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**MITSUBISHI ELECTRIC ANNOUNCES SALE OF HIGH OUTPUT
InGaP HBT AMPLIFIER MGFS36E2527 FOR WiMAX TERMINALS**

Tokyo, October 3, 2006 – Mitsubishi Electric Corporation (President and CEO: Setsuhiro Shimomura) announced today it has finished development of a high output Indium Gallium Phosphide Heterojunction Bipolar Transistor (InGaP HBT)¹, and will begin sample shipment on December 15, 2006. The amplifiers are for WiMAX² terminals used in mobile and domestic markets, and are the smallest of its kind in the industry at the time of this release.

¹High frequency element often used in mobile handsets for its high efficiency operability

²Worldwide Interoperability for Microwave Access: a high-speed wireless communications system with a communication range of 50 km and a transmission speed of up to 75Mbps.

Summary of Sale

Product name	Model	Description	Price of sample	Sale date	Monthly production
InGaP HBT High output Amplifier	MGFS36E2527	f=2.5-2.7 GHz Po=27dBm Glp=32 dB EVM= 2.5%	1000 yen	Dec. 15	10,000 pieces/month

Point of Sale

During the spread of broadband communication services in recent years, WiMAX has gained attention for not only establishing both specifications IEEE802.16-2004 fixed line communications and IEEE802.16e-2005 for high-speed mobile communication, but also its ability to connect regions where laying fiber optic cable, etc, proves to be difficult. However, in order to retain the advantages of WiMAX and guarantee the quality of the wireless communication between the WiMAX terminal and the Base Transceiver Station (BTS), the industry has been trying to develop a high output transmission amplifier with low signal distortion.

Mitsubishi Electric to date has sold a Pre-WiMAX transmission module for business services that was developed in the United States. The sale of this new amplifier for WiMAX terminals capable of reducing transmission signal distortion is also the world's smallest transmission module with competitive high output

Product Features

1) Low distortion high output wireless communication

To produce strong wireless communication, it is necessary to reduce signal distortion while also strengthening output. Using the InGaP HBT device frequently used in mobile handsets, we were able to reduce Error Vector Magnitude (EVM) by 2.5% at 27 dBm³ by optimizing constructing of the device structure to fit the WiMAX Orthogonal Frequency Division Multiplexing (OFDM) modulation method while maintaining a competitive output of 27 dBm. It is unique in its application to both IEEE802.16-2004 (fixed line communication) and IEEE802.16e-2005 (mobile communication).

³An expression of electric power measured in milliwatts. 27 dBm=502mW

2) Built in peripheral circuit, reduced weight and size of WiMAX terminal

We developed the world's smallest high output amplifier (4.5mm x 4.5mm) by embedding the power detector (analyses the amplifier output) and step attenuator (controls amplifier output) in the module. The height has also been kept to 1 mm, so it can also be used in PC card terminals. The external matching circuit is also unnecessary because impedance of the input/output port is at the wireless device standard of 50 ohms. This reduces the number of parts and mounting area, and thus will reduce size and weight of the WiMAX terminal.

Future Developments

We plan to make an amplifier for 3.5 GHz and 2.3 GHz band by early fiscal 2008.

Main Specifications

Frequency Range	f=2.5~2.7GHz
Operating Voltage	Vc=6V、Vref=2.85V
EVM	2.5% standard at Po=27dBm
Transmission gain	32dB standard
Step Attenuator	Variability of 20 dB depending on voltage control
Power Detector	Changes amplifier electricity output to direct current (DC)

About Mitsubishi Electric

With over 80 years of experience in providing reliable, high-quality products to both corporate clients and general consumers all over the world, Mitsubishi Electric Corporation (TSE: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 3,604 billion yen (US\$ 30.8billion*) in the fiscal year ended March 31, 2006.

For more information visit <http://global.mitsubishielectric.com>

*At an exchange rate of 117 yen to the US dollar, the rate given by the Tokyo Foreign Exchange Market on March 31, 2006.