

Preliminary DATA SHEET

GSQ2040: 1000 to 2000MHz 10Watts High Power Amplifier

Product overview

GSQ2040 is a two-stage HBT high power amplifier for indoor/outdoor wireless application such as RFID、Lora、global position system application. It works for L band from 1000MHz to 2000MHz and can deliver 40dBm CW output peak power with 33dB power gain, and high efficiency. The GSQ2040 input port is internally matched 50ohm and integrated temperature compensation circuits within a tiny 5x5 lead frame package.

Key Features

- 1000MHz – 2000MHz
- 33dB Gain
- 65% PAE at 39.5dBm output power@Vcc2=9V
- Above 40 dBm output peak power
- Integrated temperature compensation circuits
- Compact and low-cost 5mm x 5mm QFN package (MSL3, 260°C per JEDEC J-STD-020)
- ESD Level: HBM 1000V; CDM 1000V
- ROHS compatible

Applications

- Wireless systems
- Power amplifier Module
- Customer Premises Equipment (CPE)
- Automatic meter readers

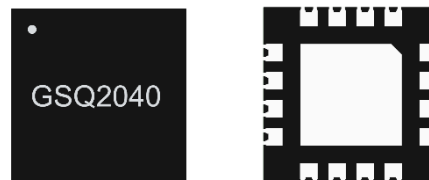


Figure 1. 16pin 5 x 5 mm QFN Package

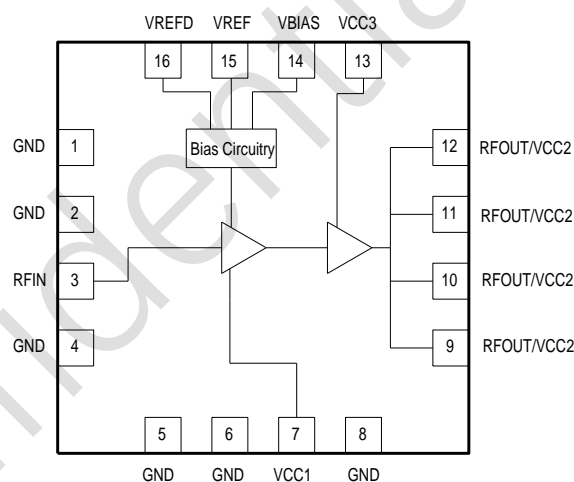


Figure 2. GSQ2040 Function Block Diagram

Table 1. Pin-to-Pin Compatible PA Family

Part Num	Frequency (MHz)	3GPP Band
GSQ2040	1000-2000MHz	

Ordering Information

Part No.	Description
GSQ2040	1000-2000MHz 10W Power Amplifier, 13' Reel with 1500pcs