

Preliminary DATA SHEET

GSM0724: 728 to 821MHz High Linearity 24dBm Power Amplifier

Product overview

GSM0724 is a two-stage HBT small cell power amplifier for indoor/outdoor cellular base stations. It works at 728~821MHz (band B12, B20, n12, n20). This PA can deliver 24dBm output power with ACPR below -50dBc and power gain higher than 29 dB

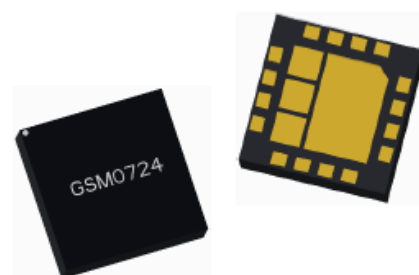


Figure 1. 16 Pad 5 x 5 mm Laminate Package

Key Features

- 728MHz – 821MHz
- 29dB Gain
- 13% PAE at 24dBm output power
- Below -50dBc ACPR at 24dBm 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

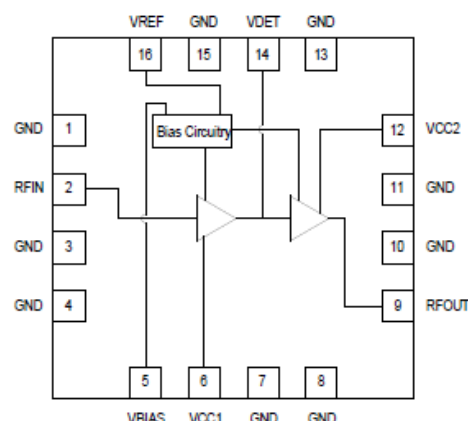


Figure 2. GSM0724 Function Block Diagram

Applications

- FDD 5G NR systems
- NR operating bands n20 in FR1
- Power amplifier for micro-base stations
- Active antenna array and massive MIMO
- Customer Premises Equipment (CPE)

Table 1. Pin-to-Pin Compatible PA Family

Part Num	Frequency (MHz)	3GPP Band
GSM0624	617-652	Band 71, n71
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
GSM4024	3700-3980	n77, C Band
GSM5024	4600-5000	n79

Ordering Information

Part No.	Description
GSM0724	728-821MHz 24dBm linear PA, 7' Reel with 1500pcs