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Proposed

RFFM3482Q

2.4GHz TO 2.5GHz, AUTOMOTIVE WiFi FRONT END MODULE

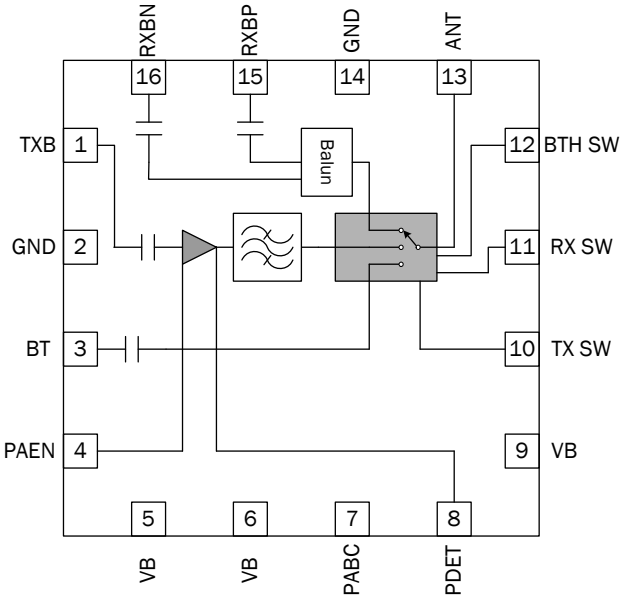
Package Style: QFN, 16-pin, 3mmx3mmx0.45mm

Features

- Single Voltage Supply 3.3V to 4.2V
- Integrated 2.5GHz b/g/n Amplifier, RX Balun and TX/RX Switch and Directional Power Detector
- P_{OUT}=17dBm, 11g, OFDM at ≤2.4% EVM and P_{OUT}=21.5dBm, Meeting 11b Mask

Applications

- Automotive WiFi



Functional Block Diagram

Product Description

The RFFM3842Q FEM is a single-chip integrated front end module (FEM) for automotive WiFi. The FEM addresses the need for aggressive size reduction for a typical 802.11b/g/n front end design and greatly reduces the number of components outside of the core chipset. The front end module has integrated b/g/n power amplifier, directional power detector, RX balun, and some TX filtering. It is also capable of switching between WiFi RX, WiFi TX and BTH RX/TX operations. The device is provided in a 3mm x 3mm x 0.45mm, 16-pin package. This module meets or exceeds the RF front end needs of 802.11b/g/n WiFi RF systems.

Ordering Information

RFFM3482QTR13X	Standard 1 piece
RFFM3482QSQ	Standard 25 piece bag
RFFM3482QSR	Standard 100 piece bag
RFFM3482QTR7	Standard 2500 piece reel
RFFM3482QPCK-41X	Fully Assembled Evaluation Board and 5 loose sample pieces

Optimum Technology Matching® Applied

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

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