

Ericsson delivers three-millionth board-to-board DC/DC converter designed for environment

As a company very focused on its environmental, social and economic impact on the world, Ericsson is constantly striving to improve these aspects of all its products and services, from manufacturing, through the reduction of product deployment energy consumption levels, to end-of-life disposal. Now, with the shipment of its three-millionth board-to-board DC/DC converter, a landmark has been achieved by Ericsson Power Modules since this technology was first introduced in 2004.

Ericsson products increasingly reflect its commitment to environmental, social and economic issues. In 2001, responding to environmental concerns in Japan and Europe, Ericsson Power Modules was the first in the power industry to release lead-free solder products, the PKD series.

Further, the excellent market response to Ericsson Power Modules' PKD series DC/DC power converters and Ericsson's constant research to develop the most efficient products – which help to reduce environmental impacts while also reducing cost and improving performance – motivated Ericsson Power Modules to extend the use of its board-to-board technique first developed for high-volume projects notably in its MacroDens PKF/PKR, and recently in its PKD-E.

The board-to-board technology introduced in 2004 by Ericsson Power Modules in the BMP (board-mounted product) segment is an important step when it is necessary to comply with cost-efficiency parameters without compromising the effect of the product on the environment.

Removing molding, ceramic substrates, lead-frames, and adopting the use of lower thermodynamic sub-assemblies has contributed to reducing the board-to-board modules' mass by 30%. This means that they require less energy during the manufacturing process and also when being assembled into the customer's host equipment.

It is not always possible to accommodate full functionality on one side of a board. But when it is possible, the board-to-board technique is the best platform for reducing the use of substances such as epoxy molding, or other compounds that add cost and complexity when equipment end-of-life is reached and recycling is necessary. Ericsson Power Modules is the first company in the board-mounted power industry to use such technology in low and mid-power DC/DC converters.

As well as simplifying products to reduce their environmental impact, Ericsson Power Modules is committed to, and undertakes research in, such new technologies as digital power management and control, which,

combined with high high-efficiency topologies, further contribute to increasing systems efficiency, reducing energy consumption.

Complementing other technologies such as digital power management, the implementation of board-to-board technology in radio base stations is one of the ways Ericsson is working to optimize the energy efficiency of its portfolio.

The combination of such new technologies and energy saving initiatives will result in lower Total Cost of Ownership, while at the same time contributing to a reduction in carbon dioxide emissions.

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

Patrick Le Fèvre, Marketing Director

Ericsson Power Modules AB

Phone: +46-8-568 695 07

Fax: +46-8-568 695 99

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If printing an internet address, please use Power Modules homepage and/or phone number to our International sales office:

URL: www.ericsson.com/powermodules

Europe: +46-8-568 696 20

US: +1-972-583 6910/5254

China: + 86-21-5990 3258

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.