

Preliminary DATA SHEET

GSQ5110: 300 to 1400MHz UHF 4Watts High Power Amplifier

Product overview

GSQ5110 is a two-stage HBT high power amplifier for indoor/outdoor wireless application such as RFID or Lora system application. It works for 900MHz and can deliver 36dBm output peak power with 31dB power gain, and excellent linearity. The GSQ5110 input port is internally matched 50Ohm and integrated temperature compensation circuits within a tiny lead frame package.

Key Features

- 300MHz – 1400MHz
- 31dB Gain
- 50% PAE at 36dBm output power
- 36dBm output peak power
- Integrated temperature compensation circuits
- Compact and low-cost 3mm x 3mm QFN package (MSL3, 260°C per JEDEC J-STD-020)
- ESD Level: HBM 1200V; CDM 1200V
- ROHS compatible

Applications

- wireless systems
- Power amplifier Module
- Customer Premises Equipment (CPE)
- Automatic meter readers
- RFID Readers

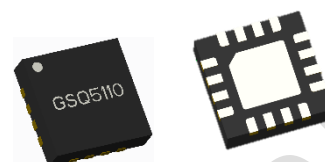


Figure 1. 16pin 3 x 3 mm QFN Package

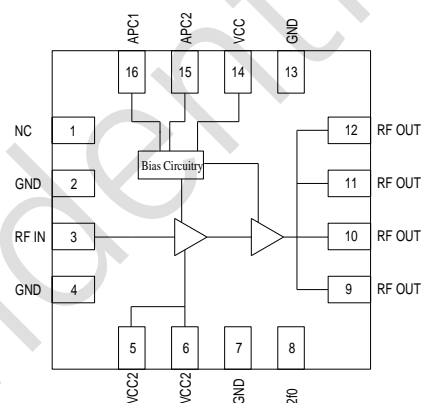


Figure 2. GSQ5110 Function Block Diagram

Table 1. Pin-to-Pin Compatible PA Family

Part Num	Frequency (MHz)	3GPP Band
GSQ5110	400-1400MHz	n5,8,20,28,71

Ordering Information

Part No.	Description
GSQ5110	300-1400MHz 4W linear PA, 13' Reel with 1500pcs