

40-60GHz Low Noise Amplifier

2020-11-9

High gain=38dB, Low NF=5dB, WR-19



Product Overview

AT-BTLNA-4060-3805C is low noise amplifier with 38dB 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

Advantages

- ✓ Frequency: 40-60GHz
- ✓ Small signal gain: 38dB
- ✓ 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	35dB	38dB	
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	





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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	0dBm
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)

