

Preliminary DATA SHEET

GWM1529: 1300 to 1500 MHz High Linearity LTE/ Wi-Fi Power Amplifier

Product overview

GWM1529 is a two-stage HBT linear power amplifier for business drone application. It works at 1300~1500 MHz. This PA can deliver 29 dBm MCS0 output power, and 24 dBm with EVM -35 dB for MCS9 and -50dBc ACPR for 20M LTE at 24 dBm output power, and power gain higher than 28 dB.

Key Features

- 1300 MHz – 1500 MHz
- 28 dB Gain
- 35dBm P3dB
- 16 % PAE at 24 dBm output power
- 29 dBm MCS0 HT20 Spectral Mask Compliance
- 24 dBm MCS9, HT40 -41 dB Dynamic EVM
- Below -48 dBc ACPR at 24 dBm output power LTE
- Input/output internally matched to 50 Ohm
- Integrated temperature compensation circuits
- Compact and low-cost 5 mm x 5 mm LGA package (MSL3, 260°C per JEDEC J-STD-020)
- ESD Level: HBM 1000 V; CDM 1000 V
- ROHS compatible

Applications

- Wi-Fi Business Drone
- FDD and TDD wireless systems
- Active antenna array and massive MIMO
- Customer Premises Equipment (CPE)

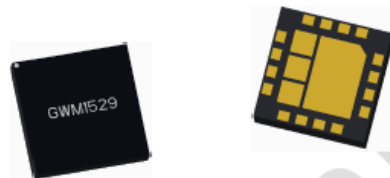


Figure 1. 16 Pad 5 x 5 mm Laminate Package

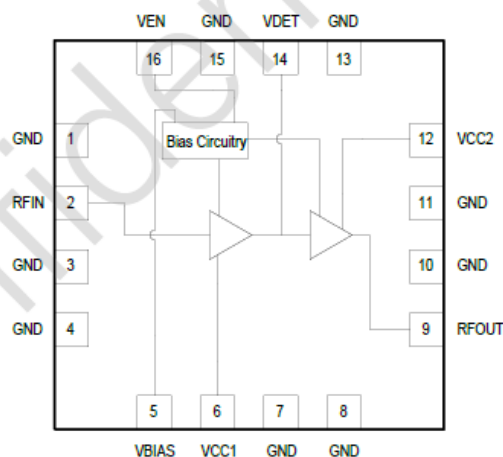


Figure 2. GWM1529 Function Block Diagram

Table 1. Pin-to-Pin Compatible PA Family

Part No.	Frequency (MHz)
GWM2529	2400-2500
GWM5829	4900-5800

Ordering Information

Part No.	Description
GWM1529	1300-1500 MHz Wi-Fi linear PA, 7" Reel with 1500 pcs