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PRODUKTINFORMATION/PRODUCT INFORMATION

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ja

Produktbezeichnung/product description

Magnetic cement power chokes: new technology for tailored and cost-optimized components

MAGMENT power inductors and transformers are based on a disruptive technology for both a novel material and an innovative magnetic design. The material is a concrete with magnetizable grains embedded in a cement matrix in a pressureless process. Its features are high DC-bias capability and low losses as well as very high linearity, thermal conductivity and mechanical robustness. This allows to design rugged inductive components with a distributed air gap for minimized eddy current losses by completely surrounding the coil by the MAGMENT material. This ensures a complete magnetic filling of the available volume within the aluminum housing yielding maximum performance and cooling. As compared to the conventional manufacturing of winding cores and sealing with a potting material, our "wind and magnetic pour" process goes along with full shape and size flexibility. This allows to both tailor components to any given space constraints and to minimize material utilization by a special magnetic design algorithm yielding lowest cost as compared to any other inductive technology. All component manufacturing process steps are under one roof ensuring quickest turnaround time from design-in to shipping.