

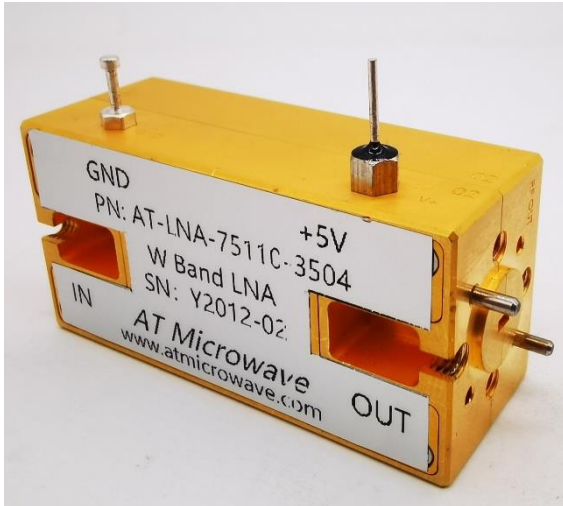


AT-LNA-75110-3504

75-110GHz 35dB Gain Low Noise Amplifier

W Band Low Noise Amplifier, High Gain, Low NF

2020-12-07



Product Overview

AT-LNA-75110-3504 is a low noise amplifier operating in the 75-110 GHz frequency range. The LNA is packaged in a waveguide module using industry standard WR-10.

GaAs MMIC technology LNA Chip is used, which ensures reliable and repeatable unit-to-unit result.

More information, please visit www.atmicrowave.com

Advantages

- ✓ Frequency: 75-110GHz
- ✓ Gain: 35dB
- ✓ NF: 4dB
- ✓ Single Supply

Application

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

Key Features

Parameter	Min	Typical	Max
Frequency		75-110GHz	
Gain (75-105GHz)		35dB	
Input Power		-40dBm	-10
Noise Figure		4dB	6dB
P1dB		+1dBm	
Psat		+3dBm	
Drain Supply		+5V	+8V
Current		70mA	
Input Return Loss		-5dB	
Output Return Loss		-5dB	
Spec Temp		25C	

Note1: Lower gain from 105-110GHz

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Mechanical Information

Item	Description
Input Port	WR-10
Output Port	WR-10
Case Material	Copper
Finish	Gold Plated
Weight (Without Heatsink)	130g
Size:	50x30x30 mm

Absolute Maximum Ratings Table

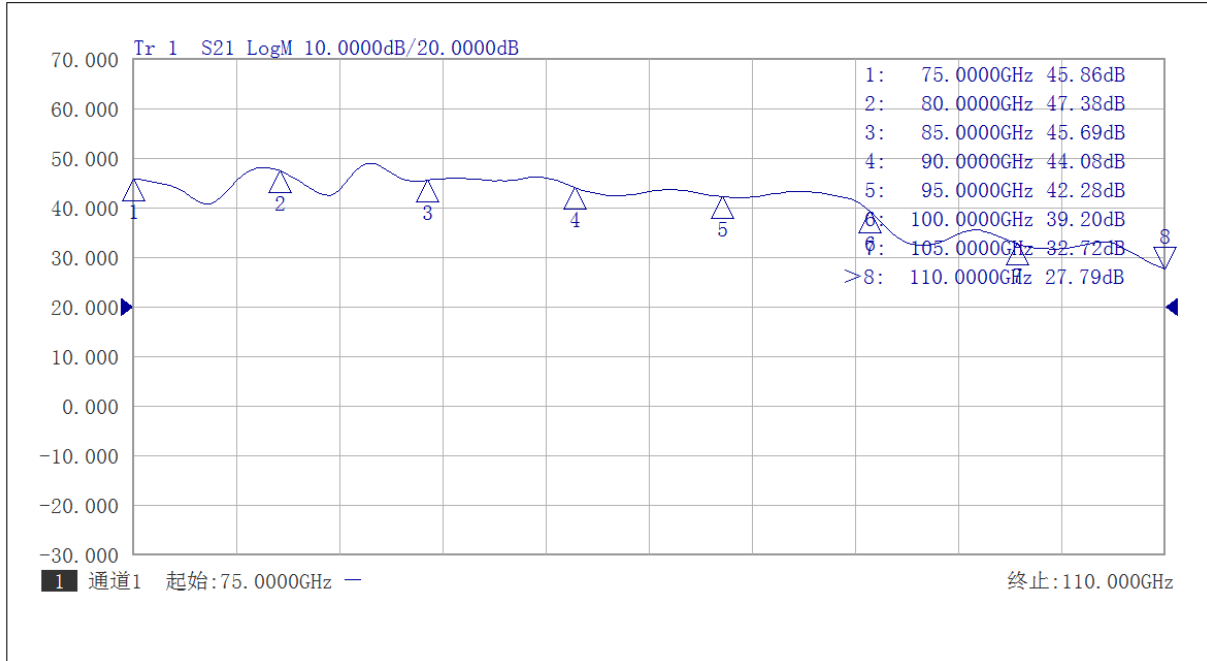
Parameter	Value
Drain Supply	+9V
RF Input Power	+0dBm
Operating Temperature	0 to +50C
Storage Temperature	-65 to +150C

Notes:

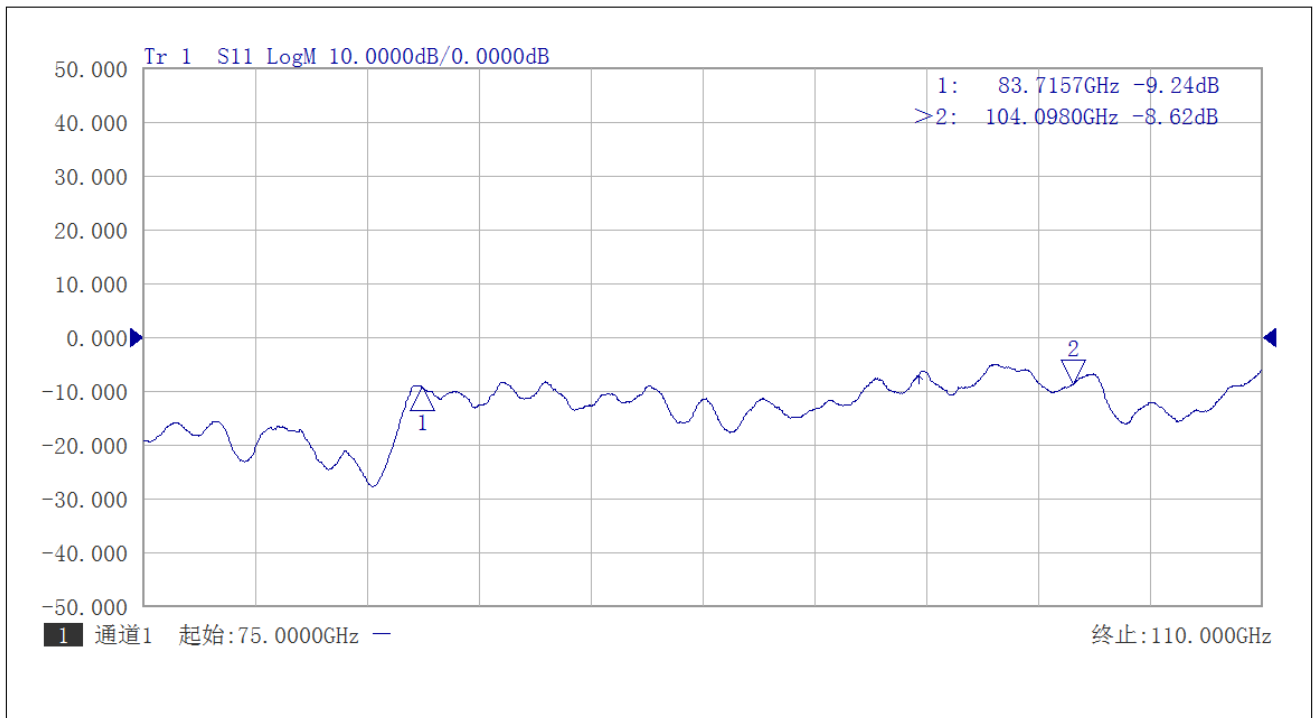
1. Datasheet may be changed according to update of MMIC, Raw materials , process, and so on.
2. This data is only for reference, not for guaranteed specifications.
3. Please contact AT Microwave team to make sure you have the most current data.



Test Data:



Gain vs Frequency



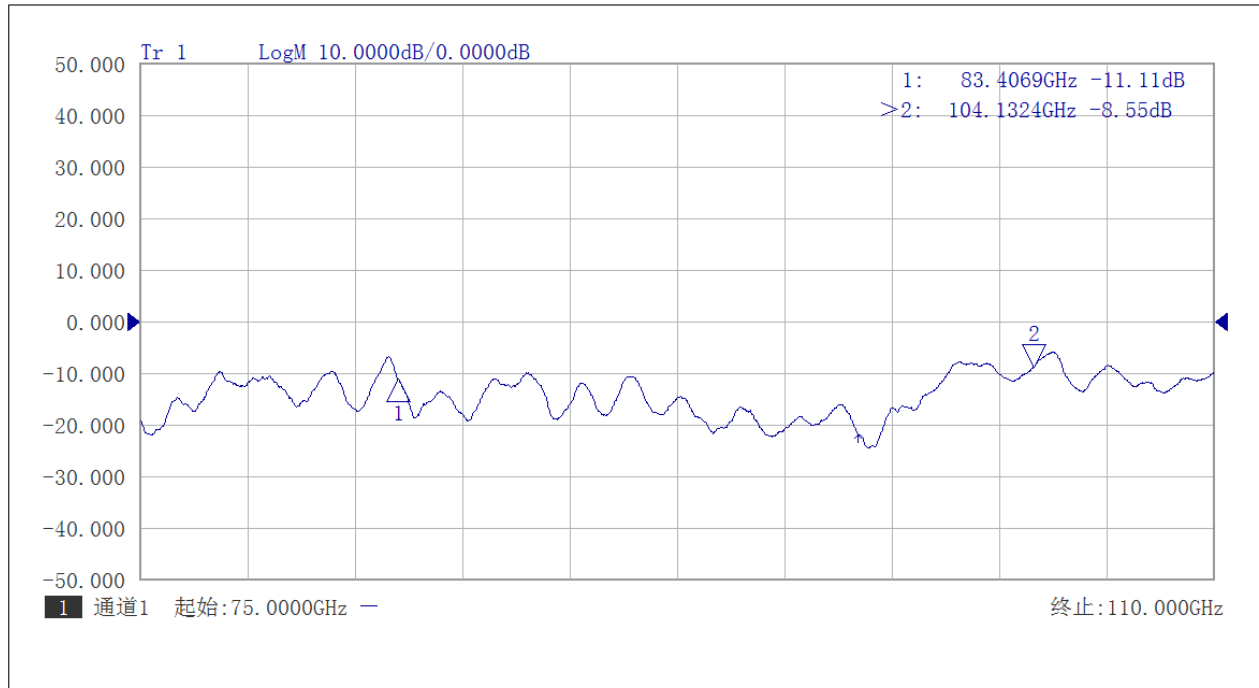
Input Return Loss



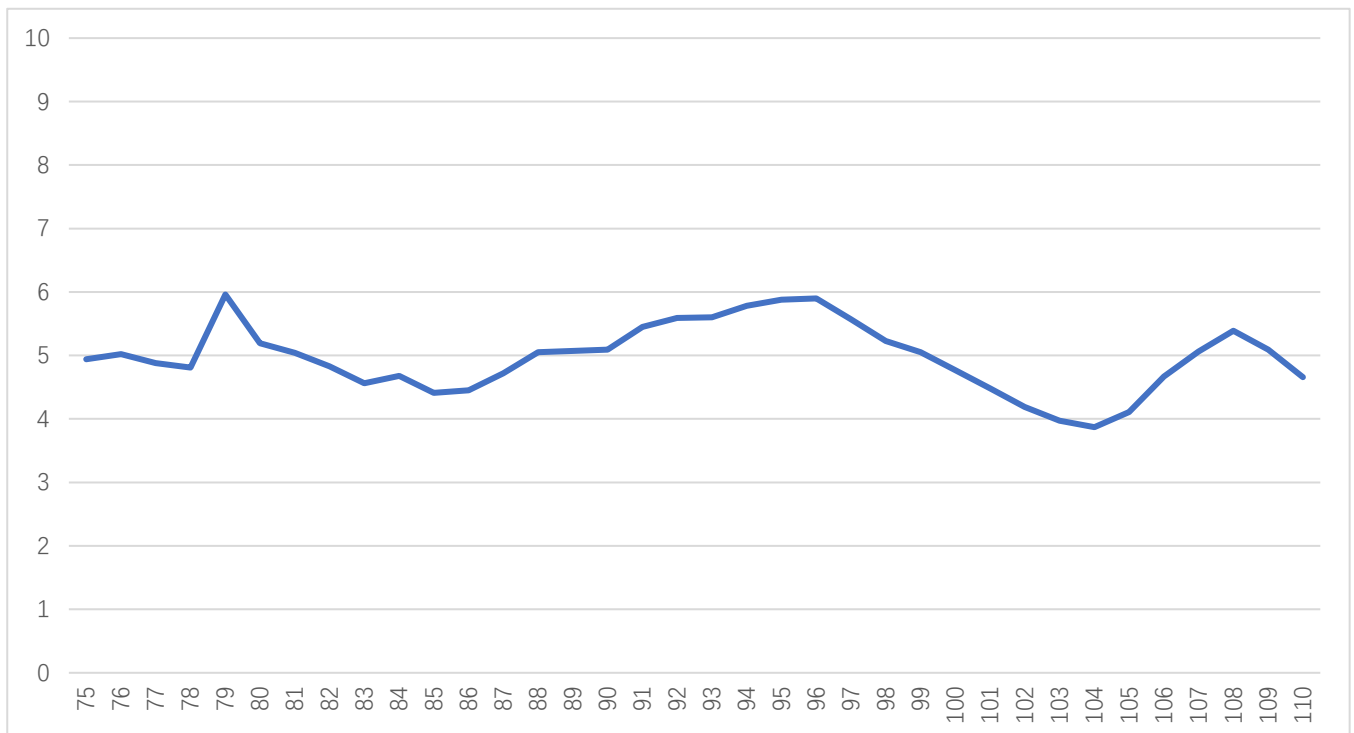


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Output Return Loss



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Dimension: (mm)

