



AT-LNA-3350-3828T

Q Band Low Noise Amplifier

33-50GHz Broadband Low Noise Amplifier

Gain=38dB, NF=2.8dB, WR-22



Product Overview

AT-LNA-3350-3828T is low noise amplifier with 38dB gain in the frequency of 33-50GHz. The DC power requirement is +5V/195mA. The module is with a standard WR-22 waveguide. Input connector by 2.4mm connector is available according to request.

The LNA has high gain, high linearity, low input/output return loss and flat gain response.

More information, please visit www.atmicrowave.com

Advantages

- ✓ Frequency: 33-50GHz
- ✓ Small signal gain: 38dB
- ✓ NF 2.8dB
- ✓ Single Power Supply

Application

- ✓ Q Band Communication
- ✓ Test Equipment
- ✓ ROF (RF Over Fiber)
- ✓ Radar System

Key Features

Parameter	Min	Typical	Max
Frequency		33-50GHz	
Gain	35	38dB	
Drain Supply		+5V	+8V
NF		2.8dB	3.5
P1		+10dBm	
Current		150 mA	210mA
Input Return Loss		-7dB	
Output Return Loss		-7dB	
Spec Temp		25C	



Mechanical Information

Item	Description
Input Port	WR-22
Output Port	WR-22
Case Material	Copper
Finish	Gold Plated
Weight (Without Heatsink)	200g
Size:	TBD

Absolute Maximum Ratings Table

Parameter	Value
Drain Supply	+9V
RF Input Power	+10dBm
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.

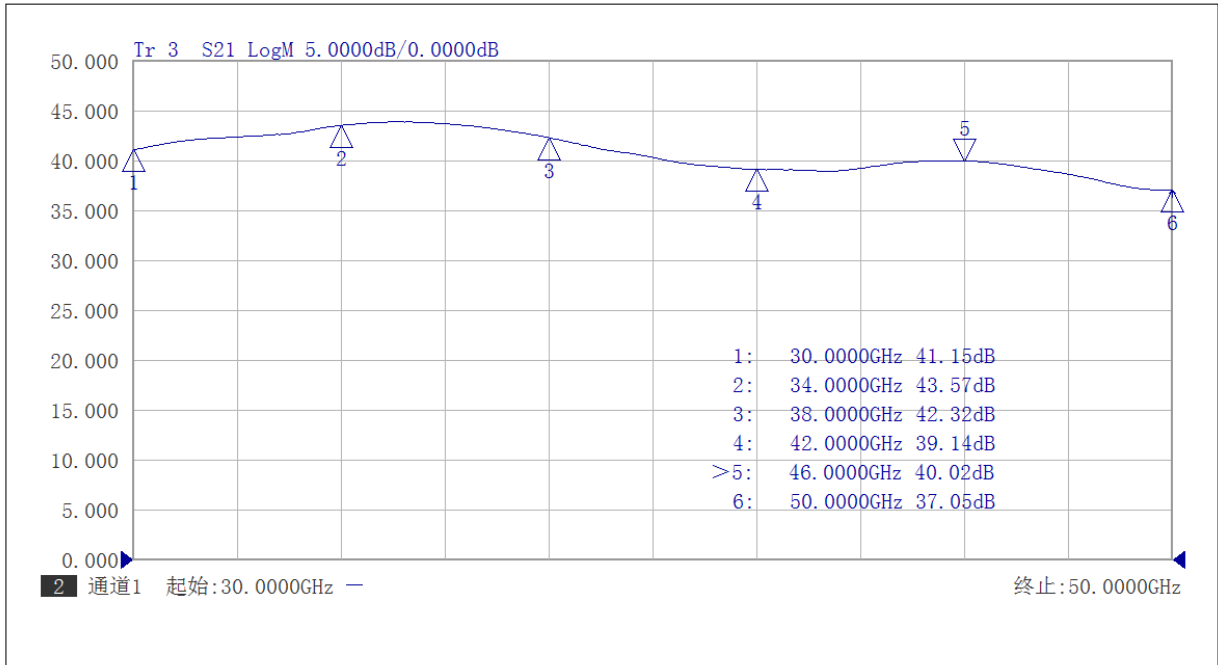
Part Number Selection Guide

Item	Description
PN	Stand Module with DC Power Supply
PN-LCBT	L ow Cost, C ompact B ench- T op, +220V Supply with AC/DC Adapter

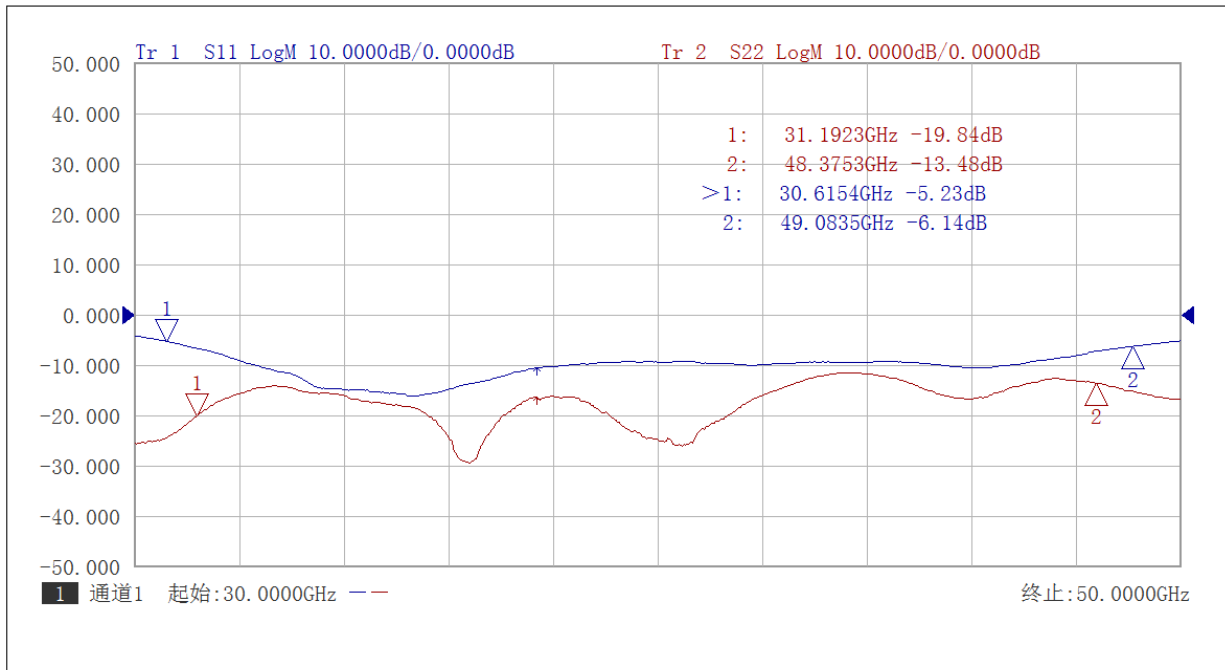


Test Data (25C)

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

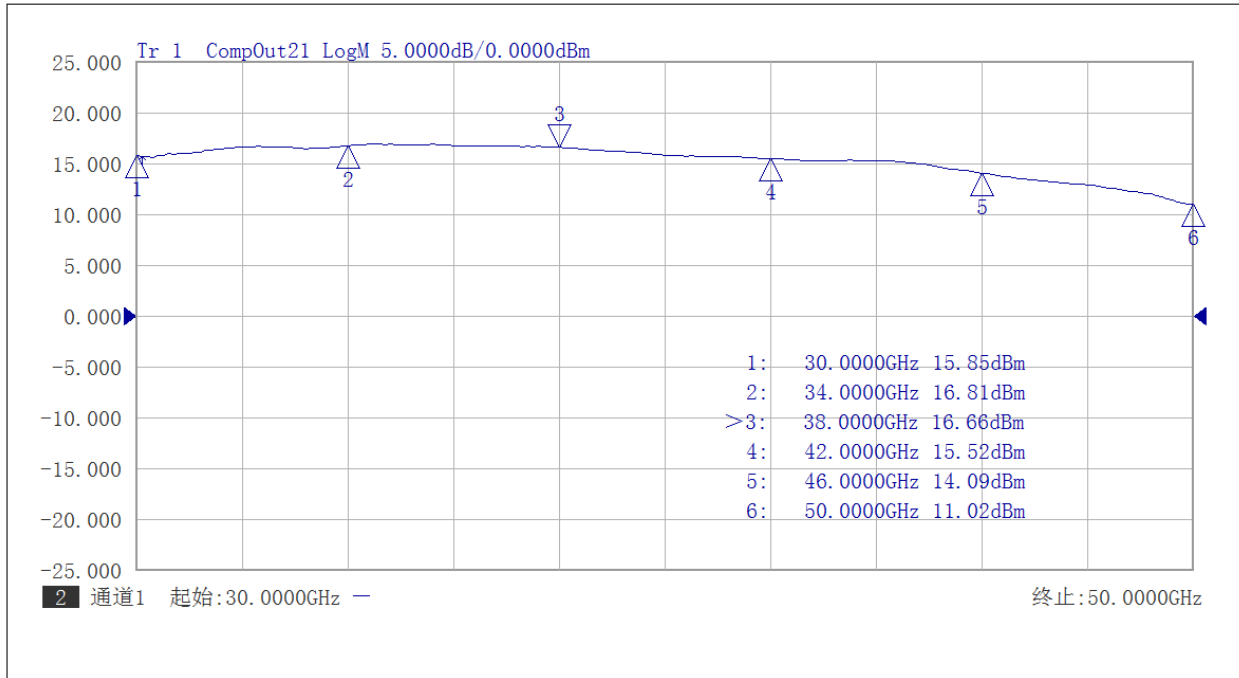


Gain vs Frequency

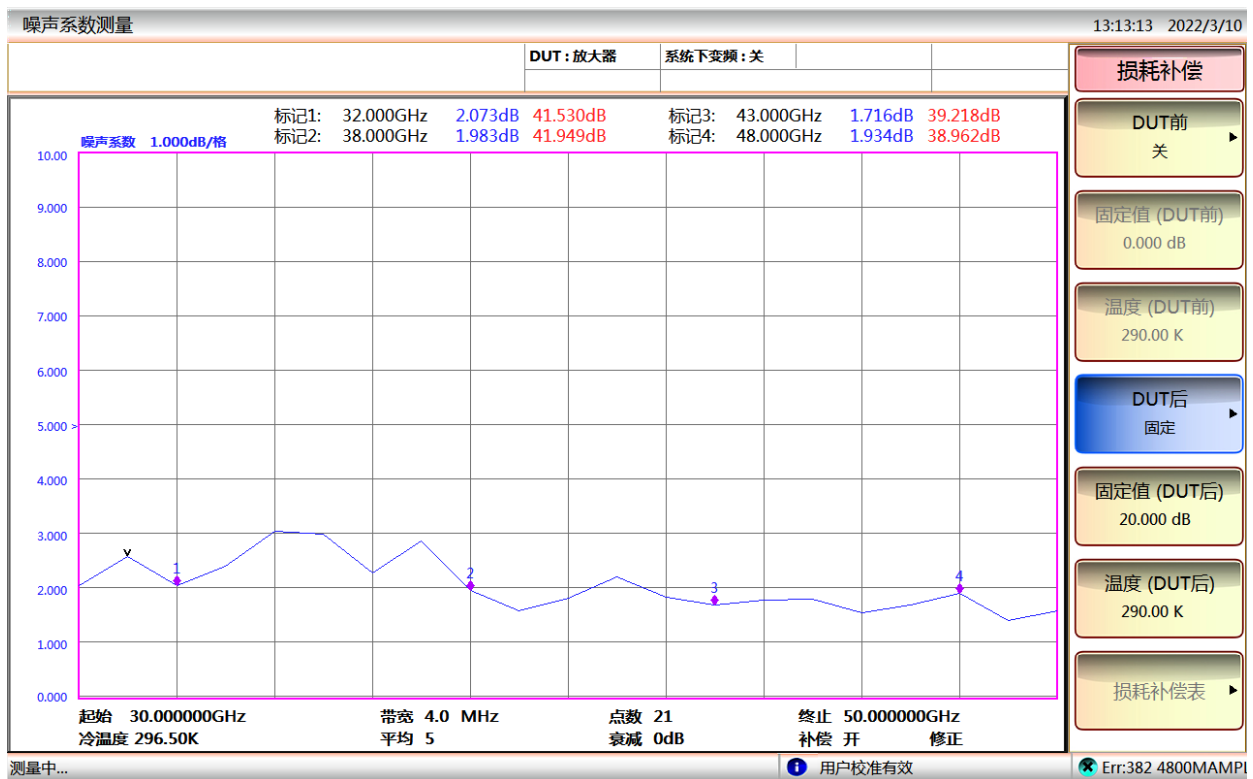


Return Loss vs Frequency





P1db vs Frequency



NF vs Frequency

