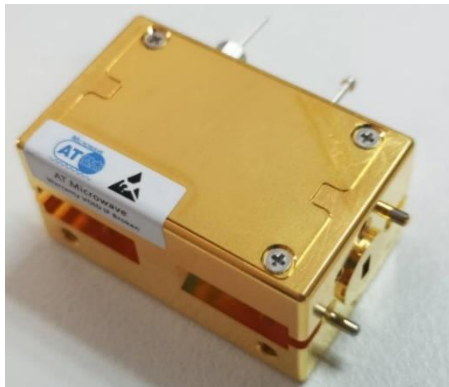


E1 Band Low Noise Amplifier



Product Overview

AT-LNA-7080-1805 is an low noise amplifier operating in the 70-80GHz frequency range. The LNA is packaged in a waveguide module using industry standard WR-12.

GaAs pHEMT MMIC technology LNA Chip is used, which ensures reliable and repeatable unit-to-unit result.

More information, please visit www.atmicrowave.com.

Advantages

- ✓ Frequency: 70-80GHz
- ✓ Gain: 18dB
- ✓ NF: 5dB
- ✓ Single Power Supply

Application

- ✓ E band Communication
- ✓ Test Equipment
- ✓ ROF (RF Over Fiber)
- ✓ Radar System

Key Features

| Parameter | Min | Typical | Max |
|--------------------|-----|----------|-----|
| Frequency | 70 | 71-76GHz | 80 |
| Gain | 15 | 18dB | |
| Noise Figure | | 5dB | 6dB |
| Drain Supply | | +5V/80mA | +8V |
| P1Db | | +8dBm | |
| Psat | | +10dBm | |
| Input Return Loss | | -8dB | |
| Output Return Loss | | -8dB | |
| Spec Temp | | 25C | |





AT-LNA-7080-1805

70-80GHz 18dB Gain Low Noise Amplifier

Mechanical Information

| Item | Description |
|---------------------------|-------------|
| Input Port | WR-12 |
| Output Port | WR-12 |
| Case Material | Copper |
| Finish | Gold Plated |
| Weight (Without Heatsink) | 100g |
| Size: | 40X25X20 mm |

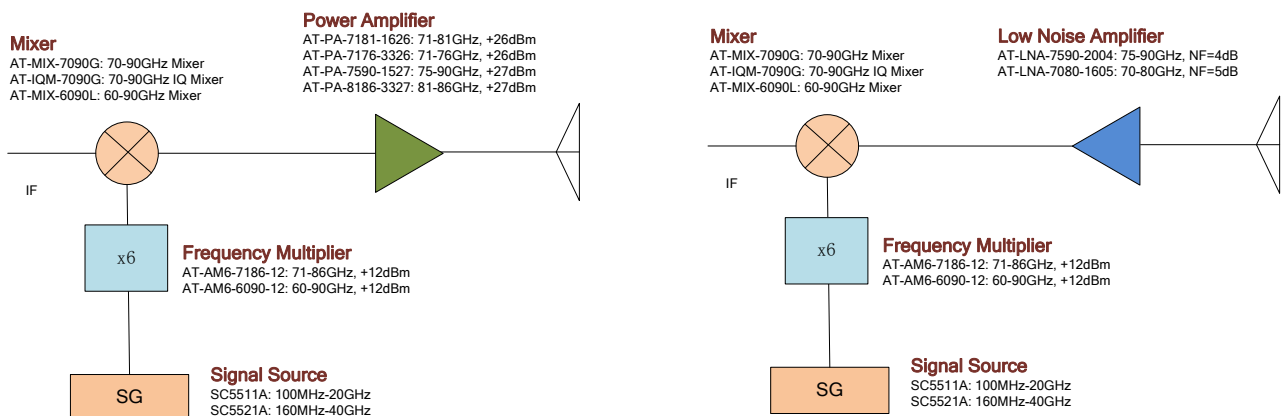
Absolute Maximum Ratings Table

| Parameter | Value |
|-----------------------|--------------|
| Drain Supply | +9V |
| RF Input Power | +15dBm |
| 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.

E Band Solution:



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Dimension:

