



Electronic Parts and Components

Press Release for the Trade Media

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Inductors

Rugged version for automotive electronics

EPCOS presents an improved and particularly rugged version of SMT power inductors for automotive electronics. Their design, which features a baseplate with injection-molded termination clips, increases the mechanical stability and improves the temperature distribution during the solder process. Lands with a nickel barrier-layer coating satisfy the tougher demands for use in automotive electronics.

The new series currently comprises six types: four shielded (P series) and two unshielded (M series). Depending on the type, their dimensions range between 7.3 x 7.3 x 4.5 mm³ and 12.5 x 12.5 x 8.5 mm³. The components are available with inductances from 0.82 to 1000 µH, and have a current handling capability of up to 15 A. Their series resistance is only 5.5 mΩ at low inductances. All types are designed for operating temperatures of up to 150 °C and pass a vibration test of 10 g for 72 h. They also satisfy the requirements of the handling-drop test to ISO 16750-3. The new SMT power inductors are qualified to the AEC-Q200 standard and satisfy the solder profile to JEDEC-020-C.

You can download the text of this press release and the related images from www.epcos.com/tradepress
Further information on this topic can be found at www.epcos.com/power_inductors

Please forward reader inquiries to EPCOS AG, Fax +49 89 636-22471, marketing.communications@epcos.com

Contacts for regional media:	Europe, NAFTA Christoph Jehle EPCOS AG Munich/GERMANY Phone +49 89 636-24 615 Fax +49 89 636-22 741 christoph.jehle@epcos.com www.epcos.com	Asia Angelia Liew EPCOS PTE LTD SINGAPORE Phone +65 6840-6488 Fax +65 6744-6992 angelia.liew@epcos.com www.epcos.com.sg	South America Candido Dall'Agnol EPCOS do Brasil Ltda. São Paulo/BRAZIL Phone +55 11 3817-3435 Fax +55 11 3817-3447 candido.dallagnol@epcos.com www.epcos.com
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