DC-DC converters suitable for industrial and telecommunications applications

Murata Power Solutions today announced the MEE3 series of single output 3 Watt ultra compact DC/DC converters suitable for a wide range of industrial and telecommunications applications. These single-in-line 4 pin packages (SIP4) are alleged to provide 50% more power than previous 2 W devices using the same industry standard package. In addition, compared to other 3 W converters that traditionally use a dual-in-line 24 pin package (DIP24), the MEE3 series is much smaller resulting in a 200% increase in power density from 0.9 to 2.68 Watts per cubic cm.

Within the series two modules are available offering either 5 VDC or 12 VDC inputs. The popular nominal outputs of 5, 9, 12 or 15 VDC are available across the full MEE3 range. Typical converter efficiency is from 83% to 89% and is model dependent. No additional forced air cooling or heatsinks are required. The series offers exceptional load regulation, typically in the range of 2.7 to 6.3%.

These fully encapsulated units offer 1,000 V input to output isolation and can deliver full power across the industrial operating temperature range of -40 to + 85 degrees C.

The MEE3 series complies with the internationally recognized UL/EN 60950 safety standard for IT equipment.

The converters provide a pin compatible power upgrade path from Murata Power Solutions’ 1 W NKE/NME and 2 W NML series.

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