

140-200GHz LNA, 20dB Gain, NF=6dB 2021-5-22



Product Overview

AT-LNA-140200-2006T is a low noise amplifier operating in the 140-200 GHz frequency range. The LNA is packaged in a waveguide module using industry standard WR-05.

MMIC technology LNA Chip is used, which ensures reliable and repeatable unit-to-unit result. Higher gain amplifier can be achieved.

More information, please visit www.atmicrowave.com

Advantages

- ✓ Frequency: 140-200GHz
- ✓ High Gain: 20dB
- ✓ NF: 6dB
- ✓ Single Supply

Application

- ✓ G/J Band Communication
- ✓ FOD (Foreigner Objects Debris)
- ✓ Test Equipment
- ✓ ROF (RF Over Fiber)
- ✓ Radar System

Key Features

| Parameter | Min | Typical | Max |
|--------------------|-----|------------|--------|
| Frequency | | 140-200GHz | |
| Gain | 17 | 20dB | |
| Noise Figure | | 6dB | |
| Pin | | -20dBm | -10dBm |
| Output P1dB | | -3dBm | |
| Psat | | +0dBm | |
| Drain Supply | | +5V | +6V |
| Current | | 30mA | |
| Input Return Loss | | -5dB | |
| Output Return Loss | | -5dB | |
| Spec Temp | | 25C | |





AT-LNA-140200-2006T

140-200GHz Low Noise Amplifier

Mechanical Information

| Item | Description |
|---------------------------|-------------|
| Input Port | WR-05 |
| Output Port | WR-05 |
| Case Material | Copper |
| Finish | Gold Plated |
| Weight (Without Heatsink) | 209g |
| Size: | 30x24x20mm |

Absolute Maximum Ratings Table

| Parameter | Value |
|-----------------------|--------------|
| Drain Supply | +8V |
| RF Input Power | +8dBm |
| Operating Temperature | 0 to +50C |
| Storage Temperature | -65 to +150C |

Notes:

1. Datasheet may be changed according to update of MMIC, Raw materials , process, and so on.
2. This data is only for reference, not for guaranteed specifications.
3. Please contact AT Microwave team to make sure you have the most current data.



Dimension: (mm)

