RF5824

3.3 V, DUAL-BAND WLAN **POWER AMPLIFIER MODULE**

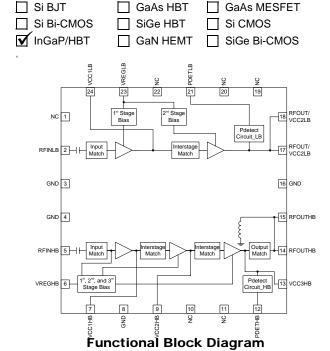
Typical Applications

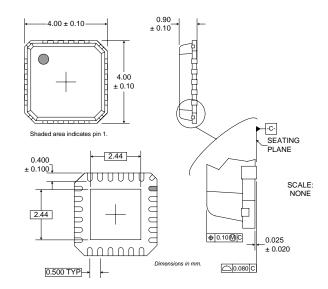
- Applications
- Single-Chip RF Power Amplifier Module
- IEEE802.11a/b/g and IEEE802.11n WLAN 2.5GHz and 5GHz ISM Bands Applications
 - Wireless LAN Systems
 - Portable Battery-Powered Equipment

Product Description

The RF5824 is a linear, medium-power, high-efficiency dual-band power amplifier module designed specifically for battery-operated WLAN applications such as PC cards, mini-PCI and compact flash applications. It is also designed to meet IEEE802.11a/b/g, IEEE802.11n, FCC, and ETSI requirements for operation within the 2.4GHz to 2.5GHz and 4.90GHz to 5.85GHz bands. The device is manufactured on an advanced InGaP GaAs Heterojunction Bipolar Transistor process, and has been designed for use as the final RF amplifier in both the 2GHz and 5GHz WLAN and other spread-spectrum transmitters. The device is packaged in a QFN, 24-pin, 4mmx4mmx0.9mm plastic package with back side ground. The RF5824 operates from a single supply and will be easily incorporated into WLAN and other designs with minimal external components.

Optimum Technology Matching® Applied





Package Style: QFN, 24-pin, 4mmx4mm

Features

- 5GHz Integrated Output Match
- 11a Current 155mA Typical
- 11g Current 120mA Typical
- Gain 27dB Typical for 11a and 11g
- EVM 3.5% TYP for 11g and 3.5% TYP for 11a (@ P_{OUT} 11a/g=17dBm)
- Single Supply Voltage 2.8V to 4.0V

Ordering Information

3.3V. Dual-Band WLAN Power Amplifier Module RF5824PCBA-41X Fully Assembled Evaluation Board

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Rev A0 061002 8-1 RF5824 Preliminary

Please contact RF Micro Devices Applications Engineering at (336) 678-5570 for more information.

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