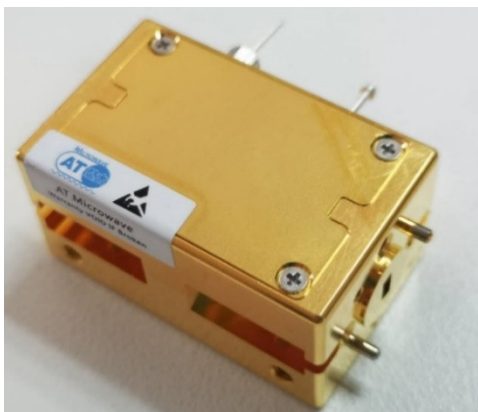


W Band Low Noise Amplifier, 30dB Gain



Product Overview

AT-LNA-75100-3055 is a low noise amplifier operating in the 75-100 GHz frequency range. The LNA is packaged in a waveguide module using industry standard WR10. The light weight gold plated aluminum module measures 45x25x20 mm.

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: 75-100GHz
- ✓ Gain: 30dB
- ✓ NF: 5.5dB
- ✓ Single Supply

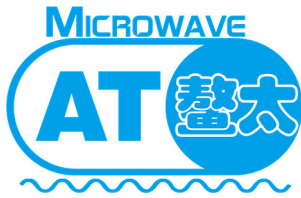
Application

- ✓ W band Imaging
- ✓ FOD (Foreigner Objects Debris)
- ✓ Test Equipment
- ✓ ROF (RF Over Fiber)
- ✓ Radar System

Key Features

Parameter	Min	Typical	Max
Frequency		75-100GHz	
Gain	25	30dB	
Noise Figure		5.5dB	
Psat		+10dBm	
Drain Supply		+5V	+6V
Current		270mA	
Input Return Loss		-6dB	
Output Return Loss		-6dB	
RF Input/output Connector		WR-10	
Dimension(LxWxH)		50x25x20 mm	





AT-LNA-75100-3055

75-100GHz 30dB Gain Low Noise Amplifier

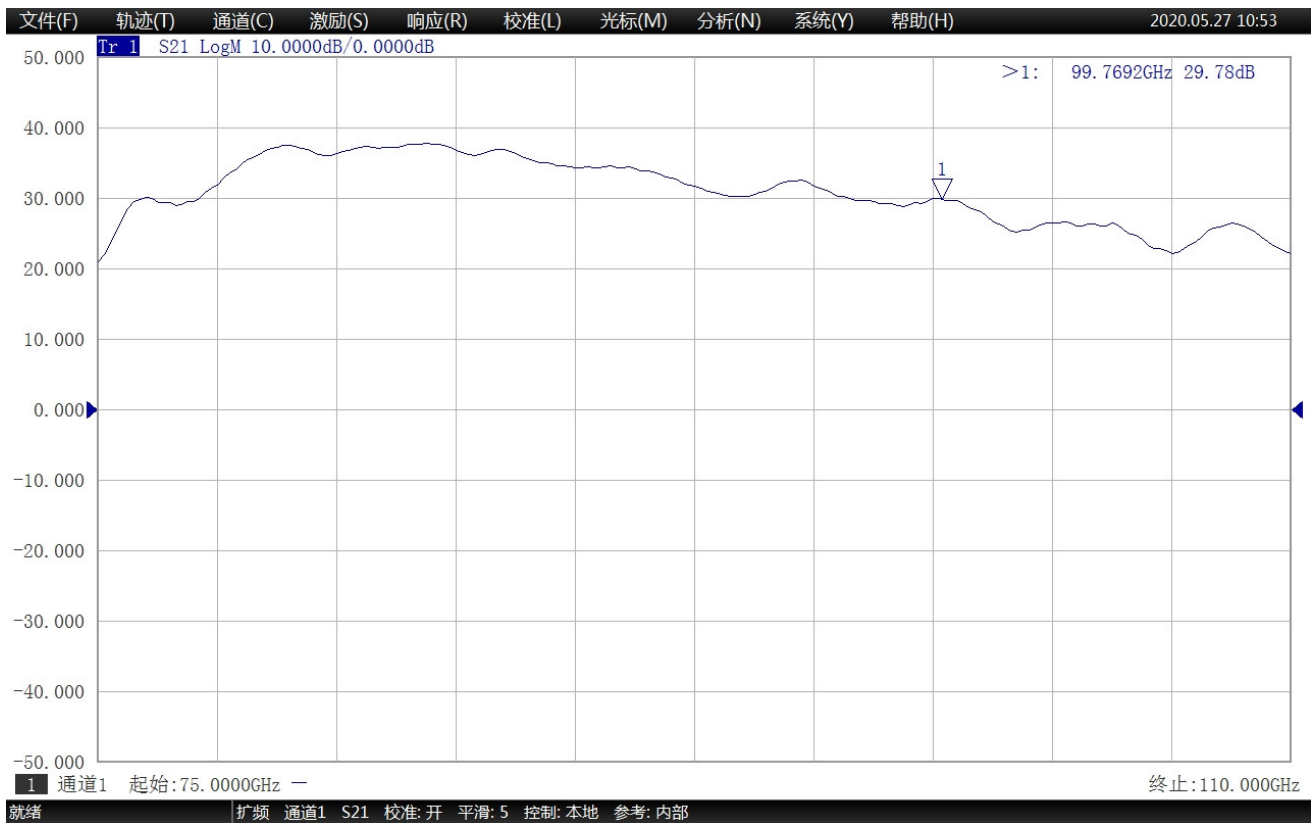
Absolute Maximum Ratings Table

Parameter	Value
Drain Supply	+6V
RF Input Power	-15dBm
Operating Temperature	0 to +50C
Storage Temperature	-65 to +150C

Notes:

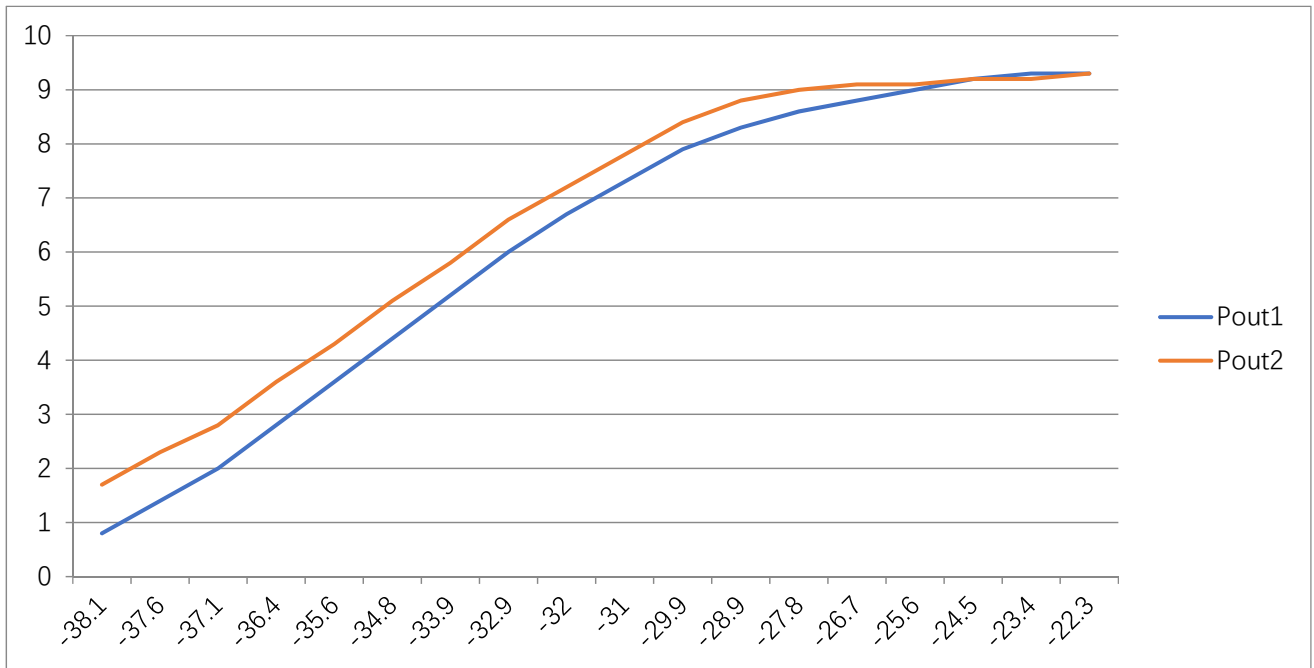
1. Datasheet may be changed according to update of MMIC, Raw materials , process, and so on.
2. This data is only for reference, not for guaranteed specifications.
3. Please contact AT Microwave team to make sure you have the most current data.

Typical Gain vs. Frequency



Gain vs Frequency





Pout vs Pin at 85GHz

Dimension: (mm)

