

37-44GHz Low Noise Amplifier



Product Overview

AT-LNA-3744-4203T is high gain low noise amplifier with 42dB gain in the frequency of 37-44GHz. The DC power requirement is +5V/150mA. The module is with 2.4mm Female 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: 37-44GHz
- ✓ Small signal gain: 42dB
- ✓ NF=3.5dB
- ✓ Single Power Supply

Application

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

Key Features

| Parameter | Min | Typical | Max |
|--------------------|-----|----------|-------|
| Frequency | | 37-44GHz | |
| Gain | 40 | 42 dB | |
| Gain Flatness | | +/-2dB | |
| NF | | 3.0dB | 3.8dB |
| P1Db | | +13dBm | |
| Psat | | +15dBm | |
| Drain Supply | | +5V | +8V |
| Current | | 150 mA | 180mA |
| Input Return Loss | -5 | -10dB | |
| Output Return Loss | -5 | -10dB | |
| Spec Temp | | 25C | |





AT-LNA-3744-4203T

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Mechanical Information

| Item | Description |
|---------------------------|---------------------|
| Input Port | 2.4mm/2.92mm Female |
| Output Port | 2.4mm/2.92mm Female |
| Case Material | Copper |
| Finish | Gold Plated |
| Package Sealing | Epoxy Sealed |
| Weight (Without Heatsink) | 80g |
| Size: | 30x30x14 mm |

Order Information

| Part Number | Description |
|--------------------------|--------------------------|
| AT-LNA-3744-4203T | 2.4mm Female, In default |
| AT-LNA-3744-4203T-29F29F | 2.92mm Female Connector |

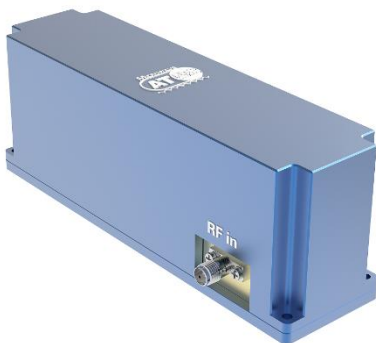
Absolute Maximum Ratings Table

| Parameter | Value |
|-----------------------------|--------------|
| Drain Supply | +13V |
| RF Input Power | +0 dBm |
| Operating Temperature(note) | -20 to + 70C |
| Storage Temperature | -65 to +150C |

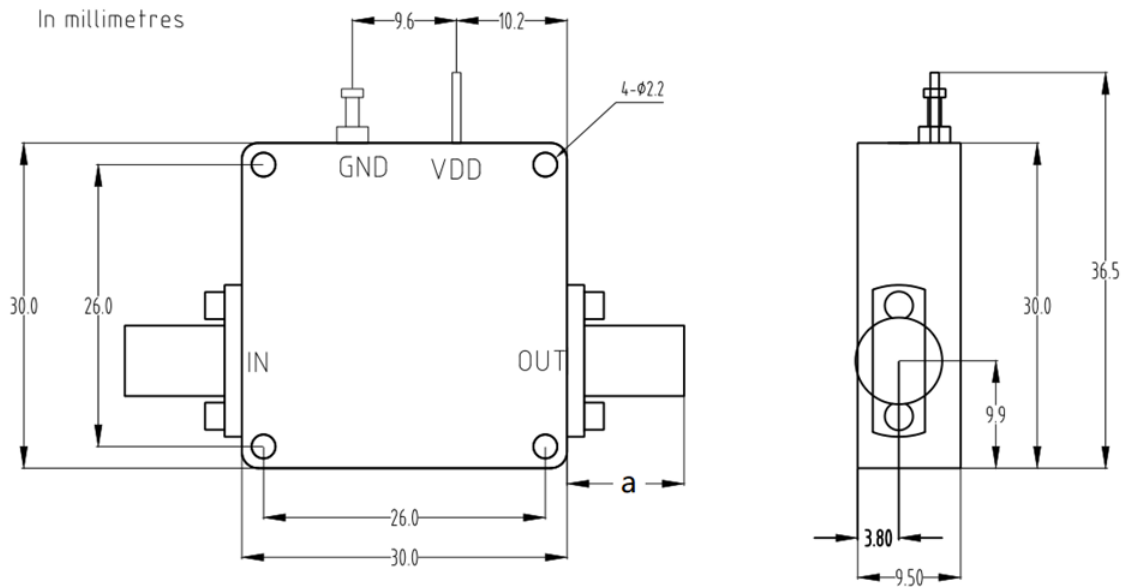
Note: -40 to +85C is available according to request.

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 |



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.

