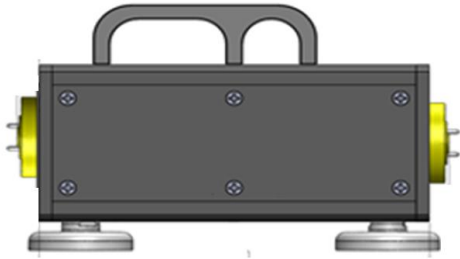


75-110GHz, Bench-Top Full W Band LNA



Product Overview

AT-BTLNA-75110-2004 is a low noise amplifier operating in the 75-110GHz frequency range. The LNA is packaged in a waveguide module using industry standard WR10.

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.

More information, please visit www.atmicrowave.com

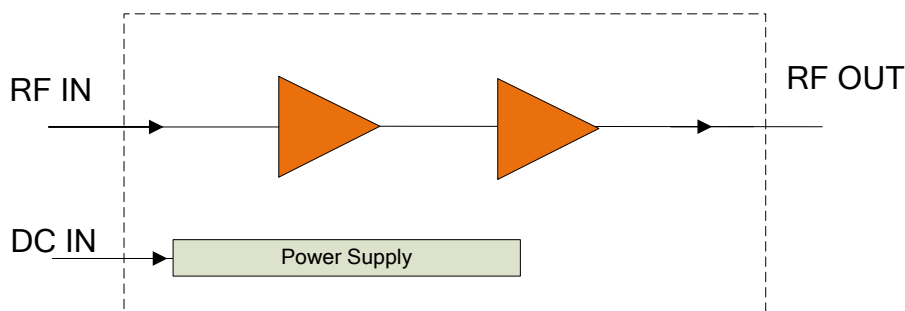
Advantages

- ✓ Frequency: 75-110GHz
- ✓ Gain: 20dB
- ✓ NF: 4dB
- ✓ Bench-Top Labs Test

Application

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

Diagram Block:





AT-BTLNA-75110-2004

Bench-Top Low Noise Amplifier

Key Features

Parameter	Min	Typical	Max
Frequency		75-110GHz	
Gain		20dB	
Input Power		-30dBm	-10dBm
NF		4 dB	6
Output P1dB		+0dBm	
DC Supply (note)		+12V/0.1A	
Input Return Loss		-8dB	
Output Return Loss		-8dB	
Input /Output Port		WR-10	
Dimension(LxWxH)		160x130x75 mm	
Specification Temperature		+25C	
Operating Temperature		0 to 50C	

Note: 220V AC to DC adapter included.

Mechanical Information:

Parameter	Value
RF Input	WR-10 Waveguide with Flange
RF Output	WR-10 Waveguide with Flange
DC Bias	+12V Supply, 220V 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.





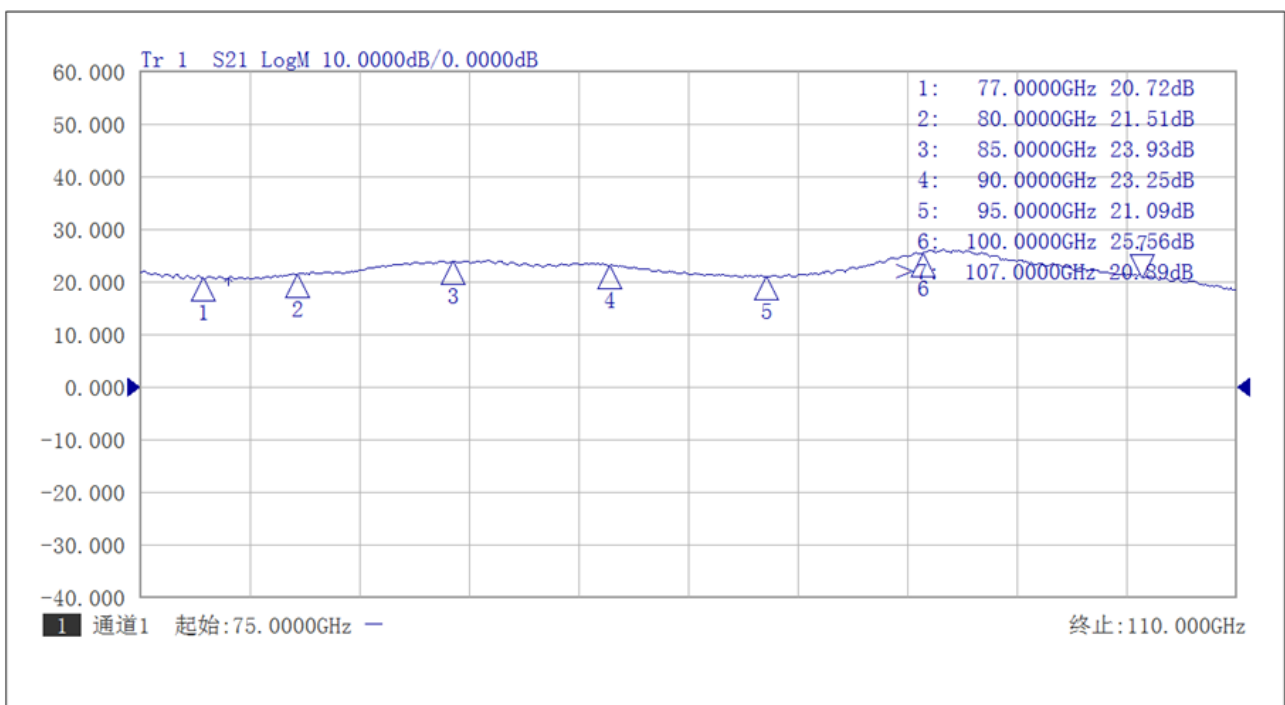
AT-BTLNA-75110-2004

Bench-Top Low Noise Amplifier

Absolute Maximum Ratings Table

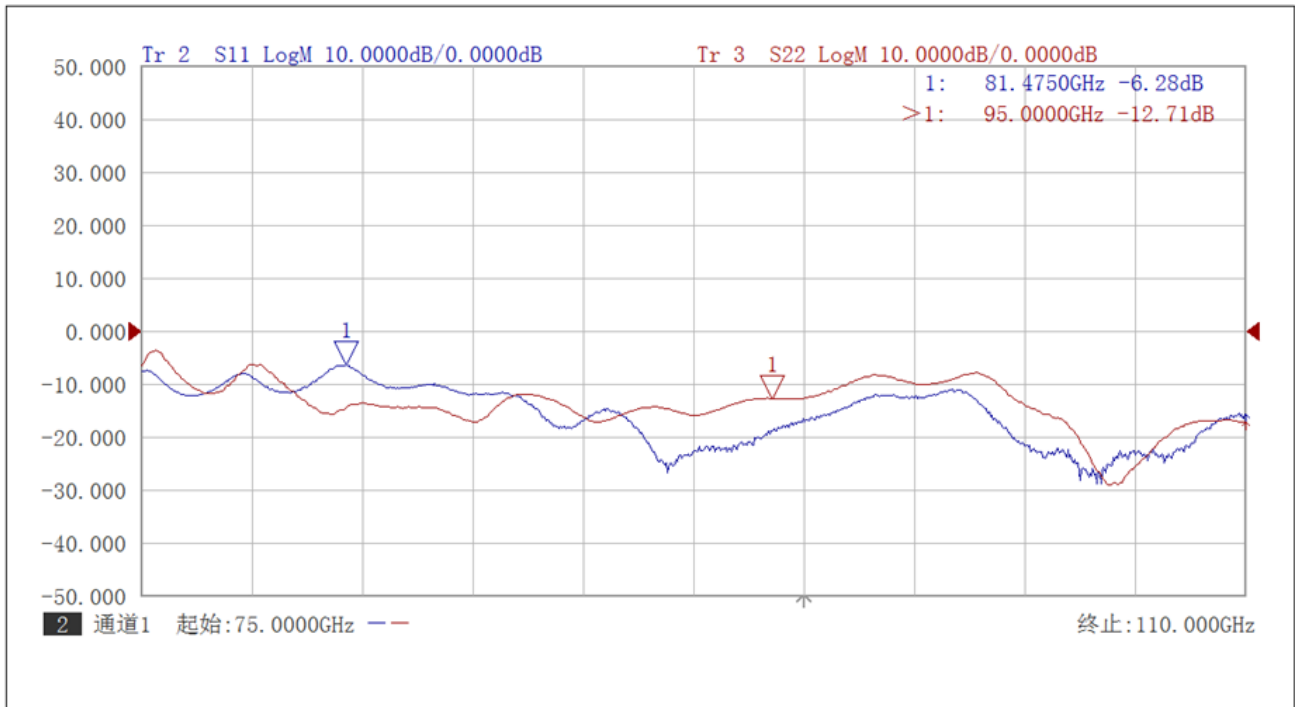
Parameter	Value
Drain Supply	+240V
RF Input Power	+5dBm
Operating Temperature	0 to +50C
Storage Temperature	-65 to +150C

TEST DATA (25C)

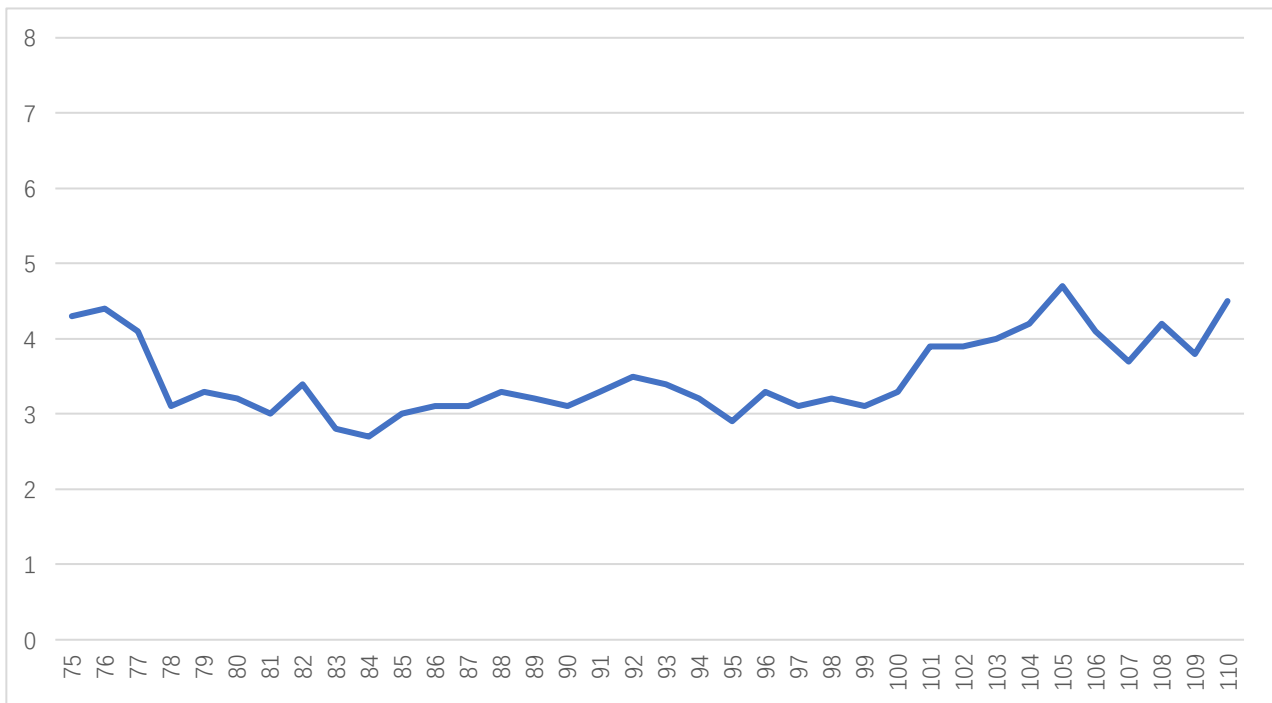


GAIN VS FREQUENCY





Return Loss VS FREQUENCY



NF VS Frequency



Dimension: (mm)

The dimension maybe changed.

