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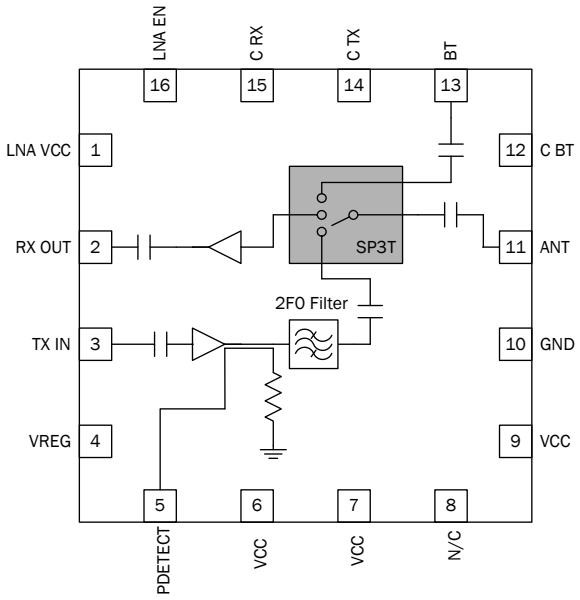
Proposed

RF5725

3.3V, SINGLE-BAND FRONT-END MODULE

RoHS Compliant & Pb-Free Product
Package Style: QFN, 16-pin, 3mmx3mmx0.5mm



Functional Block Diagram

Features

- Single Module Radio Front-End
- Single Supply Voltage 3.0V to 5V
- Integrated 2.5GHz b/g Amplifier LNA, TX/RX Switch, P_{DETECT} Coupler
- P_{OUT}=17dBm, 11g, OFDM at <4% EVM, 21dBm 11b Meeting 11b Spectral Mask

Applications

- IEEE802.11b/g WLAN Applications
- Single-Chip RF Front-End Module
- 2.5GHz ISM Bands Applications
- Wireless LAN Systems
- Portable Battery-Powered Equipment
- Opt. *Bluetooth*™ Sharing of Single Antenna Port

Product Description

The RF5725 is a single-chip integrated front-end module (FEM) for high performacne WLAN applications in the 2.4GHz to 2.5GHz ISM band. This FEM greatly reduces the number of external components, minimizing footprint and assembly cost of the overall 802.11b/g solution. The RF5725 has an integrated b/g power amplifier, LNA, a Coupler Power detector, and TX filtering. It also is capable of switching between WLAN RX, WLAN TX, and BTH RX/TX operations. This device is manufactured using GaAs HBT and pHEMT processes on a 3mmx3mmx0.5mm 16-pin QFN package. This module meets or exceeds the RF front-end needs of 802.11b/g WLAN RF systems.

Ordering Information

RF5725	3.3V, Single-Band Front-End Module
RF5725PCBA-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	

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**Please contact
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