

Press Release for the Trade Press

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Multilayer ceramic technology: **Compact protection for USB ports**

EPCOS has developed the CeraDiode® CDA6 array series for the ESD protection of two USB 2.0 ports. In addition to protecting the four data lines, it also shields the supply voltage against overvoltages. The ESD protection satisfies Level 4 of IEC 61000-4-2. Unlike conventional TVS diodes, the protection is effective against both positive and negative voltages. The 1012 package as well as the configuration of the pads were developed so that the array can replace the more expensive SOT23-6L diode solutions with no redesign of the circuit board. The CeraDiode® solution also offers a better thermal response than the semiconductor-based designs.



The array is suited for voltages up to 5.6 VDC. In addition to an extremely low response time of less than 0.5 ns, it features a low parasitic capacitance of only 5 pF, so that no significant signal distortion or attenuation occurs even at high data rates.

In addition to desktop computers and notebooks, the CeraDiode® array can be used in set-top boxes, MP3 players, cameras as well as other consumer, IT and communication devices.

You can download the text of this press release and press photos from www.epcos.com/tradepress
Further information on the products presented here will be found at www.epcos.com/ceradiode

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