

1-18GHz LNA, High Power



Product Overview

AT-LNA-0118-4002P29 is high gain low noise amplifier with 40dB gain in the frequency of 1-18GHz. The DC power requirement is +12V/450mA. The module is with SMA 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: 1-18GHz
- ✓ Small signal gain: 40dB
- ✓ NF=2dB
- ✓ Single Power Supply

Application

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

Key Features

Parameter	Min	Typical	Max
Frequency	1GHz		18GHz
Gain		40 dB	
NF		2dB	2.5
Input Power		-30dBm	-20dBm
P1dB		+28dBm	
Psat		+29dBm	
Drain Supply		+12V	+13V
Current		450 mA	
Input Return Loss		-8dB	
Output Return Loss		-10dB	
Spec Temp		25C	





AT-LNA-0118-4002P29

1-18GHz High Gain Low Noise Amplifier

Mechanical Information

Item	Description
Input Port	SMA Female
Output Port	SMA Female
Case Material	Copper
Finish	Gold Plated
Weight (Without Heatsink)	80g
Size:	60X45X14 mm

Absolute Maximum Ratings Table

Parameter	Value
Drain Supply	+13V
RF Input Power	+15 dBm
Operating Temperature (note)	-20 to + 70C
Storage Temperature	-65 to +150C

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

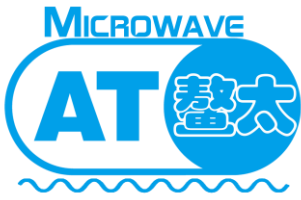
Caution:

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.

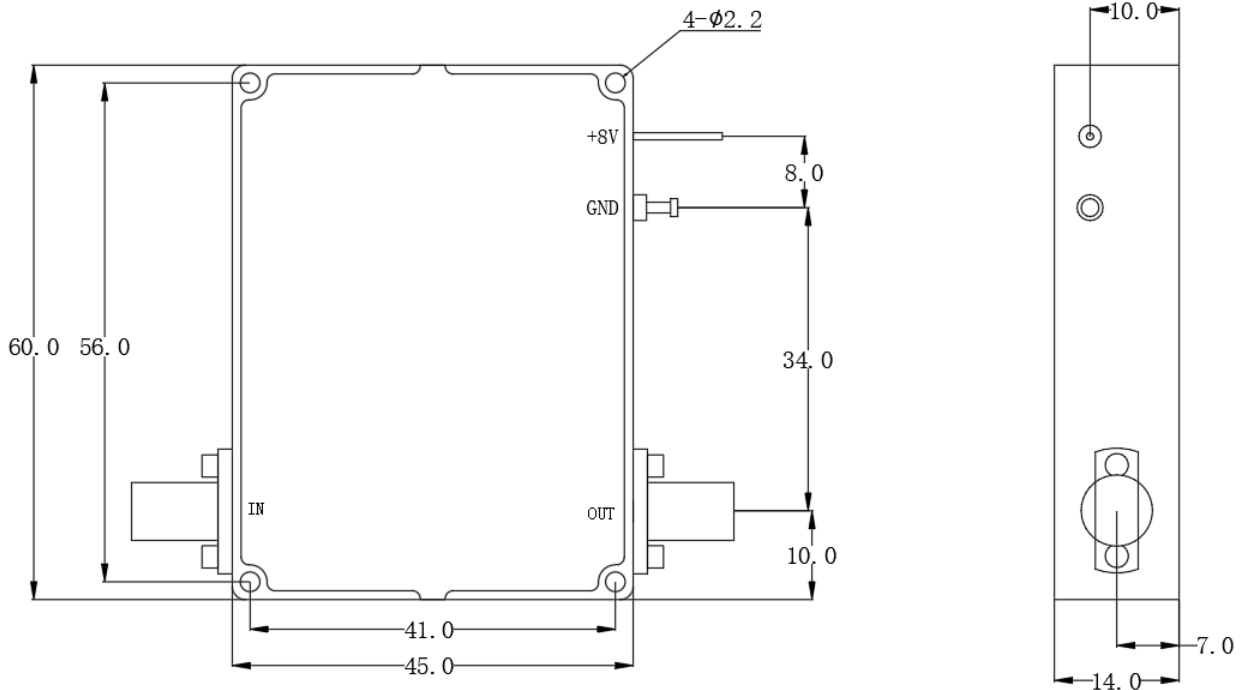




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Dimension: (unit in mm)



Heat Sink Required If Case Temp Higher Than 50C

