

Preliminary DATA SHEET

GDM2428: 2300 to 2400MHz High Efficiency 28dBm Power Amplifier

Product overview

GDM2428 is a three-stage GaAs HBT general purpose power amplifier working at 2300~2400MHz Bands 40 with on-chip PA enable controller and temperature compensation circuits. This high-efficiency and DPD-friendly PA can deliver up to 28dBm average output power and 37dBm peak power using 20MHz LTE signal (9.5dB PAR @ 0.01% CCDF). The product input and output are both internally matched to 50Ohm.

Key Features

- 2300MHz – 2400MHz
- 34dB Gain
- 27% PAE at 28dBm output power
- Below -36dBc ACPR at 28dBm output power
- Higher than 37dBm peak power
- Wide instantaneous BW DPD friendly design
- Input/output internally matched to 50Ohm
- On-chip PA enable controller and temperature compensation circuits
- Compact and low-cost 5mm x 5mm LGA package (MSL3, 260°C per JEDEC J-STD-020)
- ESD Level: HBM 1000V; CDM 1000V

Applications

- FDD and TDD 2G/3G/4G LTE/5G NR systems
- 3GPP bands 40 small-cell base stations
- Driver amplifier for micro-base and macro-base stations
- Active antenna array and massive MIMO
- Customer Premises Equipment (CPE)

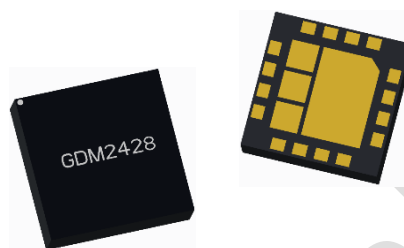


Figure 1. 16 Pad 5 x 5 mm Laminate Package

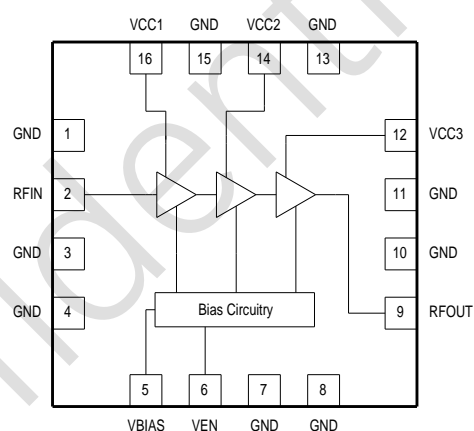


Figure 2. GDM2428 Function Block Diagram

Table 1. Pin-to-Pin Compatible PA Family

Part Num	Frequency (MHz)	3GPP Band
GDM0728	728-821	B20, n20
GDM0828	869-894	B5, n5
GDM0928	925-960	B8, n8
GDM1828	1805-1880	Band 3, n3
GDM2128	2110-2170	Band 1, n1
GDM2628	2496-2690	Band 41, n 41
GDM3528	3300-3600	Band 42, n 78
GDM3728	3500-3800	Band 42, n 78
GDM4028	3700-4000	C Band, n 77
GDM5028	4600-5000	n79

Ordering Information

Part No.	Description
GDM2428	2300-2400MHz High efficiency PA, 7' Reel with 1500pcs