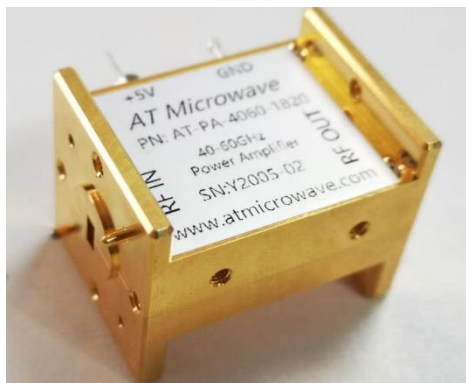


40-60GHz Broadband Low Noise Amplifier



Product Overview

AT-LNA-4060-1805C is low noise amplifier with 18dB gain in the frequency of 40-60GHz. The DC power requirement is +5V/95mA. 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: 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	16	18dB	
Drain Supply		+5V	+6V
NF		5dB	
P1		+8dBm	
Current		95 mA	110mA
Input Return Loss		-8dB	
Output Return Loss		-12dB	
Spec Temp		25C	





AT-LNA-4060-1805C

U Band Low Noise Amplifier

Mechanical Information

Item	Description
Input Port	WR-19
Output Port	WR-19
Case Material	Copper
Finish	Gold Plated
Weight (Without Heatsink)	150g
Size:	40x30x30 mm

Absolute Maximum Ratings Table

Parameter	Value
Drain Supply	+6V
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.



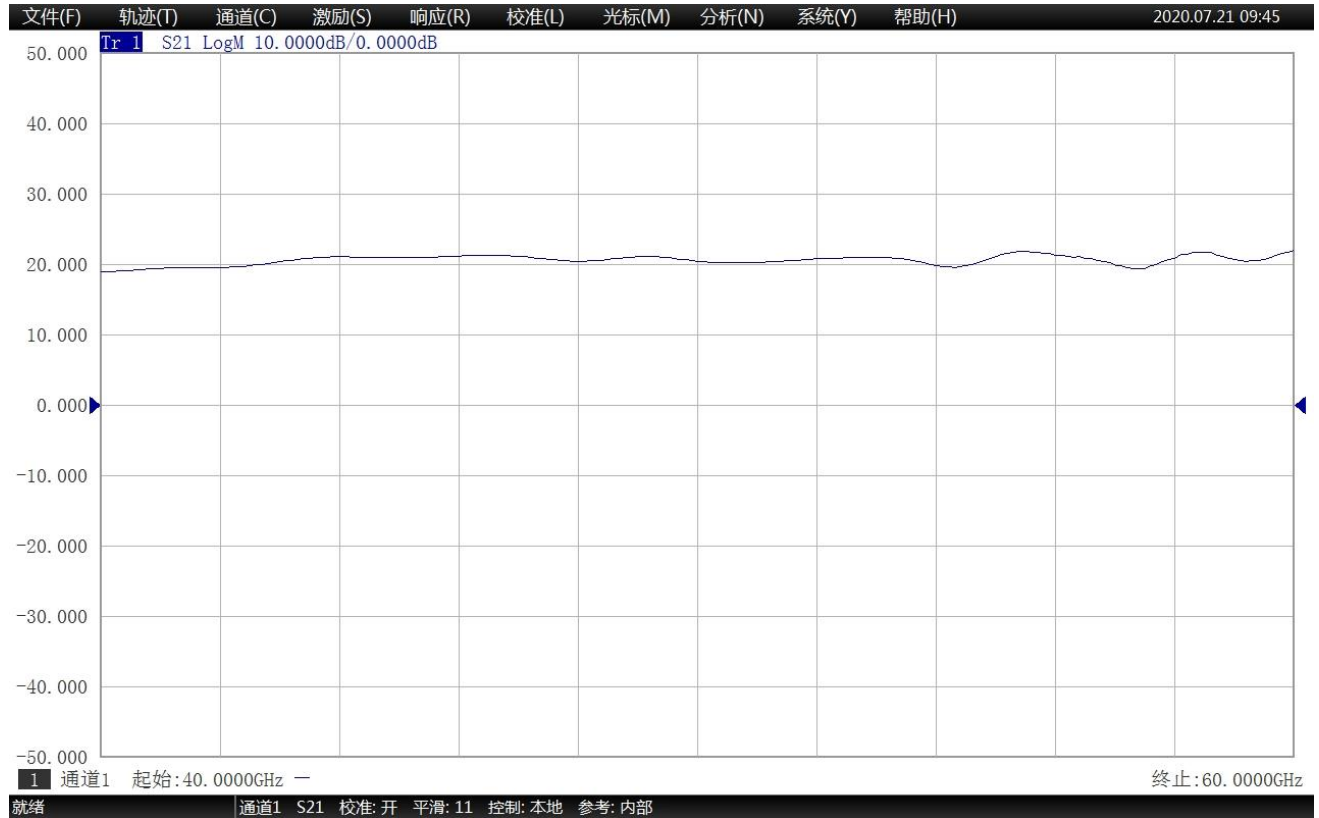


AT-LNA-4060-1805C

U Band Low Noise Amplifier

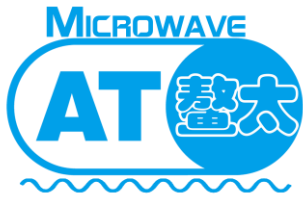
TEST Data:

Vd=+5V, Id=95mA 25C



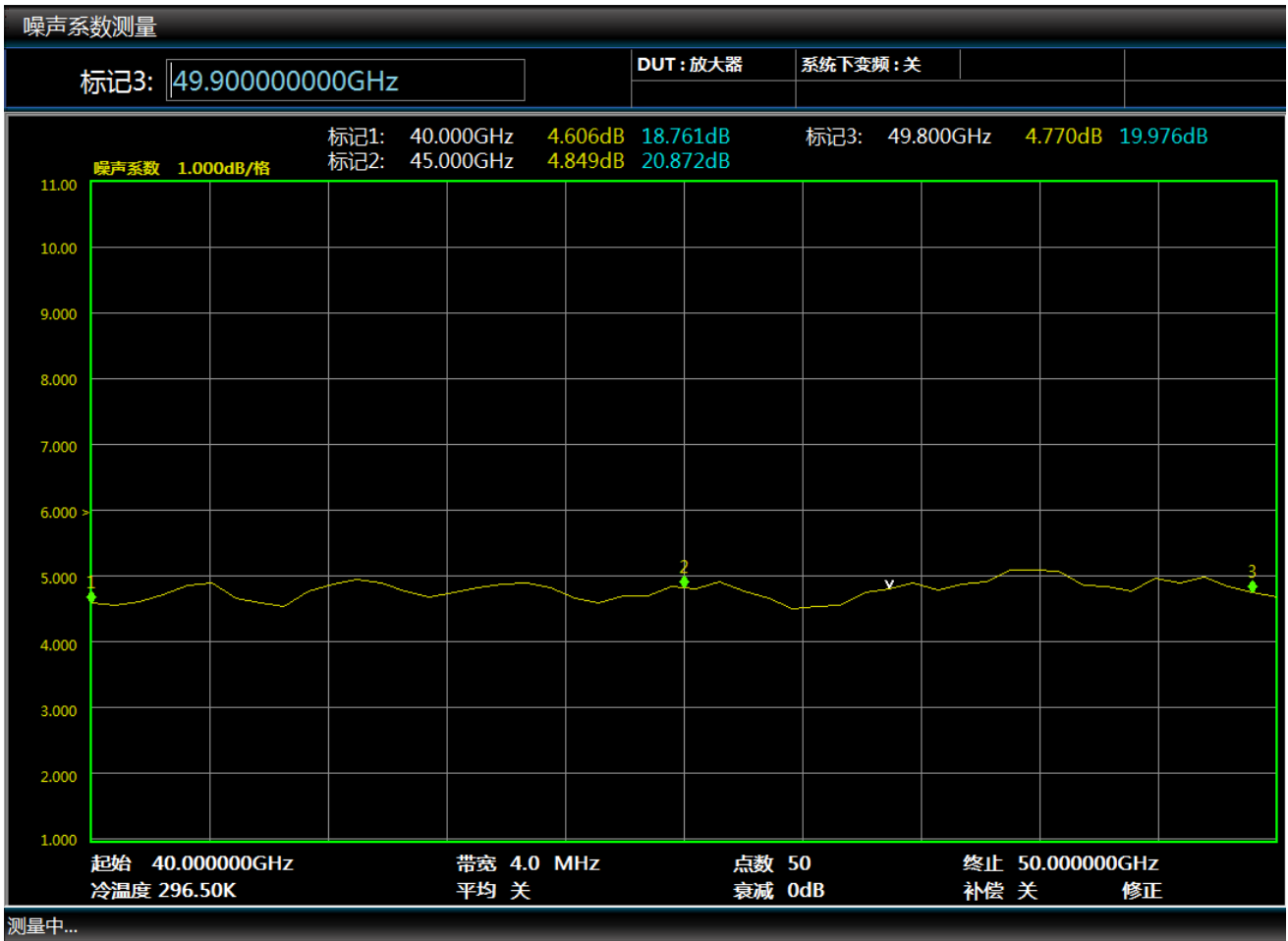
Gain vs Frequency





AT-LNA-4060-1805C

U Band Low Noise Amplifier



NF vs Frequency, 40-50GHz



Dimension (unit in mm)

