

## Dual output DC/DC converters for lead free, low profile applications

Ericsson Power Modules has expanded its PKD range of DC/DC converters to include dual output voltage models, meeting the needs of lead free manufacturing processes and applications where an increased number of voltages are used on the same board. The first two products in the PKD dual series are PKD4528SI and PKD4520HSI. The converters are both 50W devices with an input range of 36-75V, and offer dual output voltages of 5V(10A)/3.3V(10A), and 3.3V(15A)/1.5V(12A) respectively. The converters offer more flexibility for users in terms of load requirements, by providing a high current capability on both outputs.

The PKD duals are a development of the single output PKD DC/DC converters; the world's first surface mount DC/DC converters designed for lead-free manufacturing processes that can withstand re-flow soldering at temperatures up to 260 °C. The performance increase has been achieved through better utilization of the ceramic substrate and thermal design improvements, including better thermal and electrical conductivity in the lead-frame material. The new MOSFET technology used in the modules has decreased power losses and resulted in increased efficiency, now typically **xx – xx%** at full load.

Meeting the needs of modern communication equipment where available space is often minimal and component packing density is high, the modules measure just 57x50x7.5mm. In particular, the height of 7.5mm allows close spacing - down to 15mm - of printed circuit boards to minimize system size. In their SMD format, the modules lower production costs and the lead free design meets the needs of future lead free legislation, now.

Ericsson's dual PKD DC/DC converters have 1500Vdc input/output isolation and meet isolation requirements equivalent to basic insulation according to IEC/EN/UL 60 950. The typical mean time between failures (MTBF) is expected to reach similarly high levels to those of their predecessor i.e. 5,100,000 hours at +75°C.

Aimed at telecom and datacom equipment manufacturers, the PKD duals have been designed to meet the voltage requirements of modern ASIC, DSP and microprocessor powered applications and are ideal for use in applications such as telecom switches, radio base stations, routers, optical networking, wireless LAN, and wired access.

The first two PKD duals are available now, priced at \$49/piece for 1,000+ quantities.

*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.*

**FOR FURTHER INFORMATION, PLEASE CONTACT**

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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.