

Preliminary DATA SHEET

GSM2620: 2496 to 2690MHz High Linearity +20dBm Wideband Power Amplifier

Product overview

GSM2620 is a two-stage HBT power amplifier for indoor/outdoor cellular base stations. It covers 5G band from 2496MHz to 2690MHz. This PA can deliver +20dBm 4G LTE linear output power with ACPR below -50dBc and -48dBc for 100MHz IBW 5G NR application with power gain higher than 32 dB

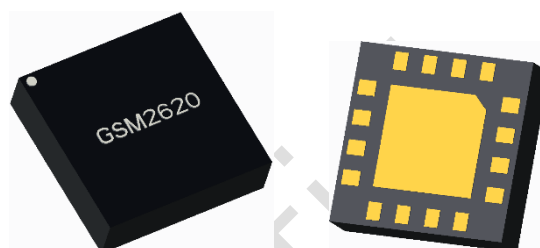


Figure 1. 16 Pad 3 x 3 mm Laminite Package

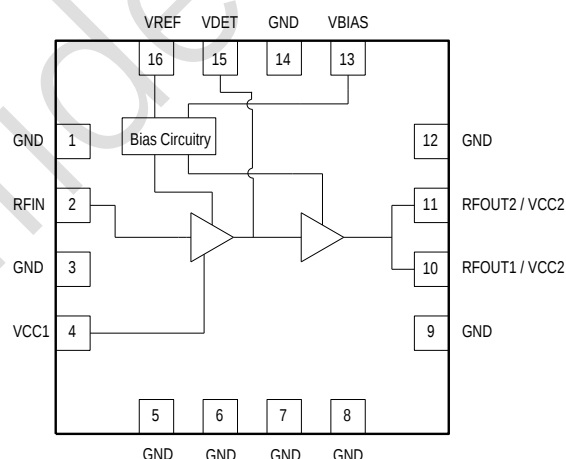


Figure 2. GSM2620 Function Block Diagram

Key Features

- 2496MHz – 2690MHz
- 32dB Gain
- Low Icq 150mA
- 10% PAE at 20dBm output power
- < -50dBc ACPR at +20dBm linear output power
- Support 200MHz 5G NR IBW
- 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)

Table 1. Pin-to-Pin Compatible PA Family

Part Num	Frequency (MHz)	3GPP Band
GSM0520	500-700	
GSM1320	1180-1390	
GSM1520	1450-1660	
GSM1820	1710-2170	
GSM2620	2496-2960	
GSM3520	3300-3600	

Ordering Information

Part No.	Description
GSM2620	2496-2690MHz 20dBm linear PA, 7' Reel with 1500pcs