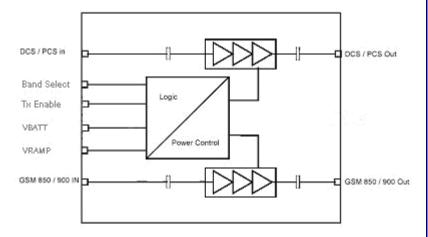


3V Quad-Band GSM850/GSM900/DCS/PCS Power Amplifier Module

Functional Block Diagram



Product Description

The TQM7M5022 is a ultra-small (5x5mm), GSM/EDGE Polar PAM for handset applications. This module has been optimized for excellent EDGE efficiency, Rx band noise performance, ACPR and EVM in an open loop polar modulation environment at EDGE class E2+ operation while maintaining high GSM/GPRS efficiency.

High reliability is assured by utilizing TriQuint's 3rd generation InGaP HBT technology and by TriQuint's proven module design techniques. The low profile, ultra-small package is enabled via $TriQuint's\ CuFlip^{TM}$ technology.

Electrical Specifications

| Parameter | 850 Band | 900 Band | DCS Band | PCS Band | Units |
|------------|----------|----------|----------|----------|-------|
| | Тур | Тур | Тур | Тур | |
| GSM Pout | 35 | 35 | 33 | 33 | dBm |
| Efficiency | 55 | 55 | 50 | 50 | % |
| Pin | 6 | 6 | 6 | 6 | dBm |
| EDGE Pout | 29 | 29 | 28 | 28 | dBm |
| Efficiency | 27 | 27 | 27 | 27 | % |
| Pin | 6 | 6 | 6 | 6 | dBm |

Features

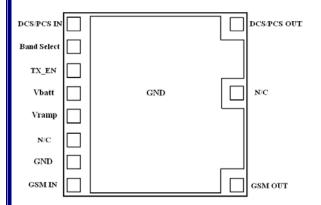
- Ultra-small 5x5mm form factor
- Halogen-Free, Antimony-Free
- GSM/EDGE Multi-Mode Capability
- 87 dBm Typical Rx Noise
- 38 dBc Typical ACPR (200KHz)
- - 66 dBc Typical ACPR (400 KHz)
- 76 dBc Typical ACPR (600 KHz)
- 1% Typical EVM rms
- > 50 dB Typical Dynamic Range
- GPRS Class 12
- Internally Matched Input and Output
- RoHS, MSL260C pending

Applications

- GSM/EDGE/WEDGE Handsets
- GSM/EDGE/WEDGE Wireless Cards

Package Style

Top View



Package Size: LGA 5 x 5 x 1 mm

Data Sheet

