

Preliminary DATA SHEET

GWQ5929A: 4900 to 5925 MHz High Linearity LTE/ Wi-Fi Power Amplifier

Product overview

GWQ5929A is a two-stage HBT linear power amplifier for business drone application. It works at 4900~5925 MHz. This PA can deliver 29 dBm MCS0 output power, and 24 dBm with EVM 3.5 % for MCS9 with 100 M NR signal at 24 dBm output power, and power gain higher than 31 dB.

Key Features

- 4900 MHz – 5925 MHz
- 31 dB Gain
- Psat 34dBm
- 40% PAE at 33d Bm output power
- 29 dBm MCS0 HT20 Spectral Mask Compliance
- 3.5 % EVM at 24 dBm with 100 M NR signal
- Input/output internally matched to 50 Ohm
- Integrated temperature compensation circuits
- Compact and low-cost 4 mm x 4 mm QFN package (MSL3, 260 °C per JEDEC J-STD-020)
- ESD Level: HBM 1000 V; CDM 1000 V
- ROHS compatible

Applications

- Wi-Fi Access points
- LTE-U Picocell
- FDD and TDD wireless systems
- Active antenna array and massive MIMO
- Customer Premises Equipment (CPE)
- ISM application
- Point-to-Point backhaul

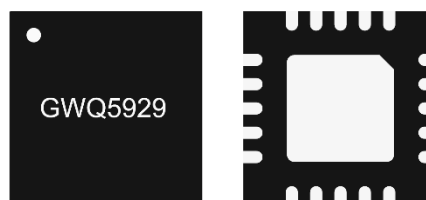


Figure 1. 20Pin 4 x 4 mm QFN Package

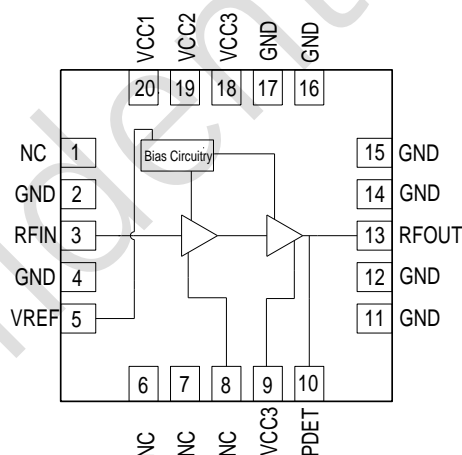


Figure 2. GWQ5929A Function Block Diagram

Ordering Information

Part No.	Description
GWQ5929A	4900-5925 MHz Wi-Fi linear PA, 7' Reel with 1500 pcs