

**FOR IMMEDIATE RELEASE**

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## **Mitsubishi Electric Announces Sale of 12.5 V High Power MOSFET for Commercial 2-way Radios**

**Tokyo, June 17, 2010** – Mitsubishi Electric Corporation (TOKYO: 6503) announced today it will begin sample shipments of two new 12.5 V high-power metal oxide semiconductor field effect transistor (MOSFET) models on July 1, 2010. The two MOSFETs are designed for use in high-frequency power amplifier devices in commercial 2-way radios for 25 W and 50 W grade power transmission applications. Both models are available in VHF and UHF bands, and conform to surface mount technology (SMT) requirements.

### **Summary of Sale**

Model	Shipment date	Production
RD70HUF2	July 1, 2010	20,000 pieces/month
RD35HUF2	July 1, 2010	20,000 pieces/month

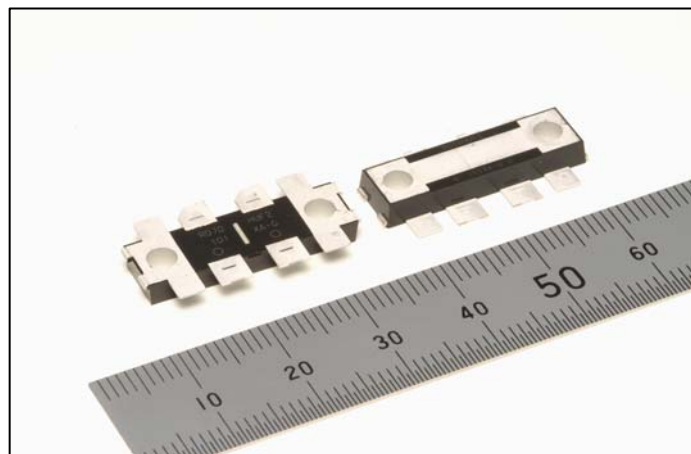
### **Aim of Sale**

Commercial 2-way radios are widely used in a variety of fields, including public institutions (e.g. police and fire departments), as well as in airports, taxis and event venues. Given the severe conditions that they are sometimes used in, such as heavy rain or near fire, these radios require a rugged structure and reliable wireless communication capability with high power output.

Meanwhile, manufacture of electronic equipment has mostly been automated by SMT, greatly contributing to the improvement of product quality and production efficiency. Power amplifiers installed in commercial 2-way radios, on

the other hand, are usually soldered manually. Mitsubishi Electric's new MOSFETs not only conform to SMT, but also achieve industry top-level power outputs with high drain efficiency<sup>1</sup>.

<sup>1</sup>: Rate of electricity converted to high frequency waves by amplifiers



RD70HUF2

## **Product Features**

### **1) High power output and high efficiency**

- RD70HUF2: high power of 75W at UHF and 84W at VHF, suitable for 50 W grade radios
- RD35HUF2: high power of 43W at UHF and 45W at VHF, suitable for 25 W grade radios
- High drain efficiency: 60% or more at UHF, 70% or more at VHF, contributing to the reduction of power consumption

### **2) Conforms to SMT, taking advantage of reflow soldering**

- Molded package enables reflow soldering
- Shipment by packing of tape and reel conforms to SMT placement equipment

## **For the Environment**

The models are compliant with *Restriction of the use of certain Hazardous Substances in electrical and electronic equipment (RoHS)*.

## **About Mitsubishi Electric**

With over 85 years of experience in providing reliable, high-quality products to both corporate clients and general consumers all over the world, 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. The company recorded consolidated group sales of 3,353.2 billion yen (US\$ 36.1 billion\*) in the fiscal year ended March 31, 2010. For more information visit <http://global.mitsubishielectric.com>

\*At an exchange rate of 93 yen to the US dollar, the rate given by the Tokyo Foreign Exchange Market on March 31, 2010

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