

Double Choke With Molding Technology Suits DC-DC Converters

From [Würth Elektronik eiSos](#), the WE-MCRI is a novel double choke, which is said to be the first of its kind on the market with molding technology. With its soft saturation characteristics, the WE-MCRI is well suited for dc-dc converter applications.

The WE-MCRI consists of two identical round wire-windings compacted in a metal powder material. Designed for SMT assembly, the double chokes deliver improved EMC performance and are extremely compact (10 x 11.5 x 9 mm). The series specifies a rated current up to 17 A and a saturation current up to 43.5 A (see the figure).

Thanks to their special winding style, the WE-MCRI series components excel with their outstanding coupling coefficient of up to 0.995 which means much lower leakage inductance than similar coupled inductors. These double power chokes are suited for SEPIC and Ćuk converters for which a high rated current and saturation current with a high coupling coefficient are called for.

Other applications include flyback converters with a 1:1 turns ratio as well as stepup and stepdown converters with isolated secondary output voltage. The WE-MCRI series is available from stock in any quantities. Free samples are also available. For more information, see the WE-MCRI SMT Molded Coupled Inductor [page](#).

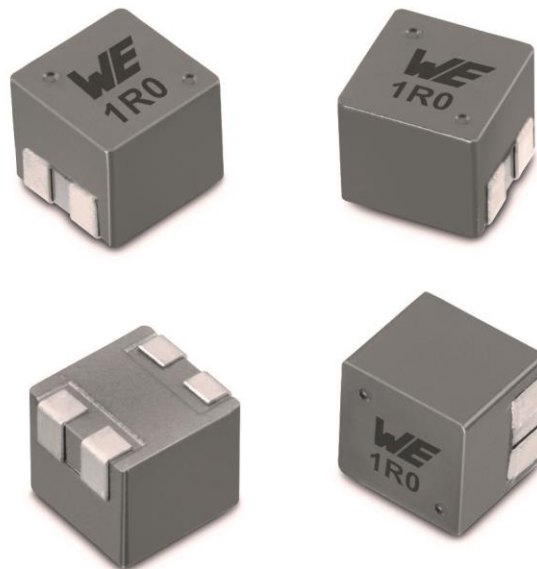


Figure. The WE-MCRI double choke consists of two identical round-wire windings compacted in a metal powder material. The surface-mount double chokes feature excellent electrical performance and improved EMC performance in an extremely compact (10 x 11.5 x 9 mm) design.