



MEA & MEV Series

New 1W DC/DC converters set new standards for efficiency, miniaturisation and reliability

- Typical efficiency from 84%,
- power density of 0.85W/cm³
- Load regulation performance of <5%
- Industry standard SIP 7 package
- Choice of single output 3kVDC isolation, and dual output 1kVDC isolation devices

Murata Power Solutions has introduced two new series of isolated 1W, DC/DC converters that set new standards for efficiency, miniaturisation and reliability. The single output MEV and dual output MEA series are the new high performance versions of the company's well established and popular NMV and NMA series.

When originally introduced, the NMV and NMA series set new standards for 1W DC/DC power conversion. Since then, over 10 million units have been designed into customer products across the world. The new MEA and MEV series build on this reputation to give designers the choice of an enhanced performance version of the current NMV and NMA family.

With efficiency levels from 84%, an improvement of 10% versus the existing products, the MEV and MEA series respond to the current industry emphasis on minimising power usage. Improved load regulation performance of <5% makes the new DC/DC converters well suited for use in applications where output voltage variation can not be tolerated. The overall load regulation tolerance envelope has been reduced from 17.5% to 9%.

The MEV series is ideal for providing local supplies on control system boards with the added benefit of 3kVDC galvanic isolation to reduce switching noise. The MEA series meanwhile has 1kVDC isolation and is excellent for providing dual rail supplies.

Supplied in a UL 94V-0 industry standard pinout SIP 7 package measuring 0.77in. (19.50mm) x 0.236in. (6.0mm) x 0.394in. (10mm) high, the RoHS compliant MEV and MEA series have a power density of 0.85W/cm³. Both ranges offer input voltages of either 5V or 12V; output voltages range from 5V to 15V. The fully encapsulated design uses toroidal magnetics, ceramic substrates and capacitors. No external components are required.

The MEV and MEA series offer wide -40°C to +85°C temperature performance at full 1W load with free air convection cooling.

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, 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.