

## Preliminary DATA SHEET

# GCM2627: 2300 to 2690MHz High Linearity 27dBm Power Amplifier

### Product overview

GCM2627 is a two-stage HBT small cell power amplifier for indoor cellular base stations. It works at 2300~2690 MHz (band 40,41, n40,41). This PA can deliver 27dBm LTE output power with ACPR below -50dBc and power gain higher than 25dB

### Key Features

- 2300MHz – 2690MHz
- 26dB Gain
- 11% PAE at 27dBm output power
- Below -48dBc ACPR at 27dBm Linear output power with 100M 5G NR signal
- Input/output internally matched to 50Ohm
- Integrated temperature compensation circuits
- Compact and low-cost 7mm x 7mm LGA package
- (MSL3, 260°C per JEDEC J-STD-020)
- ESD Level: HBM 1000V; CDM 1000V
- ROHS compatible

### Applications

- FDD and TDD 2G/3G/4G LTE/5G NR systems
- 3GPP band 40, 41, n40, 41 for base-station application
- Driver amplifier for micro-base and macro-base stations
- Active antenna array and massive MIMO
- Customer Premises Equipment (CPE)

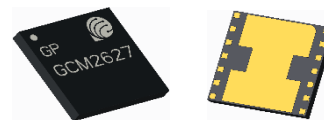


Figure 1. 14pin 7 x 7 mm Laminate Package

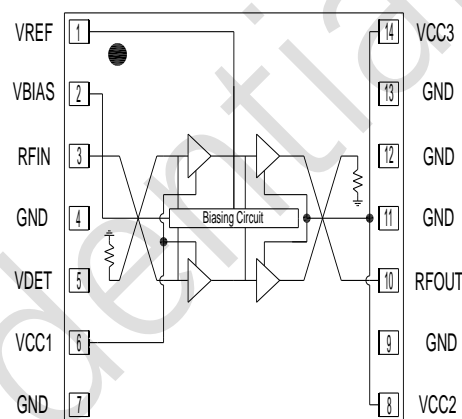


Figure 2. GCM2627 Function Block Diagram

Table 1. Pin-to-Pin Compatible PA Family

Part Num	Frequency (MHz)	3GPP Band
GCM1828	1710-2170	Band 1,2,3, n1,2,3
GCM2627	2300-2690	Band 40, 41, n40, 41
GCM3527	3300-3600	n78

### Ordering Information

Part No.	Description
GCM2627	2300-2690MHz 27dBm linear PA, 7' Reel with 1500pcs