

2-43.5GHz Low Noise Amplifier



Product Overview

AT-LNA-0243-2704P22 is high gain low noise amplifier with 27dB gain in the frequency of 2-43.5GHz. The DC power requirement is +12V/260mA. The module is with 2.92mm connector.

AT Microwave can provide all kinds of coaxial low noise amplifiers, with frequency from 0.01-67GHz, gain from 20 to 60dB, Pout from +5 to +27dBm, and connectors from SMA to 1.85mm. If you don't find what you need, just send us email sales@atmicrowave.com

Advantages

- ✓ Frequency: 2-43.5GHz
- ✓ Small signal gain: 27dB
- ✓ NF=4dB
- ✓ Single Power Supply

Application

- ✓ 5G Communication
- ✓ Test Equipment
- ✓ ROF (RF Over Fiber)
- ✓ Radar System

Key Features

Parameter	Min	Typical	Max
Frequency		2-43.5GHz	
Gain	27	30 dB	
Gain Flatness		+/-1.5dB	+/-3dB
NF(2-40GHz)		4dB	6.5dB
P1dB(2-40GHz)		+20dBm	
Psat (2-40GHz)		+22dBm	
Drain Supply	+9V	+12V	+13V
Current		260 mA	
Input Return Loss		-10dB	
Output Return Loss		-10dB	
Spec Temp		27C	





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Mechanical Information

Item	Description
Input Port	2.92mm Female
Output Port	2.92mm Female
Case Material	Copper
Finish	Gold Plated
Package Sealing	Epoxy Sealed
Weight	80g
Size:	SEE OUTLINE

Absolute Maximum Ratings Table

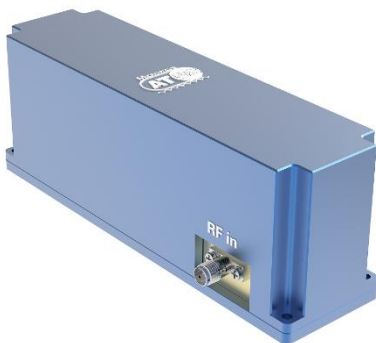
Parameter	Value
Drain Supply	+15V
RF Input Power	+12 dBm
Operating Temperature	-40 to +85C
Storage Temperature	-55 to +125C

Notes:

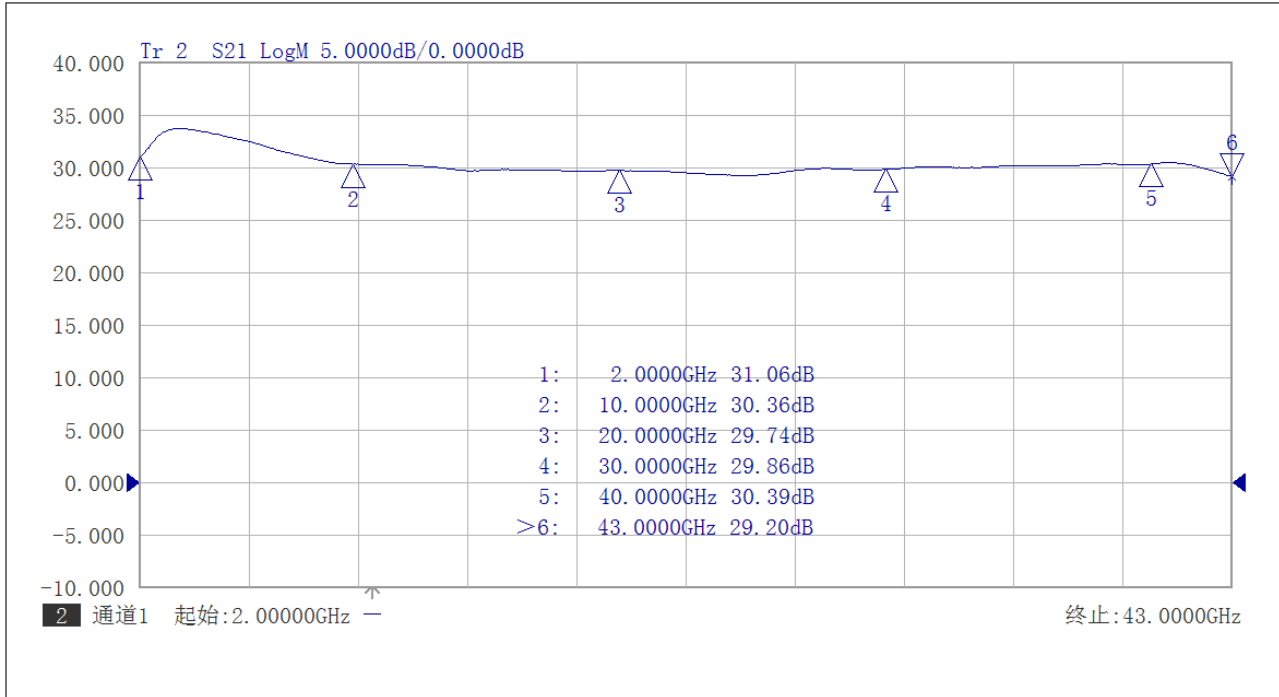
1. Datasheet may be changed according to update of MMIC, Raw materials , process, and so on.
2. This data is only for reference, not for guaranteed specifications.
3. Please contact AT Microwave team to make sure you have the most current data.

Part Number Selection Guide

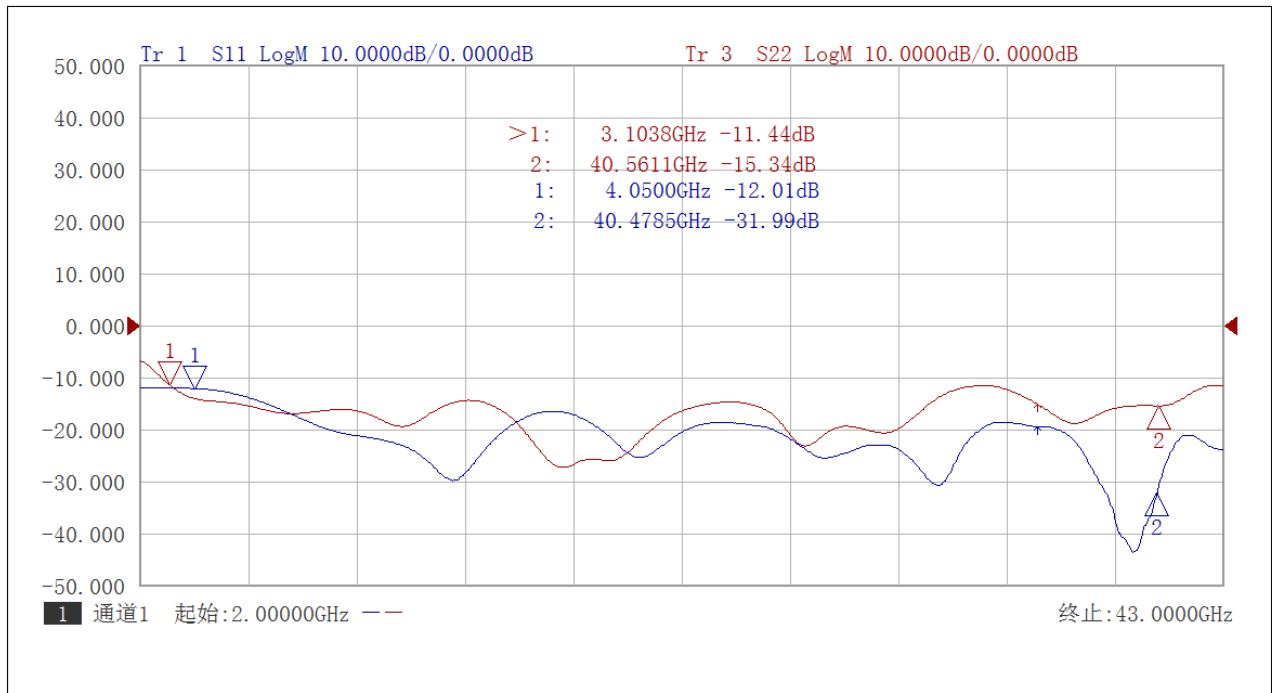
Item	Description
AT-LNA-0243-2704P22	Stand Module with DC Power Supply
AT-LNA-0243-2704P22- LCBT	L ow Cost, C ompact B ench- T op, +220V Supply with AC/DC Adapter



Test Data:

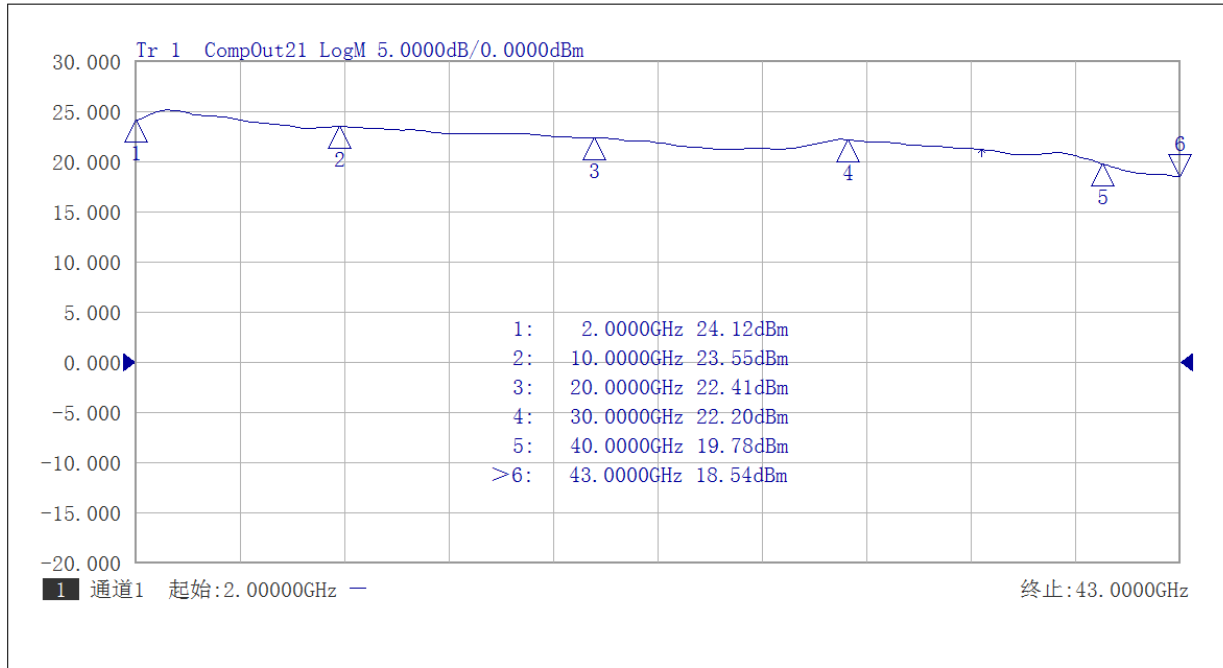


Gain vs Frequency

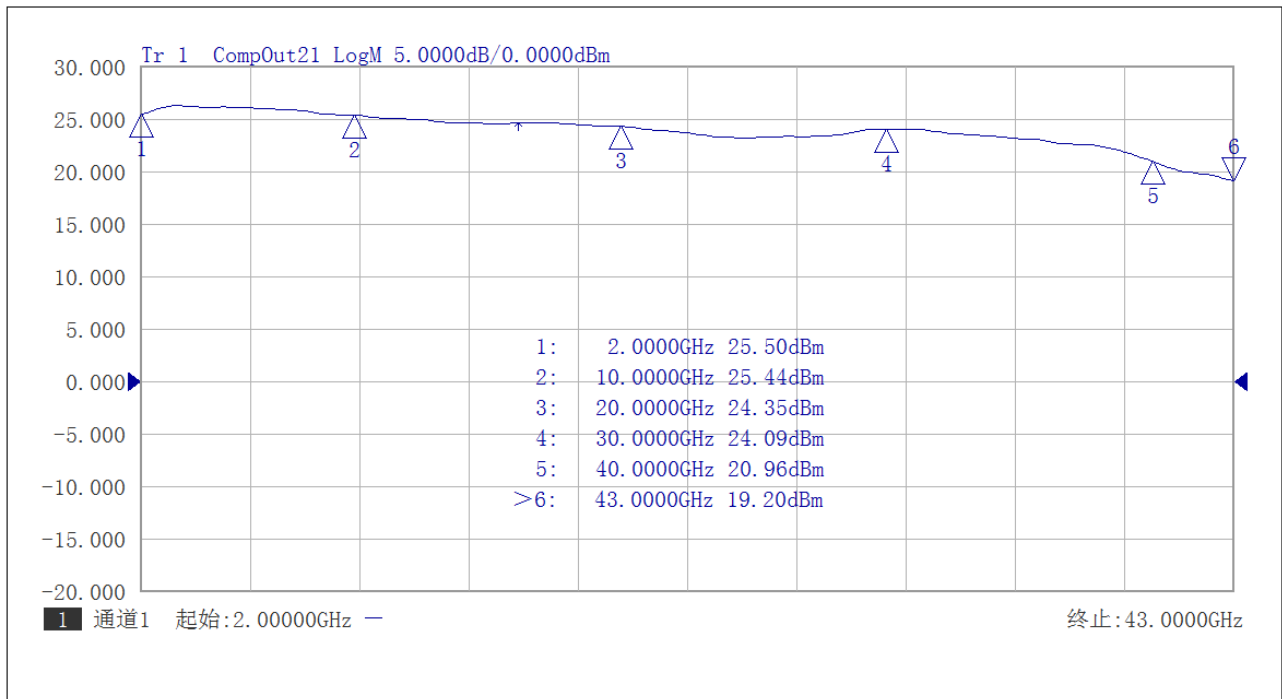


Return Loss vs Frequency



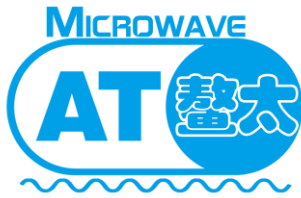


P1db vs Frequency



P3db vs Frequency





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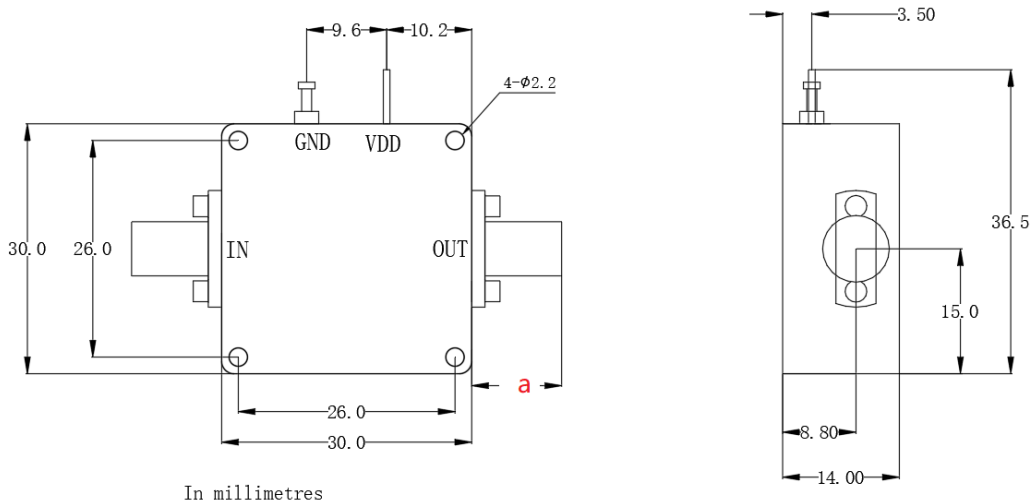
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NF vs Frequency



Dimension: (unit in mm)



	<26.5GHz	<40GHz	<50GHz	<67GHz
Connector	SMA	2.92mm	2.4mm	1.85mm
Length of a	9.4mm	9.5mm	10.8mm	11.3mm

Note: Female Default. Contact with us for other types.

-LCBT Option Dimension: (unit in mm)

