

DC/DC converter sets new benchmark for output power, packaged in the industry-standard MacroDens™ footprint

Showcased at Electronica, Ericsson Power Modules' PKR DC/DC converter raises the benchmark for compact, low power modules by increasing output power from 15W to 30W compared to the company's market leading MacroDens™ modules. This has been accomplished thanks to increased efficiency, and so does not affect power dissipation or compromise thermal management.

With production units becoming available in Q1 2005, and with its excellent power/size ratio characteristics, the PKR is aimed at a wide range of distributed power architectures users in telecoms, datacoms and industrial applications such as radio base stations, routers, and process control and automation equipment. Indeed the product has been developed to meet the need of customers who previously would have used MacroDens™, but now require more power.

The PKR platform will embrace units with output power ratings up to 30W, or output currents up to 10A. Output voltages will be in the range of 1.2V to 15V, whilst input voltages will cover 18V to 36V for the PKR2000SI, and 36V to 75V for the PKR4000SI. The PKR4210SI is the first product to be released in the series and offers an output of 3.3V at 8A from an input voltage range of 36 to 75V.

The PKR uses the same footprint and pin-out as Ericsson's MacroDens™ modules and has a profile low enough to permit its use in applications where board spacing is as low as 15mm. Accordingly, PKR offers a simple migration path from MacroDens™ when more power is needed.

As an open-frame, surface mount device, PKR also offers reduced manufacturing costs. This is further aided by the module's simple and straightforward pinless interconnection design. Ericsson's PKR is designed for the environment and is compliant with RoHS requirements.

Ericsson's proprietary control circuitry, coupled with synchronous rectification ensure high performance and reliability. Indeed the PKR features design improvements accumulated from experience gained with the MacroDens™ platform with over 30,000,000 (30 million) pieces sold worldwide. Accordingly, designers and end users who have been satisfied using MacroDens™ will be comfortable using PKR as power levels increase.

Ericsson is shaping the future of Mobile and Broadband Internet communications through its continuous technology leadership. Providing innovative solutions in more than 140 countries, Ericsson is helping to create the most powerful communication companies in the world.

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About Ericsson Power Modules

Ericsson Power Modules is a supplier of world-class DC/DC power modules for distributed power architectures. With its global design, development, manufacturing and sales network Ericsson Power Modules is a leading supplier of power solutions to meet the customer demand for high performance.