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Murata Power Solutions
www.murata-ps.com

News Release

**New OKL series 12Vin, 3A output current PoL DC/DC converters
feature inspectable LGA (iLGA) surface mount package**



- *iLGA: inspectable LGA interconnect for ease of manufacturing*
- *12Vin (4.5V to 14V), 3A output current in compact 12.2mm x 12.2mm footprint*
- *Programmable output voltage from 0.591V to 5.5V*
- *600kHz switching for fast transient response*

The latest addition to the Okami™ family of non-isolated point-of-load (PoL) DC/DC converters from Murata Power Solutions, the OKL range, features the inspectable Land Grid Array (iLGA) package.

The iLGA package, utilised on the new OKL-T/3-W12 series, features small plated cutouts (castellations) that allow probing and visual inspection of all signal pads which is not possible with conventional LGA configurations. The iLGA package enables excellent heat management characteristics, wherein the large copper pads provide a very low thermal impedance path between the module and the board onto which it is mounted.

The OKL-T/3-W12 series comprises two models to give designers a choice of either positive or negative On/Off logic. The compact modules have a nominal 12V (4.5V to 14V) input and a maximum output current of 3A.

In common with all previously announced Okami products, the OKL-T/3-W12 series uses the latest industry accepted standard pad layout for interconnects.

A combination of extremely high power density and a small footprint of just 12.2mm x 12.2mm makes the new modules especially useful in designs where board space is limited.

The OKL-T/3-W12 series has a programmable output voltage range of 0.591V to 5.5V which is user-selected via an external resistor. These new modules are able to drive ceramic capacitive loads up to 200 μ F, and overall efficiency is up to 93%. They also feature 600kHz switching frequency, which offers the potential for improved transient response with reduction of output capacitance.

Murata Power Solutions offers simulation tools for its Okami modules that allow engineers to evaluate the PoL behaviour as if the actual model were in their application. The tools do not require SPICE knowledge and can help simplify and speed selection of the most appropriate Okami PoL for a given application.

The OKL-T/3-W12 series is RoHS-compliant and designed to meet UL/EN/IEC 60950-1 safety approvals and FCC emissions certifications. Operating temperature range is -40°C to +85°C.

Ends

About Okami™

Okami, Japanese for “wolf”, is the registered trademark for Murata Power Solutions’ new breed of DOSA PoL DC/DC converters. For more information on the Okami family, please visit www.murata-ps.com/okami

About Murata Power Solutions

Murata Power Solutions (www.murata-ps.com) is headquartered in Mansfield, Massachusetts, with over 1,300 employees, and locations in the USA, Canada, England, France, Germany, Singapore, Japan and China. Murata Power Solutions designs, manufactures and distributes DC/DC Converters, AC/DC Power Supplies, Magnetics, Data Acquisition devices and Panel Meters, and offers these products in custom, standard and modified-standard variations. These products, which are built to exacting requirements in ISO9000:2000-approved facilities, are typically used worldwide within telecommunications, computing, industrial and other high-tech applications.

About Murata

Based in Kyoto Japan, Murata Manufacturing Company Ltd is one of the world’s leading providers of ceramic based components, sensors, and AC/DC and DC/DC power solutions. Founded in 1950, the company has over 34,000 employees worldwide, and over \$6.3 billion US in consolidated annual sales (as of March 31, 2008). Everywhere in the world, wherever you can reach, Murata’s electronic components are always at work.

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