



Preliminary DATA SHEET

GSM1324: 1200 to 1400MHz High Linearity 24dBm Broadband Power Amplifier

Product overview

GSM1324 is a two-stage HBT small cell power amplifier for indoor cellular base stations. It covers low band from 1200MHz to 1400MHz. This PA can deliver 23dBm 4G LTE linear output power with ACPR below -50dBc for 20M LTE application and power gain higher than 27 dB

Key Features

- 1200MHz – 1400MHz
- 27dB Gain
- 11% PAE at 23dBm output power
- Below -50dBc ACPR at 23dBm linear output power
- Input/output internally matched to 50Ohm
- Integrated temperature compensation circuits
- Compact and low-cost 3mm x 3mm LGA package (MSL3, 260°C per JEDEC J-STD-020)
- ESD Level: HBM 1000V; CDM 1000V
- ROHS compatible

Applications

- TDD/FDD 4G LTE and 5G NR systems
- Power amplifier for micro-base stations
- Active antenna array and massive MIMO
- Distributed Antenna System (DAS)
- Customer Premises Equipment (CPE)



Figure 1. 16 Pad 3 x3 mm Laminate Package

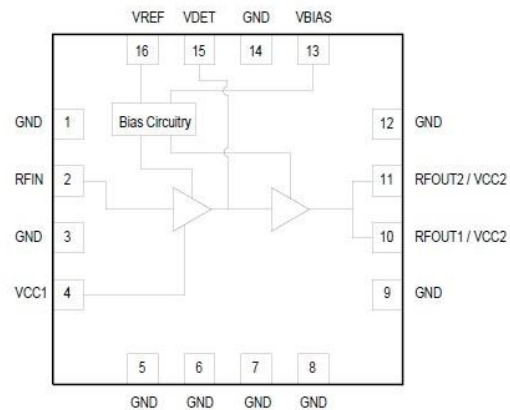


Figure 2. GSM1324 Function Block Diagram

Table 1. Pin-to-Pin Compatible PA Family

Part Num	Frequency (MHz)	3GPP Band
GSM0520	500-700	
GSM1320	1180-1390	
GSM1324	1200-1400	
GSM1520	1450-1660	
GSM1524	1465-1565	
GSM2620	2496-2960	
GSM3520	3300-3600	

Ordering Information

Part No.	Description
GSM1324	1200-1400MHz 24dBm linear PA, 7' Reel with 1500pcs