

Preliminary DATA SHEET

GDM4628A: 4200 to 4800MHz High Power 35dBm Power Amplifier

Product overview

GDM4628A is a three-stage HBT general purpose power amplifier working at 4200~4800 MHz (C-band, n77) with on-chip PA enable controller and temperature compensation circuits. This PA can deliver up to 35dBm CW output saturated power. The product input and output are both internally matched to 50Ohm.

Key Features

- 4200MHz – 4800MHz
- 29dB Gain @ P_{sat}
- 35dBm CW output power
- 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
- C-band 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.

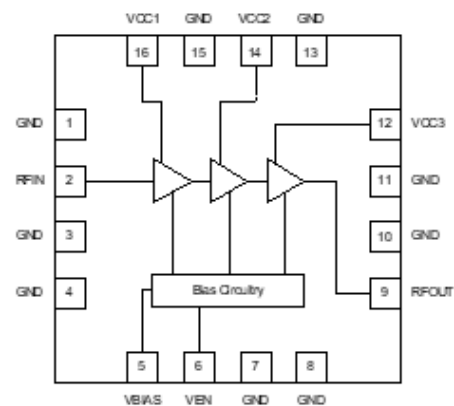


Figure 2. GDM4628A Function Block Diagram.

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
GDM2428	2300-2400	Band 40, n40
GDM2628	2496-2690	Band 41, n41
GDM3528	3300-3600	Band 42, n78
GDM3728	3400-3800	Band 42, n78
GDM4028	3700-4000	C-band, n77
GDM5028	4600-5000	n79

Ordering Information

Part No.	Description
GDM4628A	4200-4800MHz High efficiency PA, 7' Reel