

Preliminary DATA SHEET

GDM0928: 869 to 960MHz High Efficiency 28dBm

Power Amplifier

Product overview

GDM0928 is a two-stage HBT general purpose power amplifier working at 869~960 MHz (Band5&8) 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 (8.5dB PAR @ 0.01% CCDF). The product input and output are both internally matched to 500hm.

Key Features

- 869MHz 960MHz
- 30dB Gain
- 33% PAE at 28dBm output power
- Below -32dBc ACPR at 28dBm output power
- Higher than 37dBm peak power
- Wide instantaneous BW DPD friendly design
- Input/output internally matched to 500hm
- 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 band 5&8 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

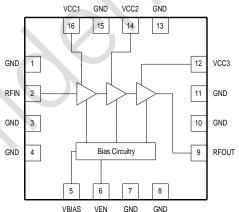


Figure 2. GDM0928 Function Block Diagram

Table 1. Pin-to-Pin Compatible PA Family

Part Num	Frequency (MHz)	3GPP Band
GDM0628	617-652	Band 71, n71
GDM0728	728-821	Band 12,13,14,20
GDM1828	1805-1880	Band 3
GDM2128	2110-2170	Band 1
GDM2428	2300-2400	Band 40
GDM2628	2496-2690	Band 41, n41
GDM3528	3300-3600	Band 42, n78
GDM3728	3400-3800	Band 42, n78
GDM4028	3700-4000	C-band
GDM5028	4600-5000	n79

Ordering Information

Part No.		Description	
GDM0928	869-960MH	z High efficiency PA, 7' Reel with	
	1500pcs		