

## 37-44GHz Super-Low NF Low Noise Amplifier



### Product Overview

AT-LNA-3744-2203T is super low NF, broadband low noise amplifier from 37GHz to 44GHz. The NF is 3dB for the full-band. The DC power requirement is +5V/30mA. It also works with power supply from +5V to +8V. The module is with 2.4mm Female.

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.

More information, please visit [www.atmicrowave.com](http://www.atmicrowave.com)

### Advantages

- ✓ Frequency: 37-44GHz
- ✓ Small signal gain: 22dB
- ✓ Noise Figure: 3.0 dB
- ✓ Single Power Supply

### Application

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

### Key Features

Parameter	Min	Typical	Max
Frequency		37-44GHz	
Gain	20dB	22dB	
Gain Flatness		+/-1dB	
NF		3dB	3.5dB
P1dB		+0dBm	
Psat		+3dBm	
Drain Supply		+5V	+8V
Current		30 mA	
Input Return Loss	-5	-8 dB	
Output Return Loss	-5	-8 dB	
Spec Temp		25C	





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## Mechanical Information

Item	Description
Input Port	2.4mm Female
Output Port	2.4mm Female
Case Material	Copper
Package Sealing	Epoxy Sealed
Finish	Gold Plated
Weight (Without Heatsink)	50g
Size:	See outline

## Absolute Maximum Ratings Table

Parameter	Value
Drain Supply	+13V
RF Input Power	+0dBm
Operating Temperature(note)	-40 to +70C
Storage Temperature	-65 to +150C

### Caution:

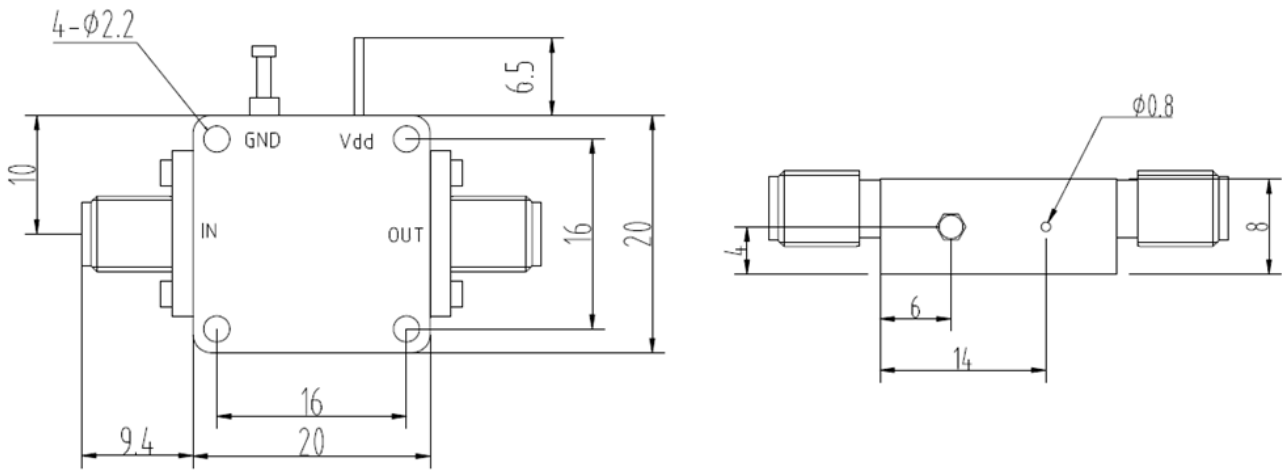
Please pay attention to the case temperature. If case temperature exceed higher than +50C, heat sink and fan are required, or the amplifier may be damaged.

### 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.



**Dimension:** (unit in mm)



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

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

