



## For Immediate Release

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## **TDK Announces Industry's First\* Automotive Clamp Filters**

*New Filters Ideal for Electromagnetic Noise Countermeasures in Automotive Applications*

**TOKYO JAPAN, January 23, 2008**—**TDK Corporation** announced the development and mass production of the industry's first\* automotive clamp filters. The new filters, ZCAT08V-BK and ZCAT12V-BK, began production in December 2007.

As the use of electronic controls increases in vehicles, EMC countermeasures for onboard automotive electronic components have become crucial. In addition, considering the adoption of advanced functions and the use of electronic equipment for more functions, the development of these new products became very important.

In response to these advanced market needs, TDK developed clamp filters that are suitable for automotive use as an effective noise countermeasure against the effects of electromagnetic noise on the cables that link the various onboard ECUs\*\* and units.

TDK's clamp filters have an original structure consisting of a vertically-split cylindrical ferrite core with an integrated resin case for mounting on cables. The ferrite material, a key component of the filter, provides outstanding magnetic characteristics and high-frequency absorption properties achieved through precise control of the fine structure using TDK's original materials and process technologies.

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To meet automotive requirements, the resin case and core material of these new filters has been improved to enhance heat resistance and shock resistance for use in automotive applications. Additionally, the operating temperature range has been increased from earlier TDK products (-25°C - 85°C) to -40°C - 125°C.

\* As of January 2008, according to TDK investigations.

\*\* Electronic control unit: Automotive ECUs initially were used primarily for engine control, but today they are used in numerous applications including drive systems such as antilock braking systems and electric power steering.

### **Specifications:**

- ZCAT08V-BK
  - Impedance: 120 Ohm (measurement frequency: 100 MHz)
  - Unit length: 33 mm; exterior diameter: 18 mm; interior diameter: 8 mm
  
- ZCAT12V-BK
  - Impedance: 140 Ohm (measurement frequency: 100 MHz)
  - Unit length: 35 mm; exterior diameter: 27 mm; interior diameter: 12 mm

### **Production and Sales Plan:**

- Sample price: 300 yen/unit
- Production capacity: 100,000 units/month
- Production start: December 2007

For more information about this product contact your local TDK sales representative or visit our website at [www.tdk.com](http://www.tdk.com).

### **About TDK Corporation**

*TDK Corporation (NYSE: TDK) is a leading global electronics company based in Japan. It was established in 1935 to commercialize "ferrite," a key material in electronics and magnetics. TDK's current product line includes ferrite materials, electronic components, wireless computer networking products and magnetic heads for HDD. For more information about TDK, please visit <http://www.tdk.com> or <http://www.tdk.co.jp>.*

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