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FOR IMMEDIATE RELEASE **No. 2862**

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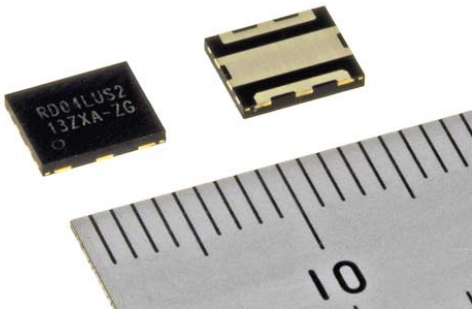
Mitsubishi Electric to Launch 3.6V High-power MOSFET for Commercial Two-way Radio Devices

TOKYO, August 28, 2014 – Mitsubishi Electric Corporation (TOKYO: 6503) announced today that from September 1 it will begin shipping samples of its model RD04LUS2 high-power metal-oxide semiconductor field-effect transistor (MOSFET), which is designed for use in high-frequency power amplifiers of commercial two-way radio devices. The model offers industry-leading 4W output when using a 3.6V Li-ion 1-cell battery. Mitsubishi Electric will initially produce 200,000 units per month.



RD04LUS2

While the popularization of mobile phones has led to 3.6V Li-ion batteries costing less than traditional 7.2V batteries, the need for a higher-power MOSFET arose because lower-voltage batteries decrease the MOSFET's output power. Mitsubishi Electric has now met this demand with its new MOSFET, which offers unmatched 4W output power using a 3.6V battery.

Features

1) Industry's highest power output

- Using a high-density layout for its new MOSFET, Mitsubishi Electric has achieved an industry-leading 4W power output under 3.6V operation, representing a 74% improvement over the company's predecessor, the RD02LUS2.
- High-power output extends radio transmission distances when using a 3.6V Li-ion 1-cell battery.

2) Top-level 65% drain efficiency

- The optimized MOSFET structure enables the RD04LUS2 to offer top-level 65% drain efficiency at 527 MHz.
- Low power consumption extends the available duration of radio transmission.

Main Specifications

Frequency	450 – 527MHz
Power output	4.0 – 4.9W
Drain efficiency	62 – 68 %
Drain supply voltage(Vds)	3.6V
Power input	400mW

Environmental Awareness

RD04LUS2 is compliant with the Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment (RoHS).

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About Mitsubishi Electric Corporation

With over 90 years of experience in providing reliable, high-quality products, Mitsubishi Electric Corporation (TOKYO: 6503) is a recognized world leader in the manufacture, marketing and sales of electrical and electronic equipment used in information processing and communications, space development and satellite communications, consumer electronics, industrial technology, energy, transportation and building equipment. Embracing the spirit of its corporate statement, Changes for the Better, and its environmental statement, Eco Changes, Mitsubishi Electric endeavors to be a global, leading green company, enriching society with technology. The company recorded consolidated group sales of 4,054.3 billion yen (US$ 39.3 billion*) in the fiscal year ended March 31, 2014. For more information visit http://www.MitsubishiElectric.com

*At an exchange rate of 103 yen to the US dollar, the rate given by the Tokyo Foreign Exchange Market on March 31, 2014