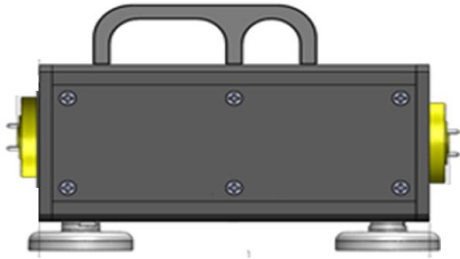


## 75-90GHz, E2 Band LNA



### Product Overview

AT-BTLNA-7590-3504 is a low noise amplifier operating in the 75-90GHz frequency range. The LNA is packaged in a waveguide module using industry standard WR12.

The power supply require is a single phase AC voltage in the range of 110-240V, which can be supplied by a wall outlet. A AC TO DC power supply converter is include. The LED light helps to indicate the working status of the amplifier..

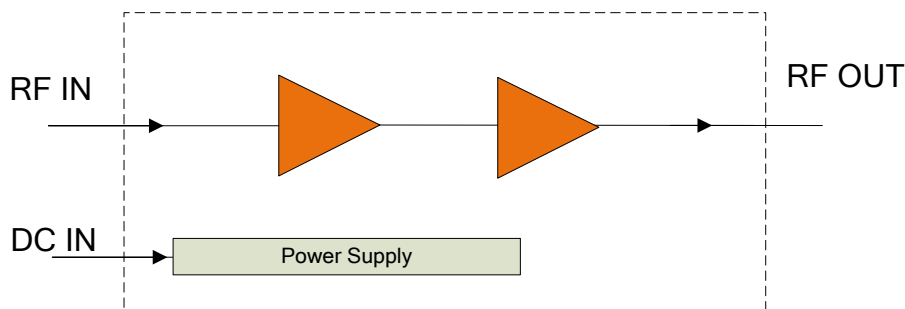
### Advantages

- ✓ Frequency: 75-90GHz
- ✓ Gain: 35dB
- ✓ NF: 4dB
- ✓ Bench-Top Labs Test

### Application

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

### Diagram Block:





# AT-BTLNA-7590-3504

## Bench-Top Low Noise Amplifier

### Key Features

Parameter	Min	Typical	Max
Frequency		75-90GHz	
Gain		35dB	
Input Power		-15dBm	+5dBm
NF		4 dB	6
Output P1dB		+10dBm	
Psat		+13dBm	
DC Supply (note)		+12V/0.3A	
Input Return Loss		-10dB	
Output Return Loss		-10dB	
Input /Output Port		WR-12	
Dimension(LxWxH)		160x130x75 mm	
Specification Temperature		+25C	
Operating Temperature		0 to 50C	

Note: AC to DC adapter included.

### Mechanical Information:

Parameter	Value
RF Input	WR-12 Waveguide with Flange
RF Output	WR-12 Waveguide with Flange
DC Bias	+12V Supply, AC to DC Power Converter included
DC Bias Switch	ON-OFF switch with light indicator
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.



## Absolute Maximum Ratings Table

Parameter	Value
Drain Supply	+240V
RF Input Power	+5dBm
Operating Temperature	0 to +50C
Storage Temperature	-65 to +150C

## Dimension: (mm)

The dimension maybe changed.

