

Preliminary DATA SHEET

GPQ6040: 0.1 to 6GHz 40dB Log RF Detector

Product overview

GPQ6040 is a high performance, low power RF logarithmic power detector designed for the measurement of wireless signals in the frequency range of 0.1GHz to 6GHz. It has a typical dynamic range of 40dB and best accuracy for variety of wireless applications for power control, TSSI and other RF power measurement. This detector has very tiny DFN 1.5x1.5mm package with 6pins.

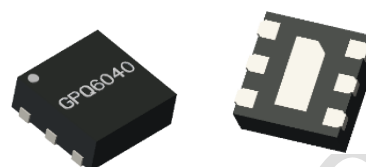


Figure 1. 6 Pad 1.5 x 1.5 mm DFN Package

Key Features

- 0.1GHz – 6GHz Frequency Range
- Linear logarithmic RF power detector
- Input Range -40dBm to 0dBm
- Low current Consumption
- Integrated temperature compensation circuits
- Compact and low-cost 1.5mm x 1.5mm DFN package
- (MSL3, 260°C per JEDEC J-STD-020)
- ESD Level: HBM 1000V; CDM 1000V
- ROHS compatible

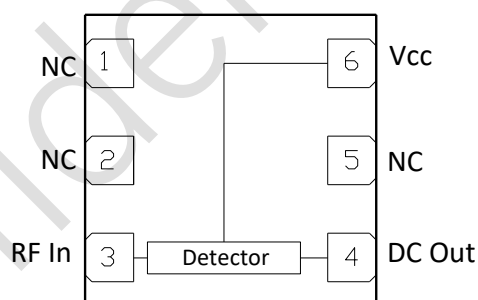


Figure 2. GPQ6040 Function Block Diagram

Applications

- FDD and TDD 2G/3G/4G LTE/5G NR systems
- TSSI and RSSI for wireless devices
- Transmitter power measurement
- Transmitter PA control
- Customer Premises Equipment (CPE)

Ordering Information

Part No.	Description
GPQ6040	0.1-6GHz 40dB log RF detector, 7' Reel with 4000pcs