AT-LNA-80105-3007

80-105GHz 30dB Gain General Driver

W Band General Driver, WR-10
Gain=30dB, Pout=+8dBm, NF=7dB

2022-7-1

Product Overview

AT-LNA-80105-3007 is a high gain general driver operating in the 80-105 GHz frequency range. The LNA is packaged in a waveguide module using industry standard WR-10.

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: 30dB
- ✓ NF:7dB
- ✓ Pout=+8dBm
- ✓ 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		30dB	
Noise Figure		7dB	
Psat		+8dBm	
Drain Supply		+5V	+8V
Current		150mA	
Input Return Loss		-7dB	
Output Return Loss		-7dB	
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	130g
Size:	See outline

Absolute Maximum Ratings Table

Parameter	Value
Drain Supply	+9V
RF Input Power	+10dBm
Operating Temperature	0 to +50C
Storage Temperature	-45 to +85C

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.

Part Number Selection Guide

Item	Description
PN	Stand Module with DC Power Supply
PN-LCBT	Low Cost, Compact Bench-Top, +220V Supply with AC/DC Adapter

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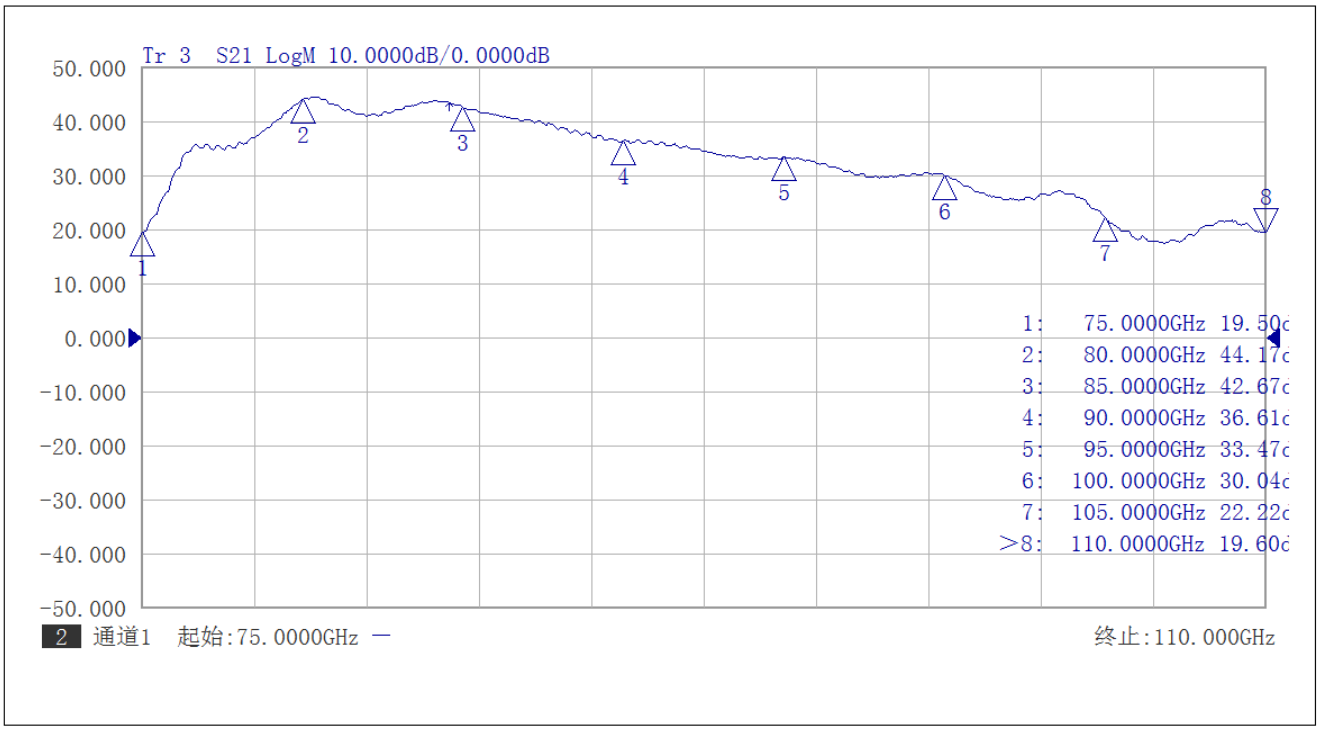
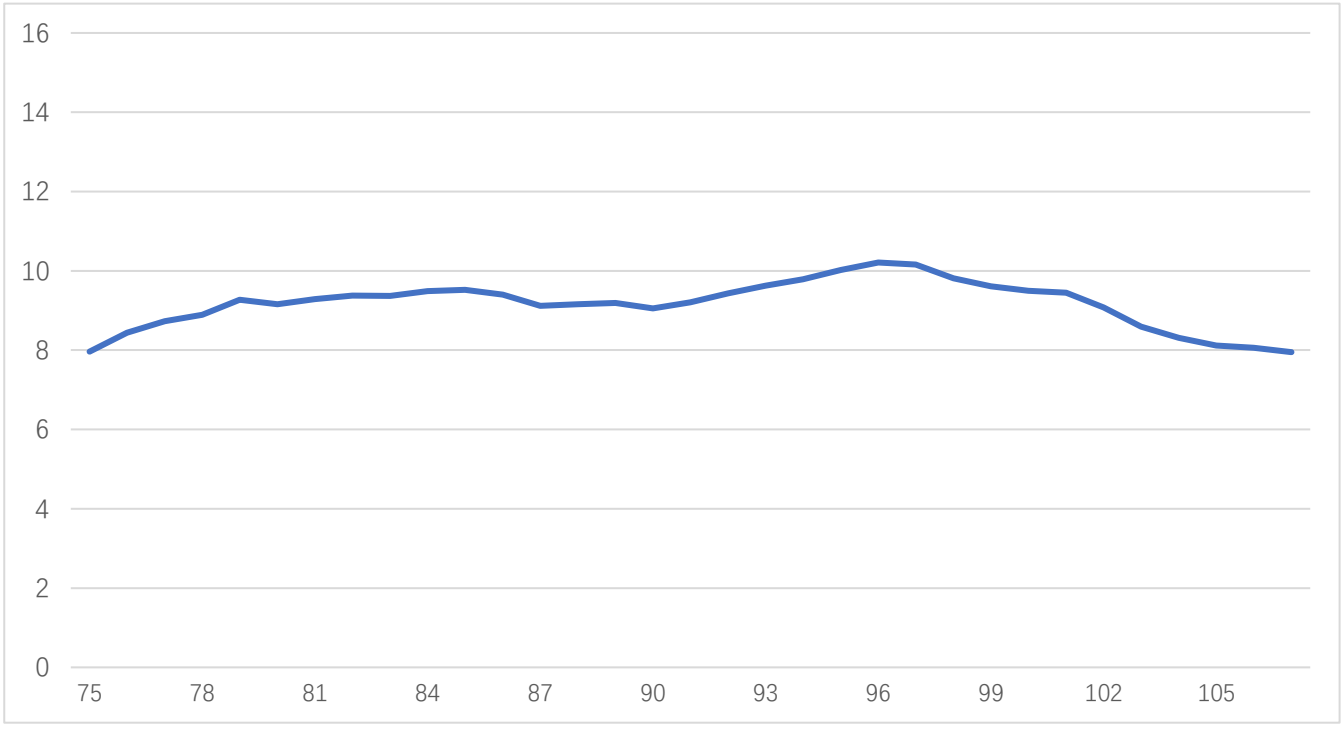
Test Data (25C)

Please note that test curves will vary slightly from unit to unit.



Gain vs Frequency



Psat vs Frequency

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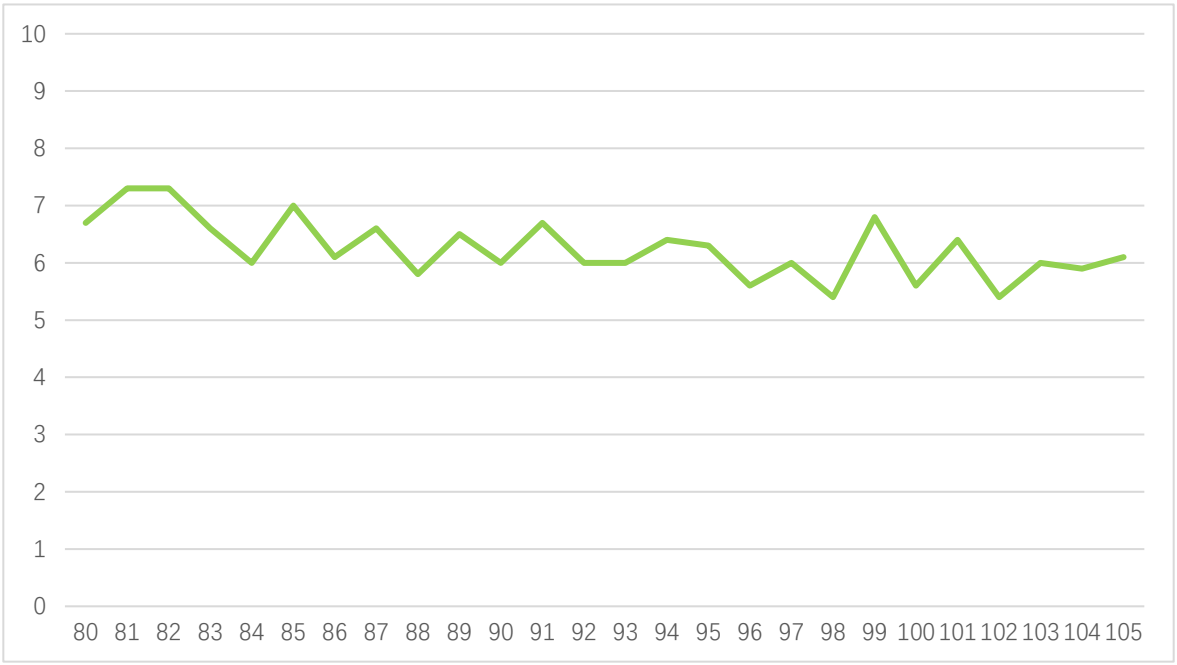

NF vs Frequency

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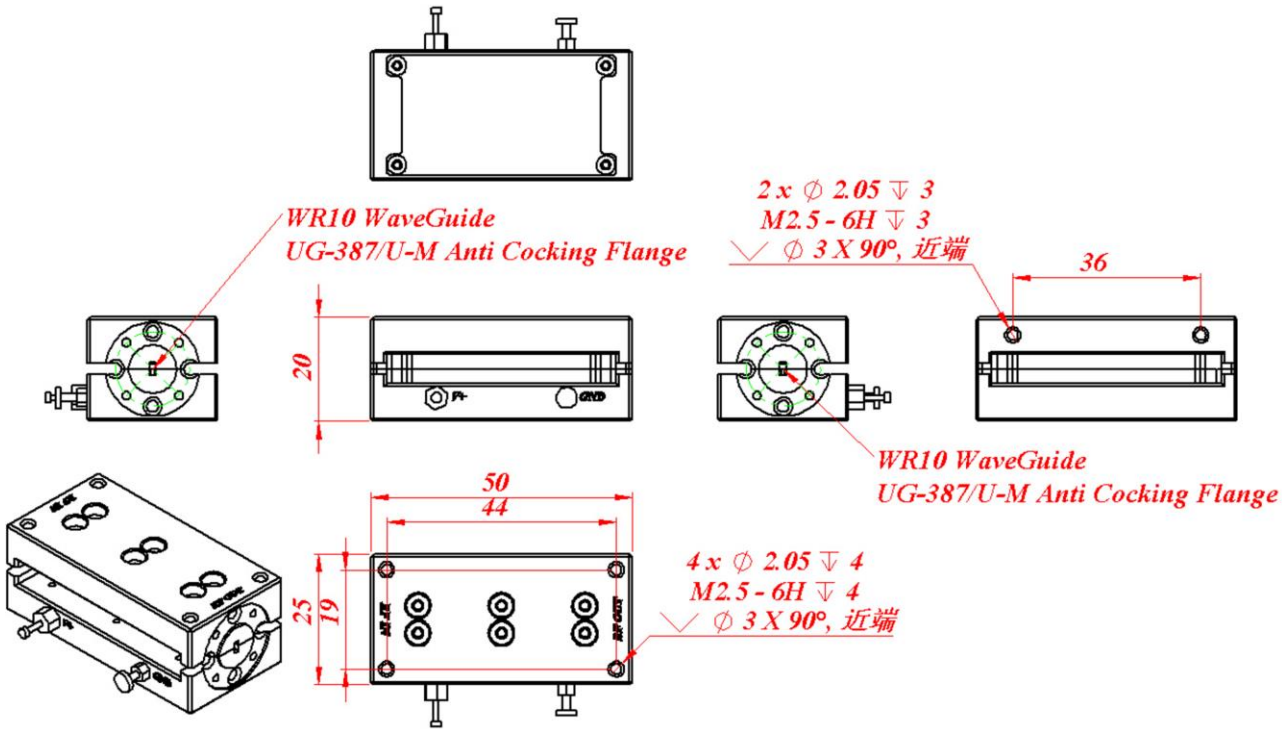
Dimension： （mm）



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