



AT-LNA-80105-1555

80-105GHz 15dB Gain General Driver

W Band General Driver, 15dB Gain

2021-5-30



Product Overview

AT-LNA-80105-1555 is general driver operating in 80-105 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: 80-105GHz
- ✓ Gain: 15dB, 30dB available
- ✓ NF: 7dB
- ✓ 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		80-105GHz	
Gain	10	15dB	
Gain Flatness		+/-2.5dB	
Noise Figure		7dB	
Psat		+8dBm	
Drain Supply		+5V/70mA	+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	+9V
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.

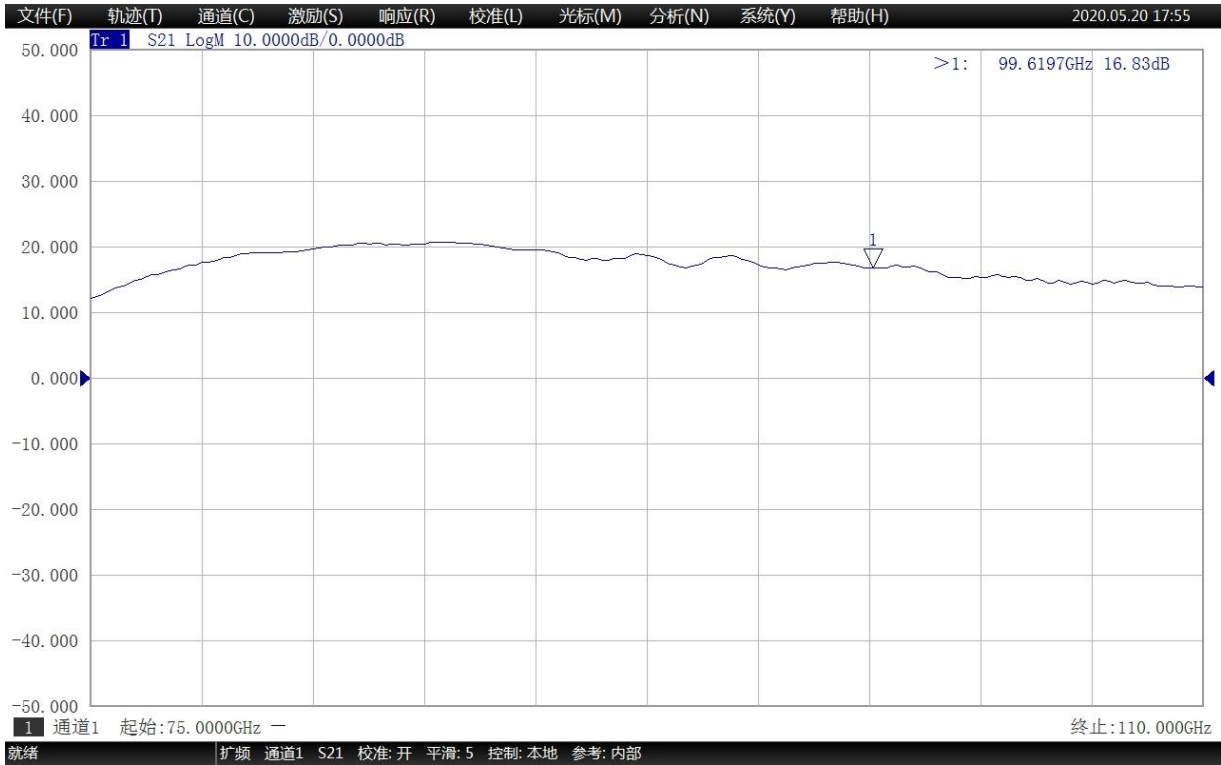




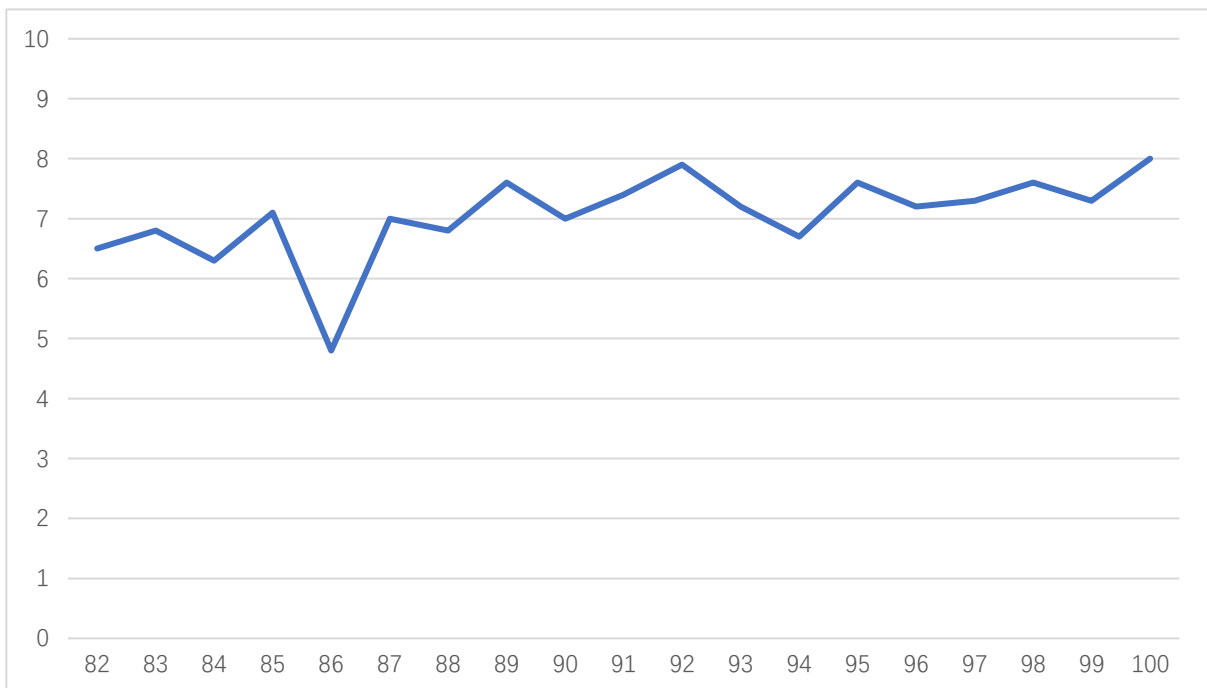
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Test Data

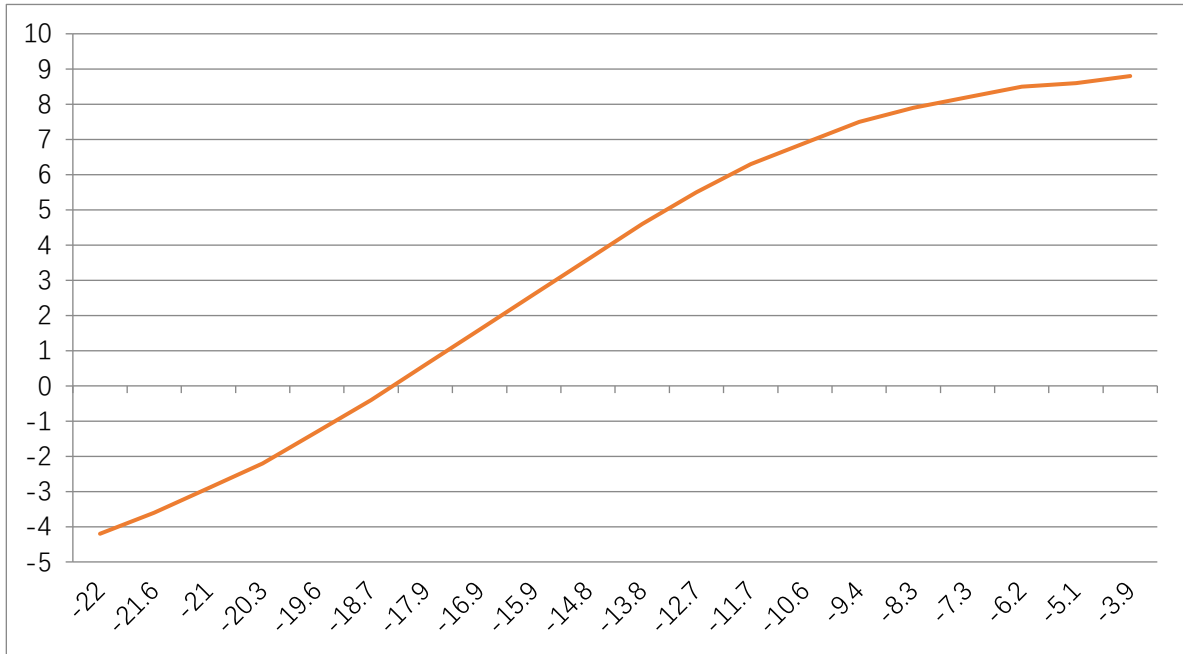


Gain Vs Frequency



NF vs Frequency





Pout vs Pin at 85GHz

Dimension: (mm)

