

Preliminary DATA SHEET

GSM5024: 4600 to 5000MHz High Linearity 24dBm Power Amplifier

Product overview

GSM5024 is a Three-stage HBT small cell power amplifier for indoor cellular base stations. It works at 4600~5000 MHz (n79). This PA can deliver 23dBm output power with 100M NR below -45 dBc and power gain higher than 30dB

Key Features

- 4600MHz – 5000MHz
- 30dB Gain
- 11% PAE at 24dBm output power
- Below -45dBc ACPR at 23dBm output power w/o DPD
- Input/output internally matched to 50Ohm
- Integrated 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
- ROHS compatible

Applications

- 3GPP 5G NR n79
- Driver amplifier for micro-base and macro-base stations
- Active antenna array and massive MIMO
- Customer Premises Equipment (CPE)

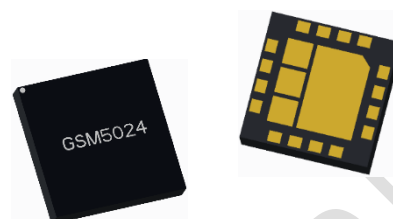


Figure 1. 16 Pad 5 x 5 mm Laminate Package

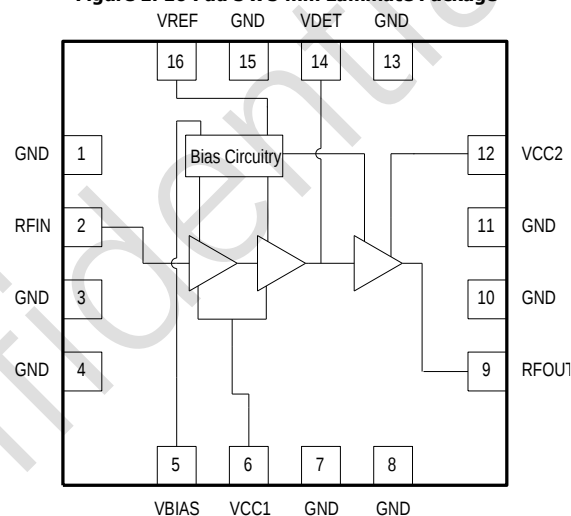


Figure 2. GSM5024 Function Block Diagram

Table 1. Pin-to-Pin Compatible PA Family

Part Num	Frequency (MHz)	3GPP Band
GSM0724	728-821	Bands n12, n20
GSM0824	869-894	Band 5, n5
GSM0924	925-960	Band 8, n8
GSM1824	1805-1880	Band 3, n3
GSM2124	2110-2170	Band 1, n1
GSM2424	2300-2400	Band 40, n40
GSM2624	2496-2690	Band 41, n41
GSM3524	3300-3600	Band 42,48, n78
GSM3724	3600-3800	Band 43, 48, n78
GSM5024	4600-5000	n77, C Band

Ordering Information

Part No.	Description
GSM5024	4600-5000MHz 24dBm linear PA, 7' Reel with 1500pcs