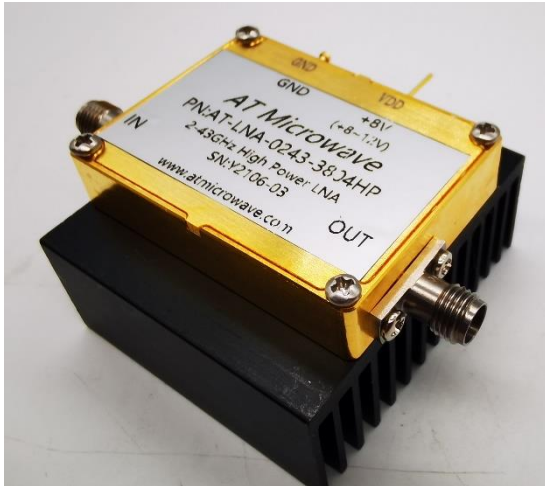


# AT-LNA-0243-3804HP

## 2-43GHz Low Noise Amplifier

2021-5-31

## 2-43GHz Low Noise Amplifier



### Product Overview

AT-LNA-0243-3804HP is high gain low noise amplifier with 38dB gain in the frequency of 2-43GHz. The DC power requirement is +8V/330mA. 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.

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

### Advantages

- ✓ Frequency: 2-43GHz
- ✓ Small signal gain: 38dB
- ✓ NF=4dB
- ✓ Single Power Supply

### Application

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

## Key Features

| Parameter          | Min | Typical | Max   |
|--------------------|-----|---------|-------|
| Frequency          |     | 2-43GHz |       |
| Gain               | 36  | 38 dB   |       |
| NF                 |     | 4dB     | 6     |
| P1dB               |     | +20dBm  |       |
| Psat               |     | +22dBm  |       |
| Drain Supply       |     | +8V     | +12V  |
| Current            |     | 330 mA  | 380mA |
| Input Return Loss  |     | -10dB   |       |
| Output Return Loss |     | -10dB   |       |
| Spec Temp          |     | 25C     |       |

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# AT-LNA-0243-3804HP

2-43GHz Low Noise Amplifier

## 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 (Without Heatsink) | 80g           |
| Size:                     | 45x34x8.5 mm  |

## Absolute Maximum Ratings Table

| Parameter                   | Value        |
|-----------------------------|--------------|
| Drain Supply                | +15V         |
| RF Input Power              | +12dBm       |
| Operating Temperature(note) | -20 to + 70C |
| Storage Temperature         | -65 to +150C |

Note: -40 to +85C is available according to request.

### Caution:

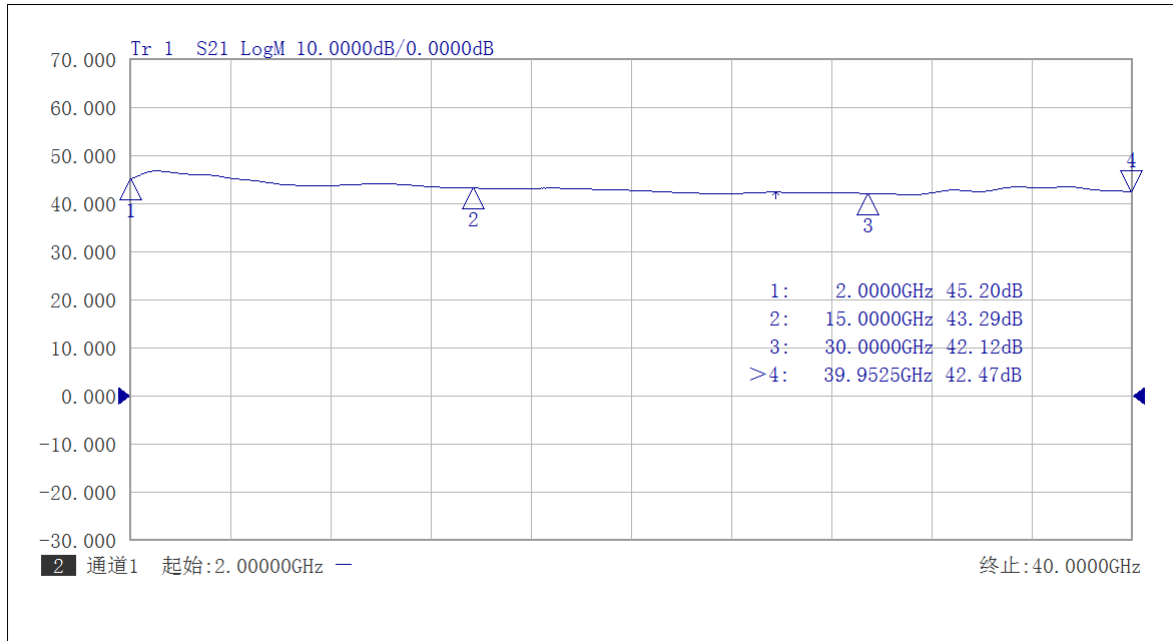
Please pay attention to the case temperature. If case temperature exceed higher than +50C, heat sink and fan are required, or the amplifier may be damaged.

## Notes:

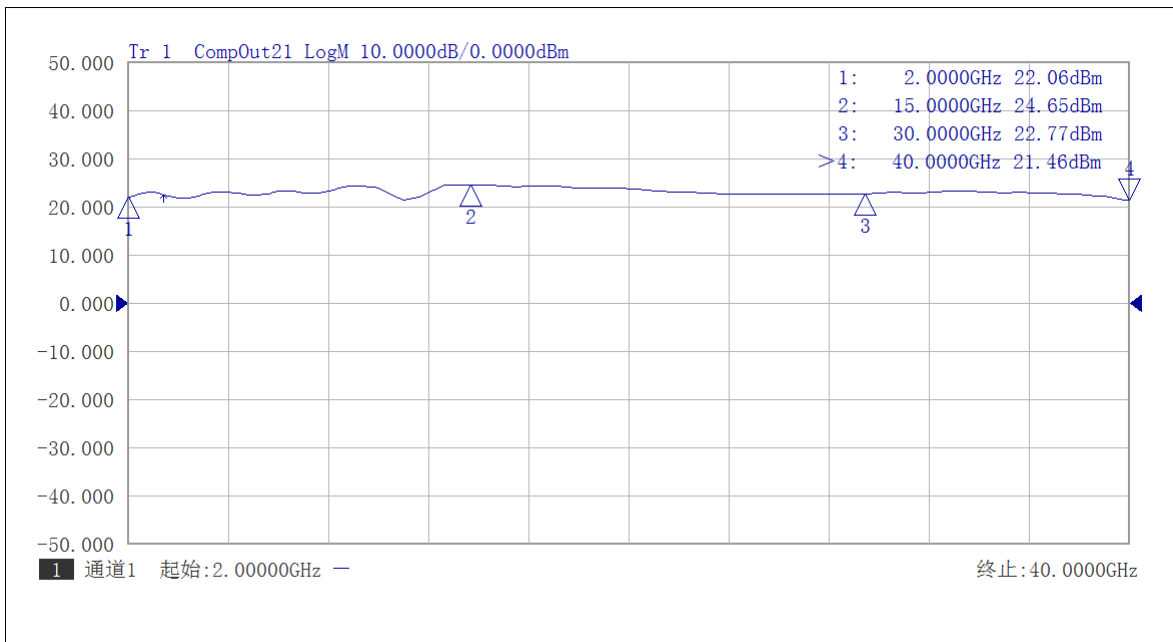
1. Datasheet may be changed according to update of MMIC, Raw materials , process, and so on.
2. This data is only for reference, not for guaranteed specifications.
3. Please contact AT Microwave team to make sure you have the most current data.



## Test Data:

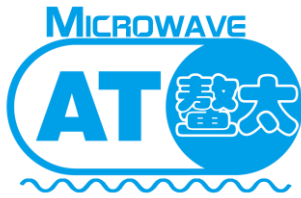


S21 Gain VS Frequency



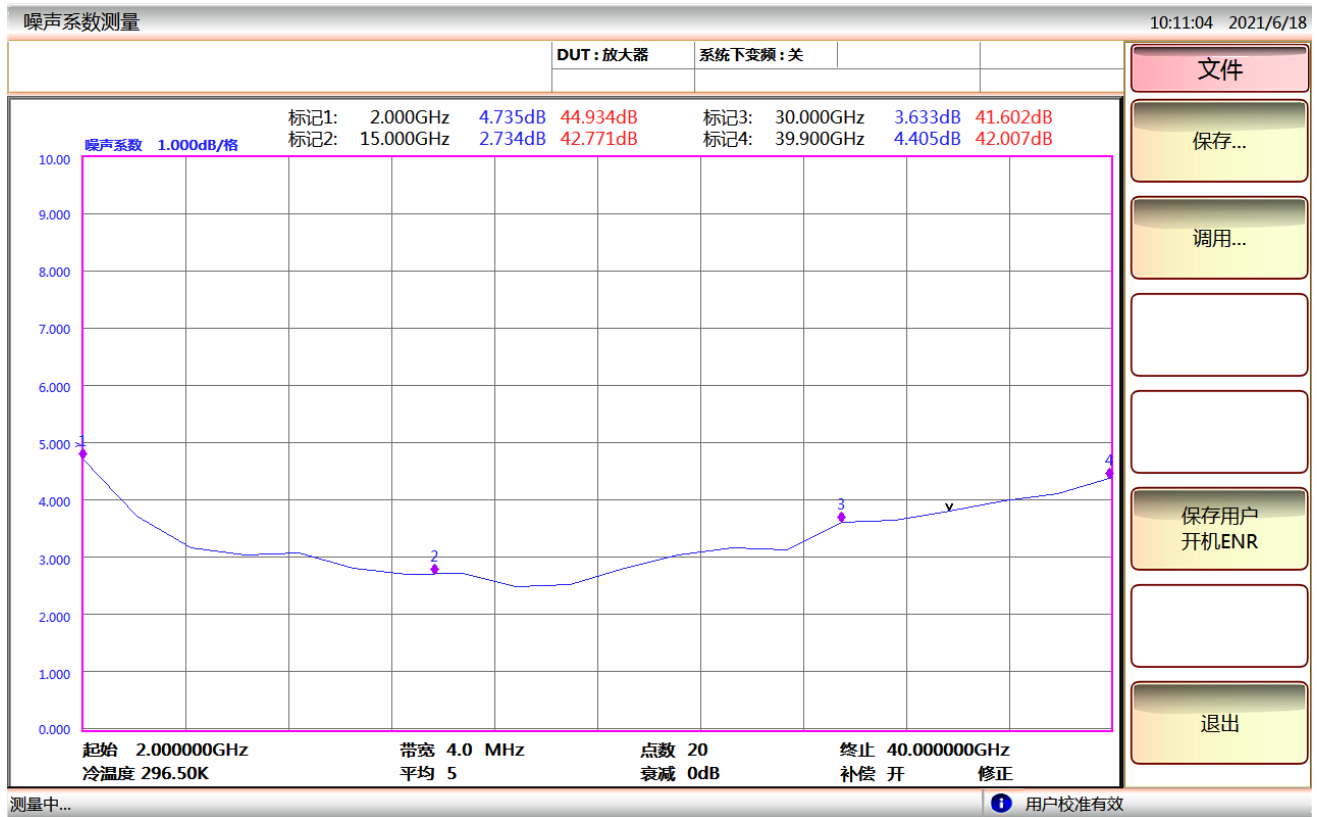
P1 vs Frequency





# AT-LNA-0243-3804HP

## 2-43GHz Low Noise Amplifier



NF vs Frequency

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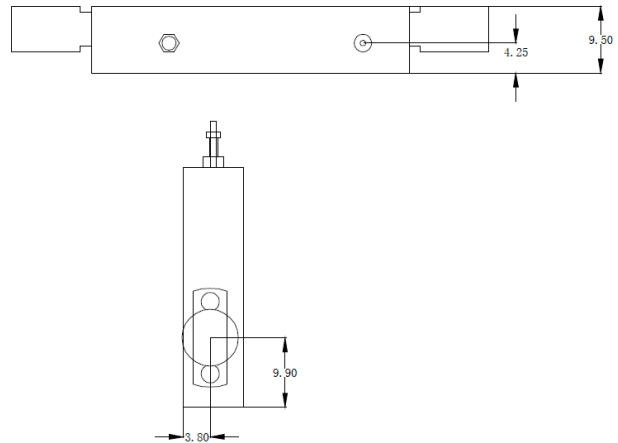
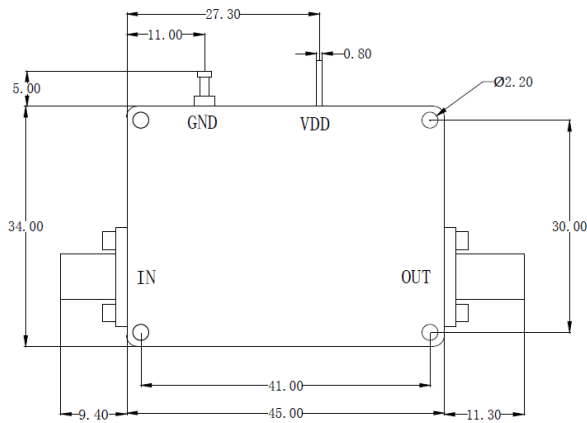
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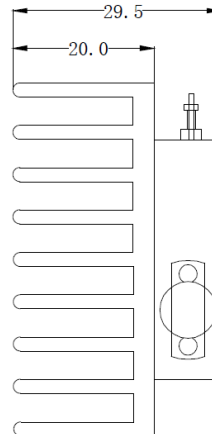
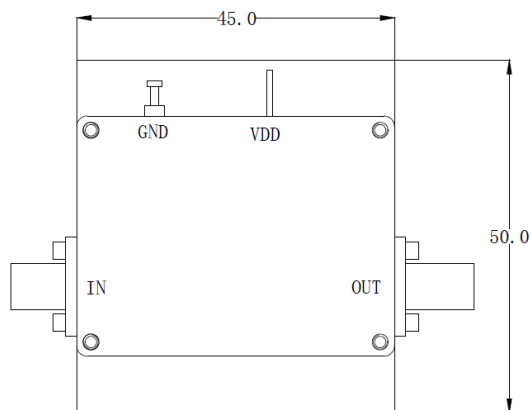


## Dimension: (unit in mm)



|             | <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.



Including a small heatsink without Fan if output Power higher than +20dBm.  
Customers can removed it or use their own heatsink according to actual situation.

Heat Sink Required If Case Temp Higher Than 50C

