Isolated 1W DC-DC Converter Offers Tight Load Regulation and Improved Efficiency

Murata Power Solutions today announced the MEE1 series, a 1 Watt single output PCB mounted DC-DC converter designed for a broad range of industrial, automation and instrumentation applications that require an isolated low-power distributed supply. These highly efficient converters, up to 86% efficient, are available in a variety of models accommodating the popular nominal input voltages of 3.3, 5, 12, 15, or 24 VDC and with output voltages of 3.3, 5, 9, 12 or 15 VDC.

Compared to similar sized and power rated products currently available on the market, the MEE1 efficiency has been increased by up to 8% and has a typical efficiency range of 76 - 86% depending on output voltage. Load regulation has also been significantly improved and is now as low as 3% across the load rate of 10 to 100% for the 24 VDC input/15 VDC output model, MEE1S2415SC. Isolation is 1 kVDC.

The MEE1 converter series is available in the industry standard SIP 4-pin and DIP 8-pin pinout formats, giving designers a choice of package depending on the space available within their end product. The MEE1 is an ideal pin-compatible drop-in replacement for updating older designs without the need for any PCB changes.

The MEE1's isolation allows the converter to be configured to provide an isolated negative rail in systems where only a positive rail exists.

Safety certification to the internationally recognized specification UL60950 is

currently pending.

The series can operate at full output power across a wide range of temperatures from -40 to +85 degrees C making it suitable for use in most operating environments.

OEM pricing $4USD, lead -time stock to 8 weeks.

Murata Power Solutions
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Links:
[1] http://www.murata-ps.com