

## Preliminary DATA SHEET

# GNQ6030

## 48V, DC-6GHz, 30Watts GaN Power Amplifier

### Product overview

GNQ6030 is a 30W(P3dB) unmatched GaN power amplifier. It operates from DC to 6GHz with 48 volt rail, offers a general purpose, broadband, high power and high efficiency wireless communication application.

### Key Features

- DC– 6GHz
- Operating Drain Voltage: +48V
- 19dB linear Gain @3.5GHz
- 45dBm Peak Power
- 60% Drain Efficiency @P3dB
- NI200 2 Lead flange Ceramic package (MSL3, 260°C per JEDEC J-STD-020)
- ESD Level: HBM TBD ; CDM TBD
- ROHS compatible

### Applications

- 3GPP 4G LTE/5G NR massive MIMO basestation
- Driver amplifier for micro-base and macro-base Stations
- Active antenna array
- Pico/Small Cell
- Test Instrumentation
- Industrial, scientific, and medical
- Wideband amplifiers

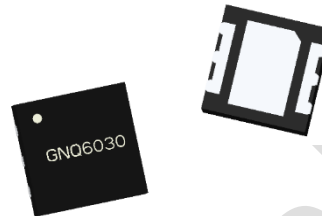


Figure 1. 3x3mm QFN Package

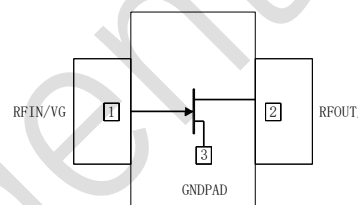


Figure 2. GNQ6030 Function Block Diagram

Table 1. GNQ6030 Signal Descriptions

Pin	Name	Description
1	RFIN/VG	RF input port with Gate Bias
2	RFOUT/VD	RF output port with Drain Supply Voltage
3	GND	Grounding

### Ordering Information

Part No.	Description
GNQ6030	DC-6GHz 30Watts Peak Power GaN wideband PA, 7' Reel with 500pcs