

Compact 20 W DC-DC Converters



Available immediately from MicroPower Direct; the I2000RU series is a high performance family of 20W DC/DC converters. They are specifically designed to provide high power density, long field reliability and high performance features for space critical applications. Standard features include an ultra-wide input voltage range, efficiency to 89%, industry standard pin-out and tight line/load regulation.

Twelve models operate from 4:1 input ranges of 9 to 36 VDC, or 18 to 75 VDC, providing tightly regulated single and dual outputs of 3.3, 5, 12, 15, ± 12 or ± 15 VDC. Standard features include an input/output isolation of 1,500 VDC, low output noise, tight line/load regulation and efficiency as high as 89%. All models have continuous short circuit protection, output power protection and a remote control input. The MTBF (per MIL HDBK 217F) of the I2000RU series is 346 khours.

The I2000RU family is packaged in an ultra-miniature, 1.0 x 1.0 x 0.43 inch metal case. The pin-out is industry standard. Each model is specified for operation over the wide operating industrial temperature range of -40°C to $+85^{\circ}\text{C}$.

The I2000RU series is an ideal choice for a wide variety of board level power applications where high output power, robust performance and miniature packaging are essential. Applications would include process control systems, portable/mobile equipment, data processing systems, and power distribution subsystems.

MicroPower Direct products are designed to provide long, reliable field life. Considerable attention is given to the proper selection, derating, and layout of all circuit components. In addition, extensive reliability screening is also performed on all modules as a routine part of our production process.

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