RFMD

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Preliminary

RF5622

3.0V TO 4.5V, 2.4GHz TO 2.5GHz LINEAR POWER AMPLIFIER

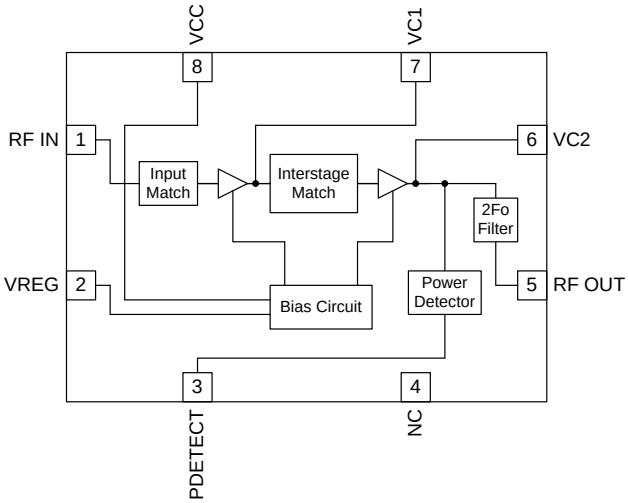
RoHS Compliant & Pb-Free Product
Package Style: QFN, 8-Pin, 2x2x0.45mm

Features

- Single Power Supply 3.0V to 4.5V
- 30dB Typical Gain, Input Matched to 50Ω
- 2.4GHz to 2.5GHz Frequency Range
- 11g P_{OUT}=+18dBm@3% Typ EVM, 95mA

Applications

- IEEE802.11b/g/n WLAN Applications
- 2.5GHz ISM Band Applications
- Commercial and Consumer Systems
- Portable Battery-Powered Equipment
- Spread-Spectrum and MMDS Systems



Functional Block Diagram

Product Description

The RF5622 is a linear, medium-power, high-efficiency, two-stage amplifier IC designed specifically for battery-powered WLAN applications such as PC cards, mini PCI, and compact flash applications. The device is manufactured on an advanced InGaP Gallium Arsenide Heterojunction Bipolar Transistor (HBT) process, and has been designed for use as the final RF amplifier in 2.5GHz OFDM and other spread-spectrum transmitters. The device is provided in a 2mmx2mm, 8-pin, QFN with a backside ground. The RF5622 is designed to maintain linearity over a wide range of supply voltage and power output. The RF5622 also has built-in power detector and incorporates the input and interstage matching components internally which reduces the component count used externally and makes it easier to incorporate on any design.

Ordering Information

RF5622	3.0V to 4.5V, 2.4GHz to 2.5GHz Linear Power Amplifier
RF5622PCBA-41X	Fully Assembled Evaluation Board

Optimum Technology Matching® Applied

☐ GaAs HBT	☐ SiGe BiCMOS	☐ GaAs pHEMT	☐ GaN HEMT
☐ GaAs MESFET	☐ Si BiCMOS	☐ Si CMOS	
☑ InGaP HBT	☐ SiGe HBT	☐ Si BJT	

7628 Thorndike Road, Greensboro, NC 27409-9421 · For sales or technical support, contact RFMD at (+1) 336-678-5570 or sales-support@rfmd.com.

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at (336) 678-5570
for more information.

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