



For Immediate Release
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New miniature chip varistor with BGA terminals offers 33% saving in board mounting area

One chip contains 30 elements, can be used to create 10-line arrays for ESD counter-measure. Also provides EMI filtering, eliminating need for separate anti-EMI components

17 April 2009 - TDK Electronics Europe today introduced the AVF26BA12A400R201, a miniature chip varistor that uses a Ball Grid Array (BGA) terminal arrangement to reduce board mounting area by 33%.

It has been developed in response to the requirement from manufacturers of mobile phones, portable games consoles and other mobile electronics products for smaller and more integrated components.

Although just 2.6 mm × 2.6 mm × 0.65 mm, the AVF26BA12A400R201 offers both Electro-Static Discharge (ESD) counter-measures and an Electromagnetic Interference (EMI) filter function. Each chip contains 30 elements and can be used to create 10-line ESD counter-measures. The capacitance value of the chip is 40pF at 1MHz.

The device is 33% smaller than previous generations of TDK chip varistors, but because of its integrated EMI filtering capability it provides further space savings by eliminating the requirement for separate EMI counter-measure components.

The AVF26BA12A400R201 was introduced to provide high-performance ESD protection and EMI filtering capability to the latest generation of mobile electronic devices. Products such as mobile phones have steadily become smaller while incorporating more advanced functions in recent years, and as a result, further miniaturisation and integration of the electronic components used in them are necessary.

In addition, the use of lower IC operating voltages is accelerating, as manufacturers strive to extend device operating times by limiting power consumption. This means the creation of environments that are even more susceptible to the effects of high-voltage static electricity. As a result, ESD counter-measures to prevent the malfunction of devices and damage to their

components are essential.

The AVF26BA12A400R201 meets this need by providing dependable ESD protection combined with EMI filtering in a BGA package suitable for mounting on the space-constrained circuit boards found in portable electronics devices.

The AVF26BA12A400R201 is sampling now, with volume production scheduled to begin in the second half of 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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