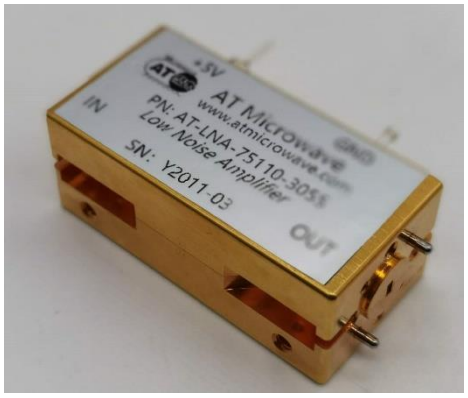
AT-LNA-75110-1555

75-110GHz 15dB Gain Low Noise Amplifier

W Band Low Noise Amplifier, 15dB Gain



Product Overview

AT-LNA-75110-1555 is a low noise amplifier operating in the 75-110 GHz frequency range. The LNA is packaged in a waveguide module using industry standard WR10.

GaAs pHEMT 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: 15dB, 30dB available
- ✓ NF: 5.5dB
- ✓ 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 (80-105GHz)	10	15dB	
Gain Flatness		+/-5dB	
Noise Figure		5.5dB	7
Psat		+9dBm	
Drain Supply		+5V/145mA	+8V
Input Return Loss(80-105GHz)		-8dB	
Output Return Loss(80-105GHz)		-8dB	
Spec Temp		25C	

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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)	100g
Size:	40X25X20 mm

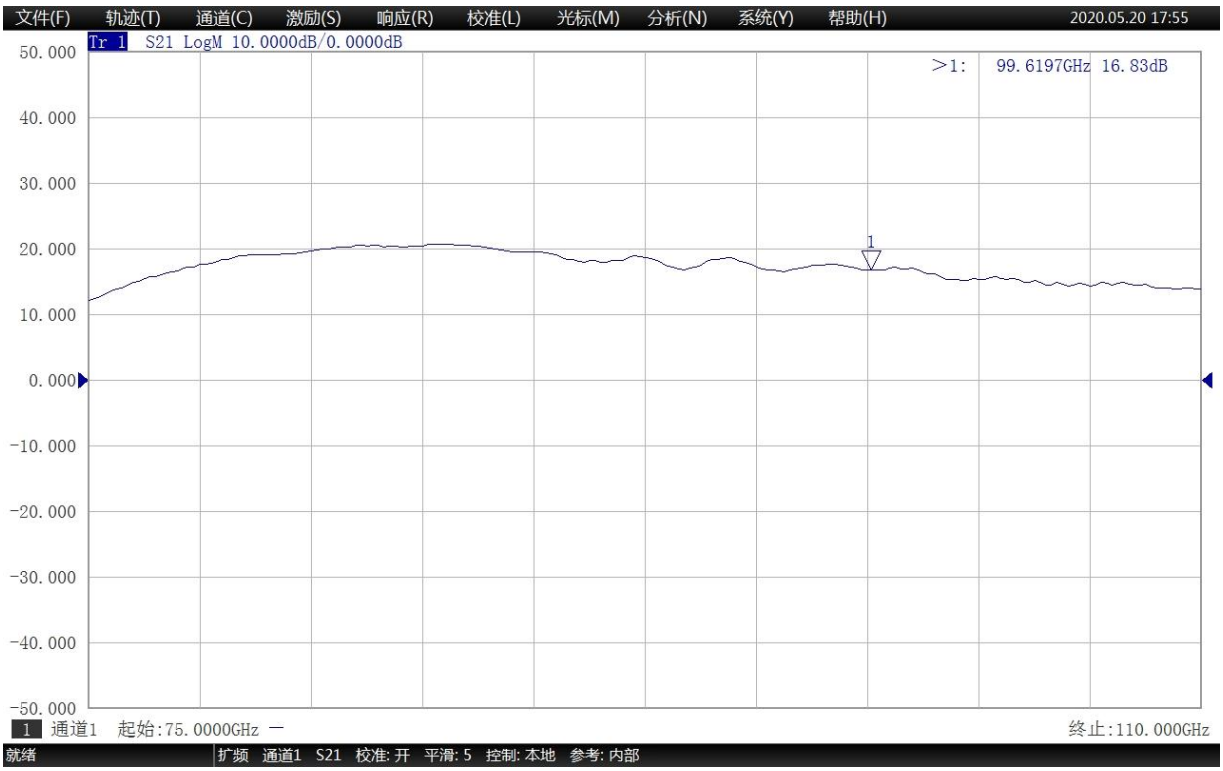
Absolute Maximum Ratings Table

Parameter	Value
Drain Supply	+8V
RF Input Power	+15dBm
Operating Temperature	0 to +50C
Storage Temperature	-65 to +150C

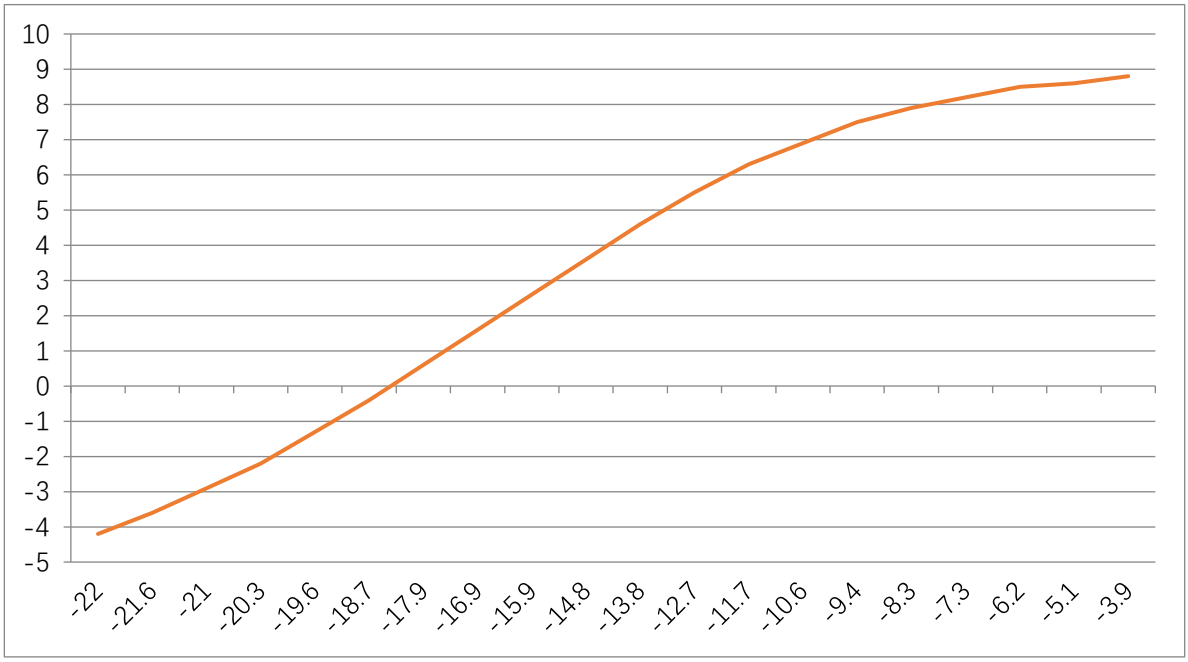
Notes:

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



Pout vs Pin at 85GHz

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Dimension： （mm）