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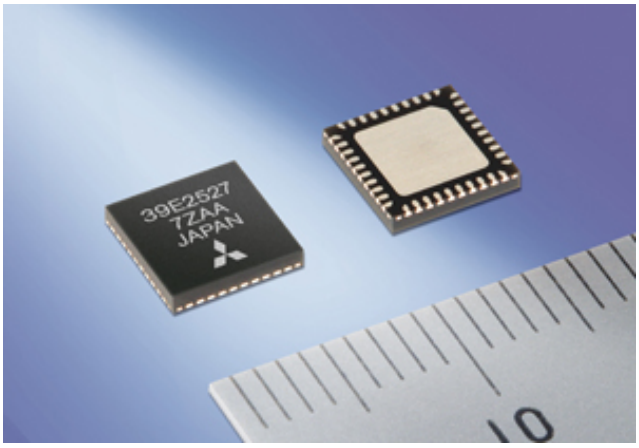
Mitsubishi Electric launches a power amplifier for WiMAX terminal applications



Mitsubishi Electric Corporation has launched a high power amplifier featuring InGaP HBTs (Heterojunction Bipolar Transistors) tailored specifically for WiMAX terminal applications.

The new device, part number MGFS39E2527, provides up to 30dBm of output power in the frequency range 2.5GHz to 2.7GHz.

MGFS39E2527 offers an integrated power detector for 1.1V at the amplifier output, while a step attenuator controls the output within a range of 18dB.

EVM (Error Vector Magnitude) is kept as low as 2.5% at 30dBm, while the total linear power gain is 40dB.

Integrated in a QFN package measuring 6mm x 6mm, the device operates with a supply voltage of 6V and a reference voltage of 2.85V
The MGFS39E2527 gives a 3dB increase in terms of output power compared with Mitsubishi Electric's model MGFS36E2527.

Together the MGFS39E2527 and MGFS36E2527 offer the designer a choice in output power when considering a PA for WiMAX Terminal applications.

For more information, or details on the full range of Mitsubishi Electric products available from Anglia, please call +44 (0)1945 474747 or email info@anglia.com

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www.anglia.com
info@anglia.com

Tel : +44 (0)1945 47 47 47
Fax : +44 (0)1945 47 48 49

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