

Flexible, non-isolated DC/DC regulators in standard format offering reduced over-all cost

As a point of load (POL) regulator in distributed power architectures, Ericsson Power Modules' PMC4000 regulator offers designers clear advantages where both board space and component height are limited. Designed to meet the needs of DPA-L4 and the migration towards lower voltages and higher currents, the devices' most important applications are where a standard DC/DC converter for 3.3V or 5V is used as the power supply.

The PMC4000 offers a programmable output voltage of 0.75 – 3.63V and are able to handle a wide input range of 3 – 5.5V. Offering flexibility, the output voltage is easily adjusted by a voltage signal, alternatively by a resistor trim. This programmable output feature combined with the wide input range offers tremendous flexibility and reduced logistics costs in applications where there are multiple voltages. The PMC4000 'family' comprises two parts; the PMC 4318 WS with 10A output capability, and the 16A rated PMC 4518T WS. Reducing system power consumption, the regulators are typically 96% efficient. Exhibiting robustness and reliability, the regulators are able to operate in an ambient temperature range of –30 to +90°C.

Showing versatility, other features of the POL (point of load) PMC4000 include under voltage and short circuit protection, remote sensing, and remote on/off.

Featuring a cost efficient, open frame design, the regulators are available in a surface mount, industry standard footprint package measuring just 33 x 13.5 x 8.3mm. The device's small size – particularly its height - enables higher package integration through tighter board spacing and offers reduced cost of equipment real estate. As an industry standard packaged device, the PMC4000 embraces a mature concept that offers the benefit of secure sourcing.

The regulators are designed in accordance with safety standards IEC/EN/UL 60 950, and are manufactured using the most advanced technologies and materials to meet design for environment (DfE) requirements. Further, the PMC4000 parts are manufactured in accordance with RoHS and meet future, incoming legislation. Accordingly, deployment of PMC4000 regulators in a system eliminates the need for re-qualification at a later date – to an extent they are 'future proof'.

Ericsson Power Modules is committed to continuous product development, and its product roll out program includes the introduction of 3.3, 5, and 12Vin PMC regulators soon.

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.