

Inductors

Compact storage chokes for high currents

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TDK-EPC, a group company of TDK Corporation, has extended the range of its standard ERU series of power inductors with the EPCOS ERU 20 series. These new components are characterized by a particularly high current capability. At inductance values of between 1.0 and 35.0 μH , the ERU 20 chokes possess a current capability of between 9.3 and 50.0 A. Their DC resistance values range between 0.62 and 7.0 $\text{m}\Omega$.

As a result these ERU inductors are particularly suitable for use in high-current low-voltage DC-DC converters, point-of-load converters (POL) and multiphase modules. Their design is based on optimized ferrite cores and flat-wire winding technology. Their low core losses and self-supporting winding permit an excellent energy storage density as well as very compact dimensions. Thus, the ERU 20 inductors have a footprint of only 21 x 21.5 mm^2 and an insertion height of between 9.8 and 14.2 mm, depending on the type. The components are RoHS-compatible and can also be manufactured in customer-specific versions.

Possible applications are the power supplies of telecommunications and IT systems as well as inverters for photovoltaic systems.

Main applications

- Power supplies of telecommunications and IT systems as well as photovoltaic systems.

Main features and benefits

- High current capabilities of up to 50 A.
- Low DC resistance down to 0.62 $\text{m}\Omega$.
- RoHS-compatible.

Key data

Ordering code	L_R [μH]	I_{sat} [A]	R_{DC} [$\text{m}\Omega$]
B82559A0353A020	35.0	9.3	7.0
B82559A0293A020	29.0	11.0	7.0
B82559A0203A020	20.0	13.9	6.4
B82559A9153A020	15.0	15.3	4.9
B82559A7103A020	10.0	18.3	3.9
B82559A5682A020	6.8	19.0	2.9
B82559A4472A020	4.7	22.0	2.6
B82559A5332A020	3.3	34.0	1.5
B82559A4222A020	2.2	43.0	1.2
B82559A3152A020	1.5	50.0	0.90
B82559A2102A020	1.0	50.0	0.62

About TDK-EPC Corporation

TDK-EPC Corporation (TDK-EPC), a TDK group company, is a leading manufacturer of electronic components, modules and systems headquartered in Tokyo, Japan. TDK-EPC has emerged from the combination of the electronic components business of TDK and the EPCOS Group and markets its products under the product brands, TDK and EPCOS.

The product portfolio includes ceramic, aluminum electrolytic and film capacitors, ferrites and inductors, high-frequency components such as surface acoustic wave (SAW) filter products and modules, piezo and protection components, and sensors. With this product spectrum TDK-EPC offers a broad range of products and solutions of outstanding value from a single source and focuses on demanding markets in the areas of information and communication technology and automotive, industrial and consumer electronics. The company has design and manufacturing locations and sales offices in Asia, Europe, and in North and South America.

You can download the text in this message and associated images from www.epcos.com/pressreleases. Further information on the products can be found under www.epcos.com/power_inductors.

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