



FOR IMMEDIATE RELEASE

[26 May 2009]

New chip inductors from TDK offer best impedance in a 1005 device

- *Designers can control noise over a wide frequency range with a single MMZ1005-E inductor -*
- *Use of the device can reduce component count and board space requirement -*

[26 May] 2009 – TDK Electronics Europe today announced the introduction of the MMZ1005-E series, a family of three Gigaspira multilayer gigahertz-band chip bead inductors offering the world's highest impedance in a 1005-size device.

The MMZ1005-E parts offer a high-performance noise-filtering capability over a wide range of high frequencies. In systems that currently use multiple narrow-band inductors to cover a wide frequency range, the MMZ1005-E can provide the same function in a single chip, thus reducing component count and board area.

The three inductors MMZ1005S 182E, MMZ1005A 182E and MMZ1005A 222E offer a high impedance of 1800Ω-2200Ω at 100MHz, and 1800Ω-3000Ω at 1GHz. The MMZ1005S 182E and the MMZ1005A 182E are rated for 200mA, and the MMZ1005A 222E is rated for 150mA.

Current trends in mobile devices such as mobile phones have seen phones incorporating more advanced functions such as terrestrial digital broadcasts, FM broadcasts and GPS functions in addition to standard talk functions. Each of these advanced functions, when used, requires a different signal. If radiated noise affects the reception antenna or high-frequency circuit units, reception sensitivity can deteriorate. It is therefore necessary to eliminate noise from high-density mounted circuits and isolate each signal. As mobile devices become smaller and slimmer, there are increasing demands for space-saving component mountings and smaller components.

By using an original multilayer structure and ferrite materials technologies, TDK has successfully raised the impedance of its chip bead inductors, adding to the existing line-up of products suitable for eliminating noise over a wide band in the gigahertz range. Including the new parts, TDK's line-up of Gigaspira beads (MMZ1005-E) comprises a total of eight types of two materials, allowing users to select the product ideally suited to their needs.

More information about the Gigaspira range of chip bead inductors can be found at www.tdk-components.eu.

Availability

MMZ1005-E Gigaspira multilayer gigahertz band chip inductors are scheduled to go into mass

production in June 2009.

About TDK Electronics Europe GmbH

TDK is a recognised world leader in the design and manufacture of electronic components. This position has been achieved through dedication to the development of new materials, new products, advanced manufacturing processes, improvements in product quality and exceptional customer service. Founded in Japan in 1935, TDK was created with the aim of becoming the world's first manufacturer of the magnetic material ferrite. TDK's European operations, head quartered in Duesseldorf, Germany, includes 7 regional sales offices, 2 R&D laboratories and 2 manufacturing centres. From these bases and with the support of a wide distribution network, TDK provides more than just access to components and technology.

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