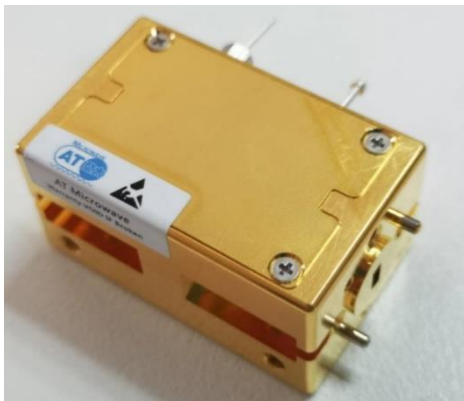


### F Band LNA, 100-140GHz

2022-7-1

### High gain=32dB , NF=6dB, WR-08



#### Product Overview

AT-LNA-100140-3206T is high gain low noise amplifier operating in the 100-140 GHz frequency range. The LNA is packaged in a waveguide module using industry standard WR-08.

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: 100-140GHz
- ✓ High Gain: 32dB
- ✓ NF: 6dB
- ✓ Single Supply

#### Application

- ✓ F Band Communication
- ✓ FOD (Foreigner Objects Debris)
- ✓ Test Equipment
- ✓ ROF (RF Over Fiber)

#### Key Features

Parameter	Min	Typical	Max
Frequency		100-140GHz	
Gain	30dB	32dB	
Noise Figure		6dB	8dB
Input Power		-40dBm	-10dBm
Output P1dB		-3dBm	
Psat		+0dBm	
Drain Supply		+5V	+6V
Current		70mA	
Input Return Loss		-5dB	
Output Return Loss		-5dB	
Spec Temp		25C	





# AT-LNA-100140-3206T

100-140GHz Low Noise Amplifier

## Mechanical Information

Item	Description
Input Port	WR-08
Output Port	WR-08
Case Material	Copper
Finish	Gold Plated
Weight	150g
Size:	See outline

## Absolute Maximum Ratings Table

Parameter	Value
Drain Supply	+8V
RF Input Power	+0dBm
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.

## Part Number Selection Guide

Item	Description
PN	Standard Module with DC Power Supply
<b>PN-LCBT</b>	<b>L</b> ow Cost, <b>C</b> ompact <b>B</b> ench- <b>T</b> op, +220V Supply with AC/DC Adapter



Dimension: ( unit mm)

