

## Preliminary DATA SHEET

# GSM3524: 3300 to 3600MHz High Linearity 24dBm Power Amplifier

### Product overview

GSM3524 is a Three-stage HBT small cell power amplifier for indoor/outdoor cellular base stations. It works at 3300~3600 MHz (B42,B48, n78). This PA can deliver 24dBm output power with 100M NR below -48 dBc and power gain higher than 33dB

### Key Features

- 3300MHz – 3600MHz
- 32dB Gain
- 11% PAE at 24dBm output power
- Below -48dBc ACPR at 24dBm linear output power
- 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 4G LTE B42,B48 and 5G NR n78
- Driver amplifier for micro-base and macro-base stations
- Active antenna array and massive MIMO
- Customer Premises Equipment (CPE)

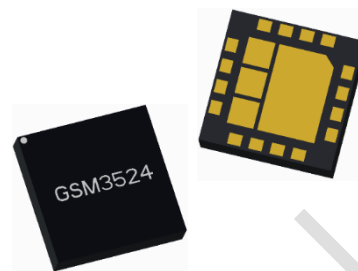


Figure 1. 16 Pad 5 x 5 mm Laminate Package

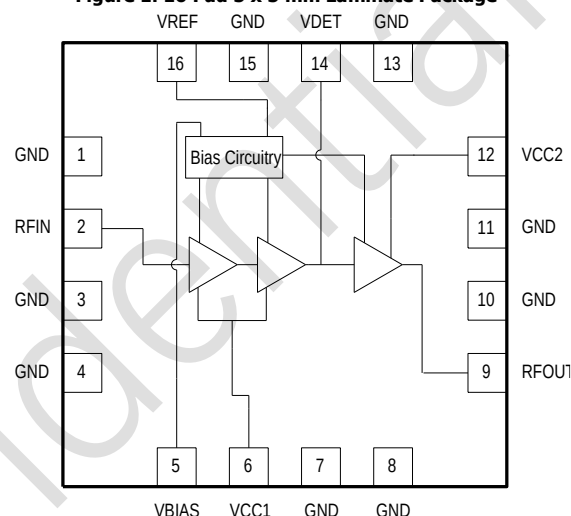


Figure 2. GSM3524 Function Block Diagram

Table 1. Pin-to-Pin Compatible PA Family

| Part Num | Frequency (MHz) | 3GPP Band            |
|----------|-----------------|----------------------|
| GSM0624  | 617-652         | Band 71, n71         |
| GSM0724  | 728-821         | Band 12,20, 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         |
| GSM3724  | 3600-3800       | Band 43, 48, n78     |
| GSM4024  | 3700-3980       | n77, C Band          |
| GSM5024  | 4600-5000       | n79                  |

### Ordering Information

| Part No. | Description                                        |
|----------|----------------------------------------------------|
| GSM3524  | 3300-3600MHz 24dBm linear PA, 7' Reel with 1500pcs |