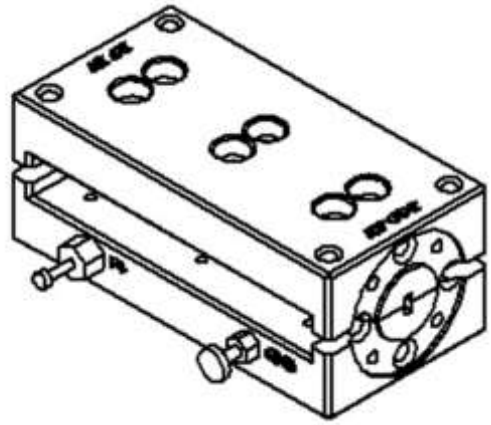
AT-LNA-65115-3804T

65-115GHz 38dB Gain Low Noise Amplifier

W Band Low Noise Amplifier, WR-10
High Gain=38dB，Low NF=4dB

2022-10-1



Product Overview

AT-LNA-65115-3804T is a low noise amplifier operating in the 65-115 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: 65-115GHz
- ✓ Gain: 38dB
- ✓ 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		65-115GHz	
Gain (65-105GHz)	36dB	38dB	
Input Power		-40dBm	-10dBm
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	

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Mechanical Information

Item	Description
Input Port	WR-10 UG-387/U-M Flange with anti-cocking Flange
Output Port	WR-10 UG-387/U-M Flange with anti-cocking Flange
Case Material	Copper
Finish	Gold Plated
Weight	130g
Size:	See outline

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.

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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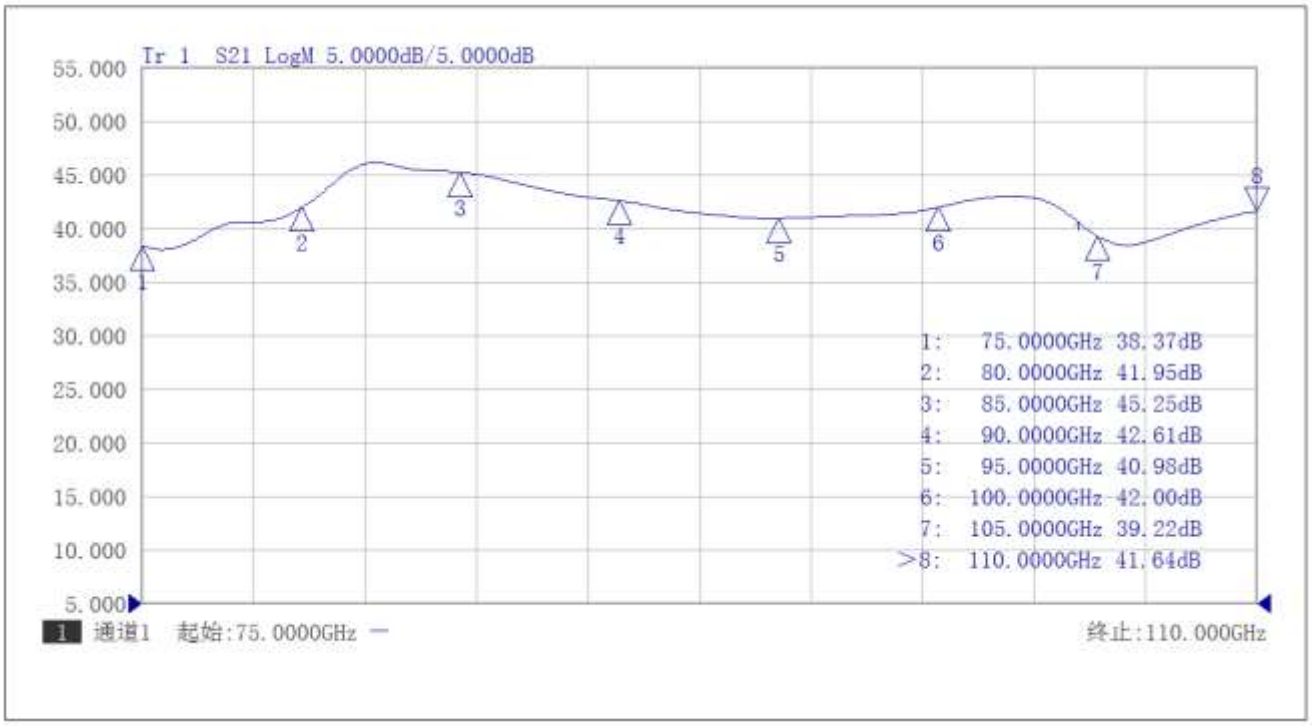
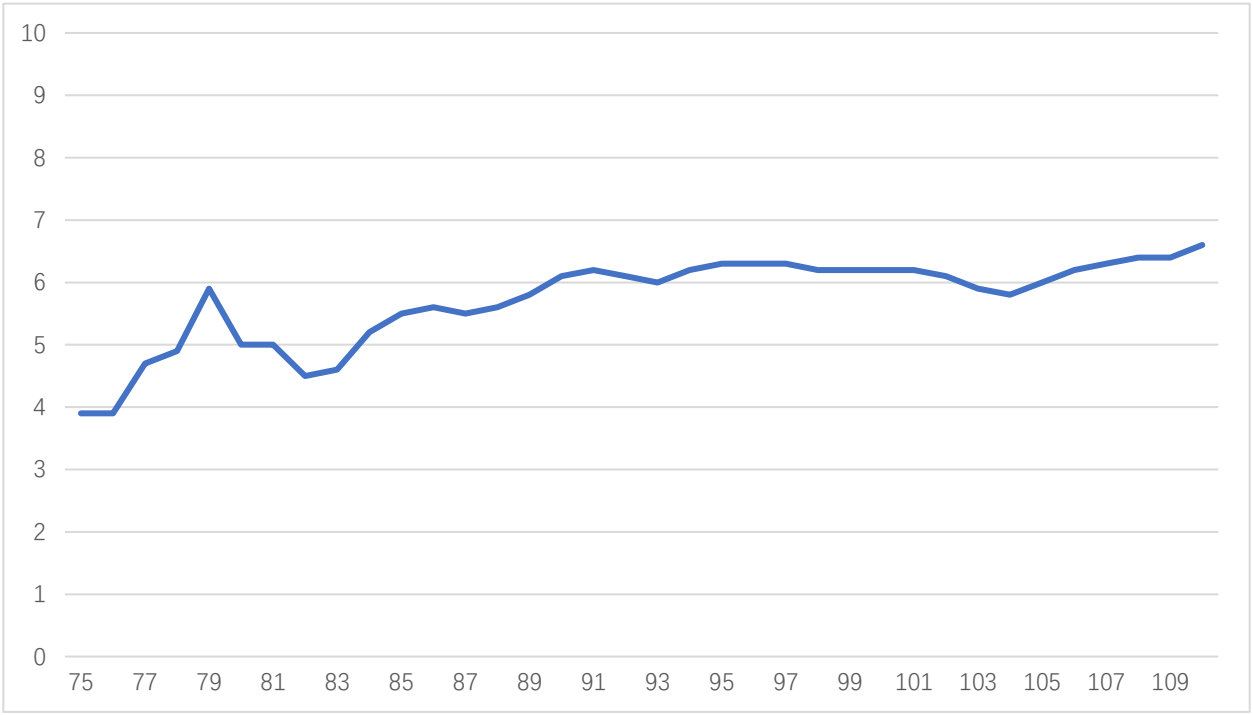
Test Data (25C)

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



Gain vs Frequency



Psat vs Frequency

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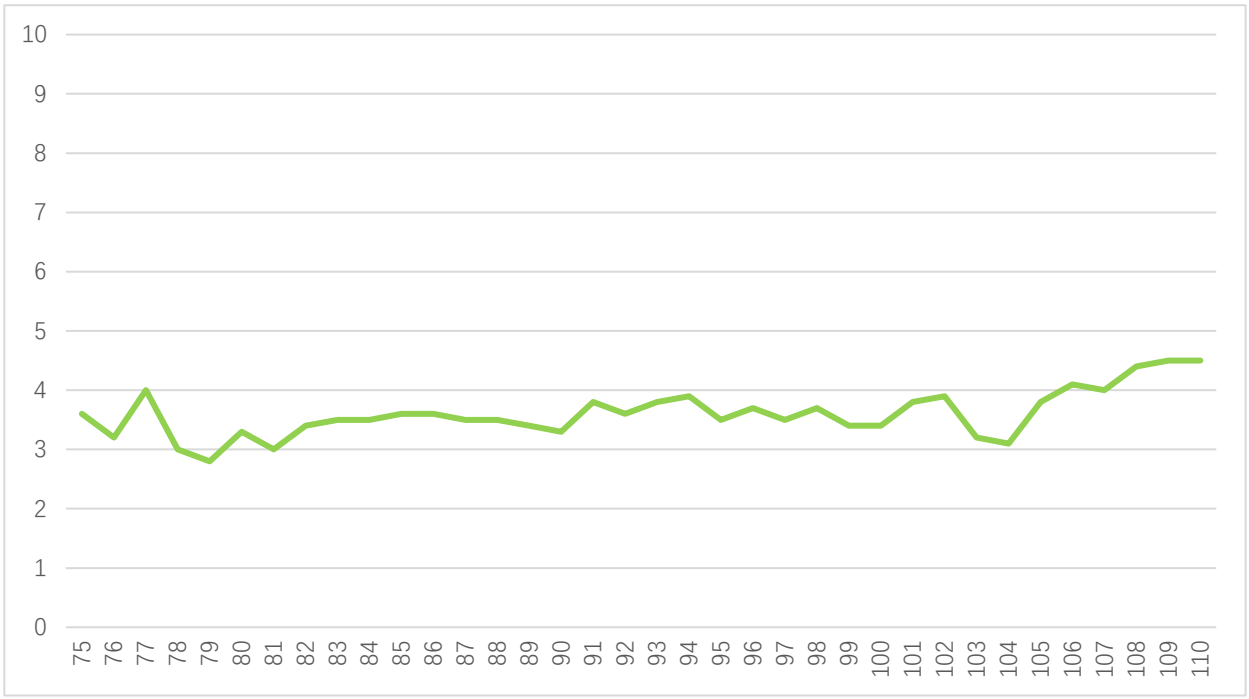

NF vs Frequency

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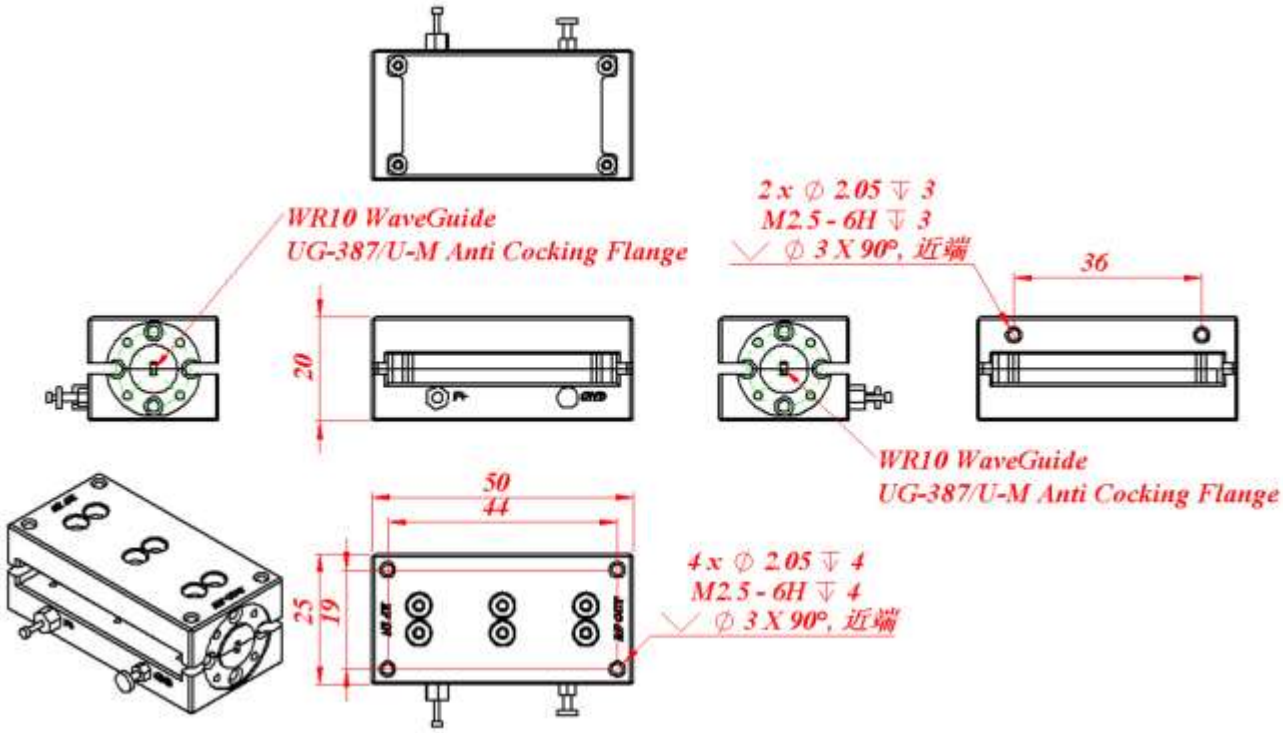
Dimension： （mm）



PCN

Date	Description
2022-10-1	Outline updated with anti-cocking flange. All RF Performance un-changed.

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