

Construction

MDI hybrid DC-DC Converters are completely self contained, hermetically sealed power supplies reconstructed on ceramic thick film substrates. They require no external components for standard operation from power buses. All necessary magnetic components, capacitors and filtering is contained within the hybrid package. The hybrid construction allows the converters to withstand severe environmental requirements. All magnetic components within the hybrid are constructed in toroidal form. Since the windings are on the outside, the toroidal construction results in better heatsinking of the magnetic components than possible with ferrite cored magnetics. The resistors are primarily printed directly on the thick film substrate, with certain key resistors as separate chips.

The active components are principally bipolar, excepting the switching FET. This allows the same circuit topology and layout to be used for both non-Rad Hard and Rad Hard uses, depending on actual part types used.

A wide variety of cases is offered in both PC mount and chassis mount configurations. Choices of solder sealed and seam welded packaging are also offered.