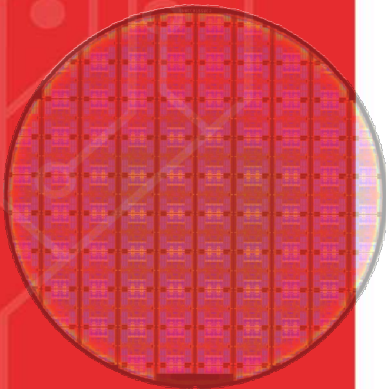
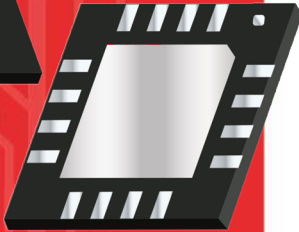




Taiwan Microelectronics Inc.



www.taiwanmicro.com.tw

TM2008

QFN 3x3mm-16L

WLAN 802.11.b/g/n High-Gain Power Amplifier MMIC

The TM2008 is a front-end Multi-Chip Module(MCM) and uses advanced Gallium Arsenide (GaAs) process. The front-end module(FEM) consists of a Low Noise Amplifier (LNA), and two RF single pole double throw (SPDT) Switches. This device makes it ideal for IEEE 802.11.b/g, *Bluetooth*, 2.4Ghz Audio/Video, Wireless Data Terminal and portable battery powered equipment. The LNA delivers +20dB Gain with low current consumption and low noise figure below 1.8 dB. And the RF SPDT Switch has very low insertion loss 0.4dB in the 2.4GHz to 2.5GHz range. The device is packaged in a QFN 3mm by 3mm 16L package.

Features

- Low Noise Amplifier with >+20 dB gain and <1.8dB NF
- Low RF switch Insertion Loss: 0.4dB @ 2.45GHz
- QFN 3x3 mm 16L with thermal ground ultra small plastic package
- Green, MSL 1

Applications

- Bluetooth™ PA (Class 1)
- WIFI IEEE 802.11.b.g
- Wireless Data Terminal
- Wireless Audio/Video
- Portable Battery Powered Equipment

Functional Block Diagram

