Applications

- BC0 & BC1 CDMA/EVDO handsets / data cards
- Band 2 & 5 WCDMA handsets / data cards
- HSDPA/HSUPA/HSPA+ applications

Product Features

- Integrated high efficiency dual-band two gain state power amplifier, V_{REG} circuitry, input band select switch and directional coupler
- Multi-Band coverage
 - o High Band 2,25,BC1 (1850-1915MHz)
 - o Low Band 5,26, and BC0 (814-849MHz)
- 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 TQM7M6025 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 TQM7M6025 is a power amplifier module for Bands 2, 25 & 5, 26 for use with WCDMA and BC0 and BC1 for 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.



Electrical Specifications

Parameter	Band 2	Band 5
HPM P _{OUT}	28.6 dBm	28.0 dBm
ACLR (5 MHz offset)	-40 dBc	-40 dBc
ACLR (10 MHz offset)	-50 dBc	-50 dBc
HPM Pmax PAE*	45%	45%
Rx Noise	-136 dBm/Hz	-135 dBm/Hz
HPM Gain	27dB	

Note: Typical performance for WCDMA Rel99, V_{CC} =3.4VDC, V_{EN} =HIGH, T_C =25°C, *PAE measured at required Vcc for Rel99 ACLR1≤40dBc.

Ordering Information

Part No.	Description	
TQM7M6025	2-in-1 Power Amplifier Module	
Standard T/R size = $2,500$ pieces on a 13" reel.		

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