

### 40-60GHz Low Noise Amplifier

2020-11-9

### High gain=18dB, Low NF=5dB, WR-19



#### Product Overview

AT-BTLNA-4060-1805C is low noise amplifier with 18dB gain in the frequency of 40-60GHz. The AC power requirement is 90 to 240V. The module is with a standard WR-19 waveguide.

The LNA has high gain, high linearity, low input/output return loss and flat gain response.

More information, please visit [www.atmicrowave.com](http://www.atmicrowave.com)

#### Advantages

- ✓ Frequency: 40-60GHz
- ✓ Small signal gain: 18dB
- ✓ NF 5dB
- ✓ Single Power Supply

#### Application

- ✓ U Band Communication
- ✓ Test Equipment
- ✓ ROF (RF Over Fiber)
- ✓ Radar System

#### Key Features

Parameter	Min	Typical	Max
Frequency		40-60GHz	
Gain	15dB	18dB	
NF		5dB	7dB
P1		+15dBm	
Psat		+16dBm	
Power Supply	90V	220V	240V
Power Consumption		10W	
Input Return Loss		-8dB	
Output Return Loss		-8dB	
Spec Temp		25C	





# AT-BTLNA-4060-1805C

U Band Low Noise Amplifier

## Mechanical Information

Item	Description
Input Port	WR-19
Output Port	WR-19
Case Material	Aluminum
Finish	Painting
Weight	1.6KG
Size:	See outline

## Absolute Maximum Ratings Table

Parameter	Value
Drain Supply	+260V
RF Input Power	+10dBm
Operating Temperature	0 to +50C
Storage Temperature	-65 to +150C

### Caution:

Please pay attention to the case temperature. If case temperature exceed higher than +50C, heat sink and fan are required or the amplifier may be damaged.

### 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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## Test Data (25C)

Please note that test curves will vary slightly from unit to unit.

## Dimension: (unit in mm)

