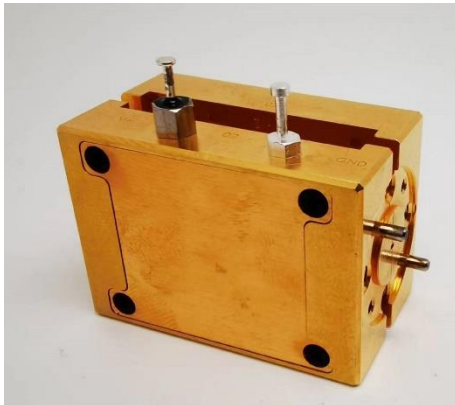


195-230GHz LNA, 20dB Gain, NF=8dB , WR-04

2022-9-1



Product Overview

AT-LNA-195230-2008E is a low noise amplifier operating in the 195-230 GHz frequency range. The LNA is packaged in a waveguide module using industry standard WR-04.

MMIC technology LNA Chip is used, which ensures reliable and repeatable unit-to-unit result. Higher gain amplifier can be achieved.

More information, please visit www.atmicrowave.com

Advantages

- ✓ Frequency: 195-230GHz
- ✓ High Gain: 20dB
- ✓ NF: 8dB
- ✓ Single Supply

Application

- ✓ G/J Band Communication
- ✓ FOD (Foreigner Objects Debris)
- ✓ Test Equipment
- ✓ ROF (RF Over Fiber)
- ✓ Radar System

Key Features

Parameter	Min	Typical	Max
Frequency		195-230GHz	
Gain	18	20dB	
Noise Figure		8dB	
Pin		-20dBm	-10dBm
Output P1dB		-3dBm	
Psat		+0dBm	
Drain Supply		+5V	+8V
Current		40mA	
Input VSWR		2	3.5
Output VSWR		3	5.5
Spec Temp		25C	





AT-LNA-195230-2008E

195-230GHz Low Noise Amplifier

Mechanical Information

Item	Description
Input Port	WR-04 UG-387/U-M Flange with anti-cocking Flange
Output Port	WR-04 UG-387/U-M Flange with anti-cocking Flange
Case Material	Copper
Finish	Gold Plated
Weight	150g
Size:	See outline

Absolute Maximum Ratings Table

Parameter	Value
Drain Supply	+8V
RF Input Power	+8dBm
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	Standard Module with DC Power Supply
PN-LCBT	L ow Cost, C ompact B ench- T op, +220V Supply with AC/DC Adapter



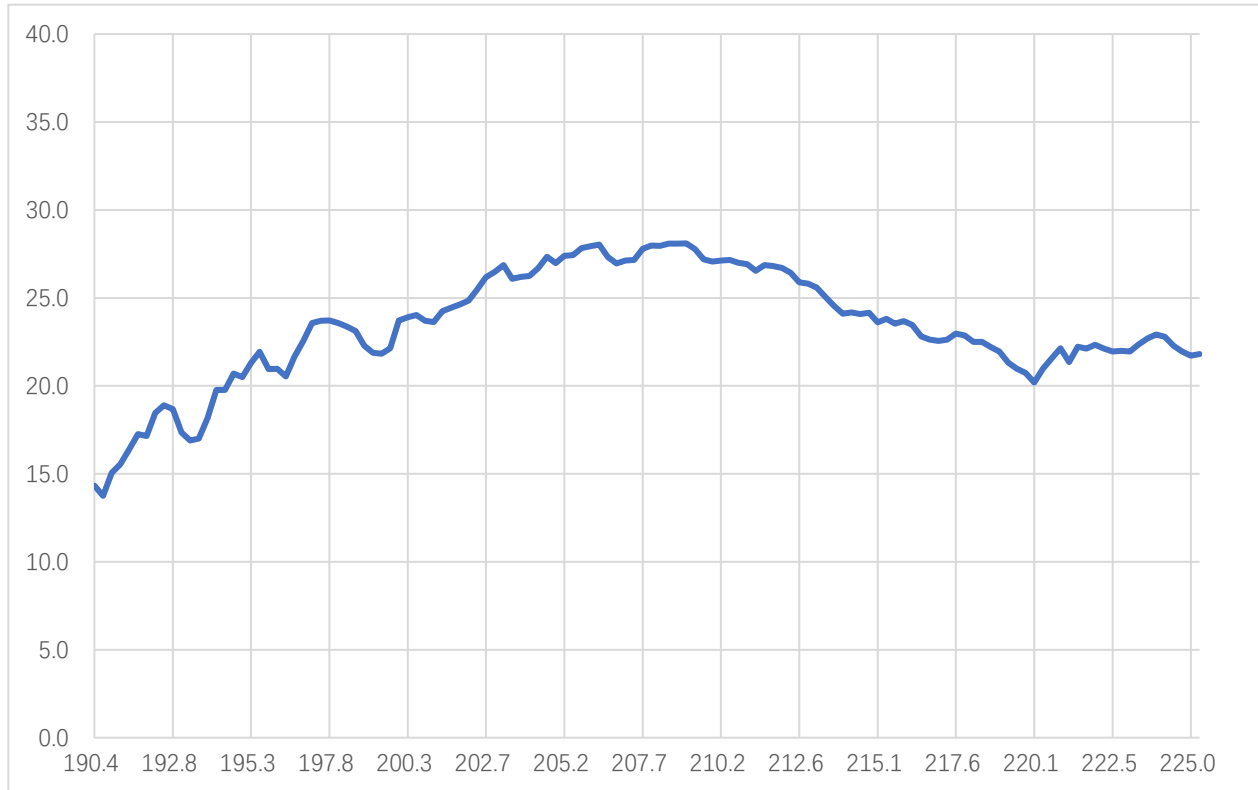


AT-LNA-195230-2008E

195-230GHz Low Noise Amplifier

Test Data (25C)

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



Gain vs Frequency



Dimension: (mm)

