

Inductors

Frame core power line chokes with vertical design

- Footprint reduced by more than 30 percent
- Good suppression of both common-mode and differential-mode interference
- Approved according to ENEC (VDE) and UL

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TDK Corporation has extended its range of EPCOS frame core power line chokes with the B82733V* series in a vertical design. The new series complements the existing horizontally designed B82733F* series. The vertical design is particularly advantageous when there is limited space on the printed circuit board. With an insertion height of 27 mm, for example, the new chokes have a footprint of just 29 mm x 15.5 mm. This is more than 30 percent smaller than that of the horizontal version which, with a height of 14 mm, requires an area of 26.5 mm x 24.8 mm.

The current-compensated chokes are designed for a maximum voltage of 300 V AC and offer inductance values of between 10 mH and 100 mH. At an operating temperature of 40 °C, the chokes can handle rated currents of between 0.7 A and 2.3 A. Both the plastic frame and the epoxy resin coating meet UL94 V-0 requirements.

In addition to their good common-mode suppression, the chokes feature good differential-mode suppression thanks to their relatively high stray inductance of about two percent. In many cases this means that no additional components for differential-mode suppression are required. The chokes are therefore particularly suitable for new designs of switch-mode power supplies with high switching frequencies.

The new components are approved according to ENEC (VDE) and UL and are RoHS-compatible.

Main applications

- Low to medium power switch-mode power supplies

Main features and benefits

- Footprint reduced by more than 30 percent
- Good suppression of both common-mode and differential-mode interference
- Approved according to ENEC (VDE) and UL

Key data

Series	Dimensions [mm] (L x W x H)	Rated inductance [mH]	DC resistance [Ω]	Rated current [A]
B82733V* (vertical)	29 x 15.5 x 27	10 to 100	0.188 to 1.810	0.7 to 2.3
B82733F* (horizontal)	26.5 x 24.8 x 14			

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 2015, TDK posted total sales of USD 9.0 billion and employed about 88,000 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/power_chokes.

Please forward reader inquiries to marketing.communications@epcos.com.

Contacts for regional media

Region	Contact	Phone	Mail
ASEAN	Mr. K. UNTERWEGER EPCOS PTE LTD SINGAPORE	+65 6597 0618	klaus.unterweger@epcos.com
Greater China	Ms. S. SUEN EPCOS LTD HONG KONG	+852 3669 8224	stella.suen@epcos.com
Europe	Mr. C. JEHLÉ EPCOS Munich, GERMANY	+49 89 54020 2441	christoph.jehle@epcos.com
India	Mr. G. DALVI EPCOS India Private Ltd. Mumbai, INDIA	+91 22 2575 0804	girish.dalvi@epcos.com
Japan	Mr. A. TESHIMA TDK Corporation Tokyo, Japan	+813 6852 7102	pr@jp.tdk.com
North America	Ms. D. MARTIN EPCOS Inc. Fountain Hills AZ, USA	+1 480 836 4104	debbie.martin@epcos.com
South America	Mr. C. DALL'AGNOL EPCOS do Brasil Ltda. Gravataí, BRAZIL	+55 51 3484 7158	candido.dallagnol@epcos.com