

TQM7M6018

Dual-Broadband Power Amplifier Module



Applications

- Band 1,2,5,8,25,26 WCDMA handsets / data cards
- BC 1/0 CDMA/EVDO handsets / data cards
- HSDPA/HSUPA/HSPA+ applications

Product Features

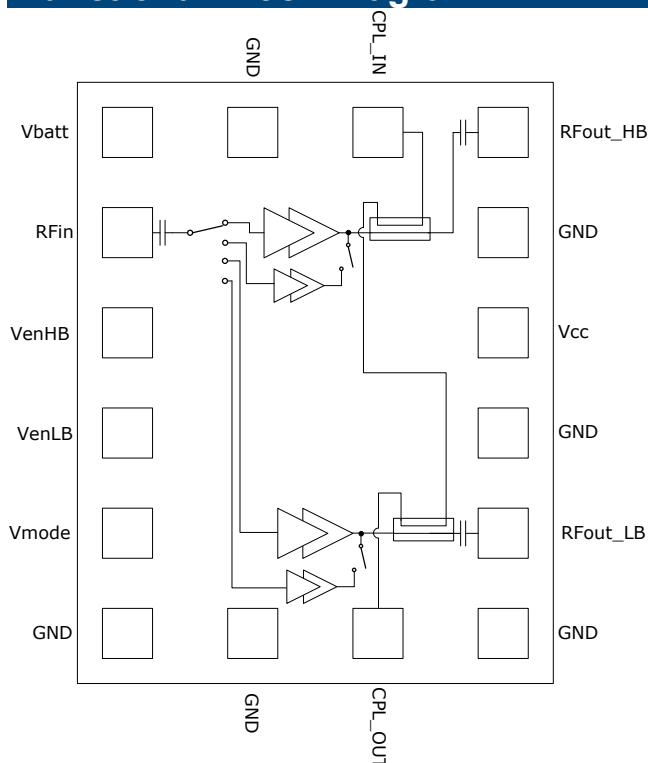
- Integrated high efficiency dual-broadband two gain state power amplifier, V_{REG} circuitry, input band select switch and directional coupler
- Small Size = 4.0 mm x 3.0 mm
- Low Quiescent Current in LPM
- High Max Power PAE
- No External Voltage Regulation Required
- APT (Average Power Tracking) capable

General Description

The TQM7M6018 PA Module integrates two high efficiency BiHEMT power amplifiers, input band select switch, directional coupler and Vreg circuitry into a compact 4.0 mm x 3.0 mm package. TriQuint's CuFlip® assembly technology and BiHEMT GaAs process provides a compact, low cost solution optimized for the Qualcomm WTR2605 transceiver with state-of-the-art HPM PAE.

The TQM7M6018 is a power amplifier module for Bands 1, 2, 5, 8, 25 and 26 for use with WCDMA and CDMA modulations. As a result of the combination of high performance, low cost and small size it is well suited for both mobile handset and data card applications.

Functional Block Diagram



Electrical Specifications

Parameter	B 1	B 2	B 5	B 8	
Max P_{OUT}	28.3	28.3	27.0	28.0	dBm
HPM Pmax PAE*	45				%
Rx Noise (typ)	-138	-136	-135	-135	dBm/Hz
HPM Gain	27				dB

*Note: Typical performance for WCDMA Rel99, $V_{CC}=3.4VDC$, $V_{EN}=HIGH$, $T_C=25^{\circ}C$. *PAE measured at required V_{cc} for Rel99 ACLR1 \leq 40dBc.*

Ordering Information

Part No.	Description
TQM7M6018	Dual-Broadband PAM

Standard T/R size = 2,500 pieces on a 13" reel.