



# AT-LNA-75110-3505T

75-110GHz 35dB Gain, NF 5dB Low Noise Amplifier

## W Band LNA, 35dB Gain, NF=5dB Bench-Top Test Equipment

2021-8-31



### Product Overview

AT-BTLNA-75110-3505T 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](http://www.atmicrowave.com)

### Advantages

- ✓ Frequency: 75-110GHz
- ✓ High Gain: 35dB
- ✓ 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               | 32  | 35        |      |
| Noise Figure       |     | 5dB       | 7dB  |
| Output P1dB        |     | +10dBm    |      |
| Psat               |     | +13dBm    |      |
| 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 |

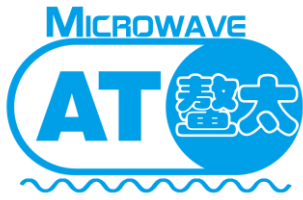
## Absolute Maximum Ratings Table

| 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)

