

Preliminary DATA SHEET

GSM0520: 500 to 700MHz High Linearity 20dBm wideband Power Amplifier

Product overview

GSM0520 is a two-stage HBT small cell power amplifier for indoor cellular base stations. It covers low band from 500MHz to 700MHz. This PA can deliver 20dBm 4G LTE linear output power with ACPR below -50dBc and -48dBc for 100MHz IBW 5G NR application and power gain higher than 28 dB

Key Features

- 500MHz – 700MHz
- 28dB Gain
- Below -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)

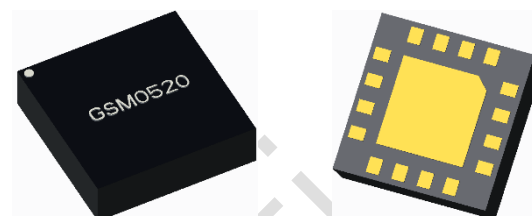


Figure 1. 16 Pad 3 x 3 mm Laminate Package

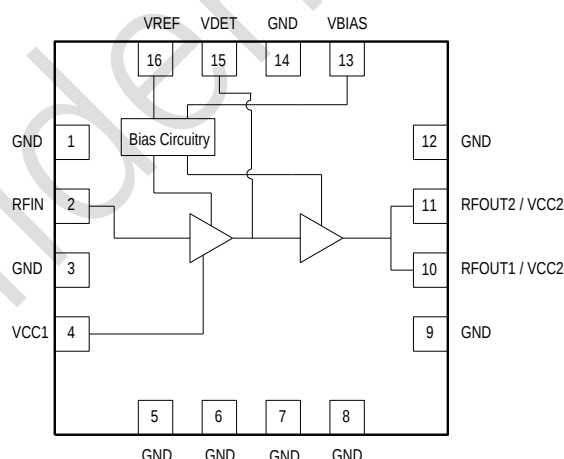


Figure 2. GSM0520 Function Block Diagram

Table 1. Pin-to-Pin Compatible PA Family

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

Ordering Information

Part No.	Description
GSM0520	500-700MHz 20dBm linear PA, 7' Reel with 1500pcs