inductance values of the new B82559*A016 series extend from 1.0 μH to 30 μH and their saturation currents range from 9.2 A DC to 37 A DC. The outstanding feature of these new power inductors is their compact design: With a footprint of just 17.3 mm x 18.7 mm, they have low insertion heights of 7.55 mm (1.0 μH) to 10.95 mm (30 μH), depending on the type. This low-profile design is based on a flat rectangular helical winding technology which results in lower losses. The DC resistances are between 1.05 m Ω and 15.35 m Ω . With the new ERU16 types TDK is expanding its broad spectrum of ERU SMT power inductors, which include the existing ERU13, ERU19, ERU20 and ERU25 series.

The new series of high-current chokes is designed for operating temperatures of between -40 °C and +150 °C. Its additional third soldering pad results in high mechanical stability on the PCB. They can be used as output and storage chokes in a wide variety of power supply topologies. These include point-of-load (POL) converters, DC-DC converters, high-current switch-mode power supplies, solar converters and xEV applications. The components of the new series are RoHS-compatible and qualified to AEC-Q200.

Main applications

- Output and storage chokes for point-of-load (POL) converters, DC-DC converters, high-current switch-mode power supplies, solar converters and xEV applications

Main features and benefits

- Compact dimensions thanks to flat rectangular helical winding
- High saturation currents of up to 37 A DC
- Low losses

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 electronic components, modules and systems* marketed under the product brands TDK and EPCOS, power supplies, magnetic application products as well as energy devices, flash memory application devices, and others. TDK focuses on demanding markets in the areas of information and communication technology and consumer, automotive and industrial 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 2016, TDK posted total sales of USD 10.2 billion and employed about 92,000 people worldwide.

* The product portfolio includes ceramic, aluminum electrolytic and film capacitors, ferrites, inductors, high-frequency components such as surface acoustic wave (SAW) filter products and modules, piezo and protection components, and sensors.

You can download this text and associated images from www.epcos.com/pressreleases.

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

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