Quarter Brick DC/DC Converters

With the introduction of eight new models, Ericsson Microelectronics has expanded its range of quarter brick DC/DC converters, all devices offering industry leading efficiency figures of up to 91%.
Designated as the PKM 4000 family, the range now offers 15 A and 20 A models encompassing 1.5 V, 1.8 V, 2.5 V, 3.3 V and 5 V output voltages. Full output power is guaranteed at case temperatures of up to 100&#176C.
Proprietary circuits, planar magnetics and patent pending synchronous rectification topology are combined with an advanced low resistivity multilayer PCB. The result is a design that delivers full power across the wide input voltage range of 36 to 75 V, in compliance with the ETSI standard, making it well suited for distributed power applications.
To achieve efficiencies of 91%, the PKM 4000 utilizes a double sided assembly that separates the power and signal circuitry. Combined with advanced thermal management design, this removes localized hotspots within the device contributing to the PKM 4000 achieving an exceptionally high MTBF figure of 2.8 million hours.
Simplifying the task of integrating the PKM into system level designs, the device has built in remote control, remote sensing, current limit, over and under voltage protection, output voltage trim, over temperature protection, soft start and is short circuit protected.
The module is tested to meet IEC 68-2 environmental standards and is also approved to EN60950 and UL1950 safety standards. Complete data is provided to simplify the thermal design process, enabling designers to accurately predict power dissipation and temperature rise for a wide range of operating conditions.
The PKM 20A models are in industry standard 2.28inches&#215 1.45inches quarter brick format.

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