

EMC components

Clamp filter with a low profile

- Low-profile clamp filter suitable for flat-screen TVs
- Mass production to begin in April 2012

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TDK-EPC, a group company of the TDK Corporation, has developed the ZCAT-D series of TDK clamp filters. The new low-profile filters are especially suited for EMI suppression by eliminating noise in the power lines of flat-screen TVs, in speaker lines, and similar applications. Mass production is scheduled to begin in April 2012.

TDK clamp filters employ a vertically split cylindrical ferrite core, with the entire filter enclosed in a resin housing, a construction principle unique to TDK products. The ferrite core, which was developed by applying TDK's original materials technology, ensures excellent magnetic characteristics and effective RF noise suppression.

Because conventional products are too thick to fit into the rear case of flat-screen TVs, the new filter has been slimmed down. This was achieved by modifying the sintering method of the material for the ferrite core, allowing it to be made thinner without negatively affecting performance. The result is a 30 percent height reduction compared to conventional TDK products. The temperature range for usage is -25 to +85 °C.

Main applications

- Noise suppression in the power lines of flat-screen TVs, speaker lines, and similar applications.

Main features and benefits

- A modified sintering method for ferrite core achieves a component height of up to 30 percent less than existing products.

Key data

Type	Impedance at 100 MHz [Ω]	Dimensions [mm]
ZCAT20D	210	35.0 x 30.0 x 20.0
ZCAT13D	150	34.0 x 20.0 x 13.0
ZCAT10D	95	27.0 x 14.5 x 10.0

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.

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