

Preliminary DATA SHEET

GGQ4033: 100 to 4000MHz 2Watts High Power and Linear Amplifier

Product overview

GGQ4033 is a single-stage HBT high power wideband amplifier for indoor/outdoor wireless application such as basestation, radio system application. It works for 2140MHz and can deliver 35dBm output peak power with 15dB power gain, and excellent linearity. It has integrated temperature compensation circuits within a tiny lead frame package.

Key Features

- 100MHz – 4000MHz
- 15dB Gain @2140MHz
- 50% PAE at 33dBm output power
- 35dBm output peak power
- Integrated temperature compensation circuits
- Compact and low-cost 4mm x 4mm 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
- RFID Readers

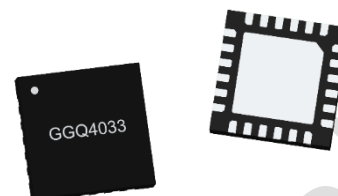


Figure 1. 24pin 4x4 mm QFN Package

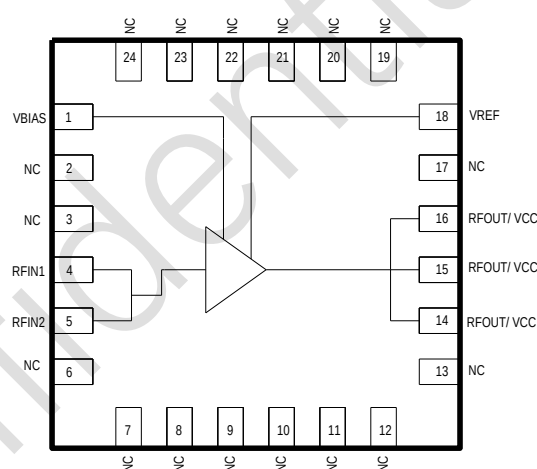


Figure 2. GGQ4033 Function Block Diagram

Table 1. Pin-to-Pin Compatible PA Family

Part Num	Frequency (MHz)	3GPP Band
GGQ4033	100-4000MHz	n5,8,20,28,71

Ordering Information

Part No.	Description
GGQ4033	100-4000MHz 2W linear PA, 13' Reel with 4000pcs