

AT-BTLNA-75110-1805T

75-110GHz 18dB Gain, NF 4dB Low Noise Amplifier

W Band LNA, 18dB Gain, NF=5dB Bench-Top Test Equipment

2022-4-10



Product Overview

AT-BTLNA-75110-1805T is a low noise amplifier operating in the 75-110 GHz frequency range. The LNA is packaged in a waveguide module using industry standard WR10.

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: 75-110GHz
- ✓ High Gain: 18dB
- ✓ NF: 5dB
- ✓ Single Supply

Application

- ✓ W band Imaging
- ✓ FOD (Foreigner Objects Debris)
- ✓ Test Equipment
- ✓ ROF (RF Over Fiber)
- ✓ Radar System

Key Features

| Parameter | Min | Typical | Max |
|--------------------|-----|-----------|------|
| Frequency | | 75-110GHz | |
| Gain | 15 | 18 | |
| Noise Figure | | 5dB | 6dB |
| Output P1dB | | +0dBm | |
| Psat | | +2dBm | |
| Power Supply | 90V | 220V | 240V |
| Power Consumption | | 10W | |
| Input Return Loss | | -5dB | |
| Output Return Loss | | -10dB | |
| Spec Temp | | 25C | |

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Mechanical Information

| Item | Description |
|---------------------------|------------------|
| Input Port | WR-10 |
| Output Port | WR-10 |
| Case Material | Aluminum |
| Finish | Painting |
| Weight (Without Heatsink) | 1.6KG |
| Size: | 206.7x167x82.9mm |

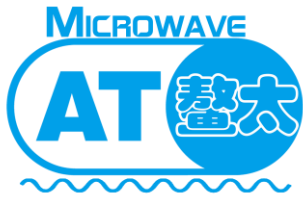
Absolute Maximum Ratings Table

| Parameter | Value |
|-----------------------|--------------|
| Drain Supply | +260V |
| RF Input Power | +5dBm |
| 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.





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Dimension: (mm)

