

AT-LNA-0618-3002P27

6-18GHz High Power Low Noise Amplifier

6-18GHz High Power LNA,



Product Overview

AT-PA-0618-3002P27 is high power Low noise amplifier with +27dBm output power in the frequency of 6-18GHz. The DC power requirement is +12V/450mA. The module is with SMA connector.

The power amplifier has high gain, high linearity, low input/output return loss and flat gain response.

More information, please visit www.atmicrowave.com

Advantages

- ✓ Frequency: 6-18GHz
- ✓ Psat:+27dBm
- ✓ Small signal gain: 30dB
- ✓ Single Power Supply

Application

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

Key Features

Parameter	Min	Typical	Max
Frequency		6-18GHz	
Gain	28	30dB	
P1dB		+26dBm	
Psat		+27dBm	
Drain Supply		+12V	+13V
Current		450 mA	
Input Return Loss		-8dB	
Output Return Loss		-8dB	
Spec Temp		25C	





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Mechanical Information

Item	Description
Input Port	SMA Female
Output Port	SMA Female
Case Material	Copper
Finish	Nickel Plated
Weight (Without Heatsink)	150g
Size:	50x40x12 mm

Absolute Maximum Ratings Table

Parameter	Value
Drain Supply	+15V
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:

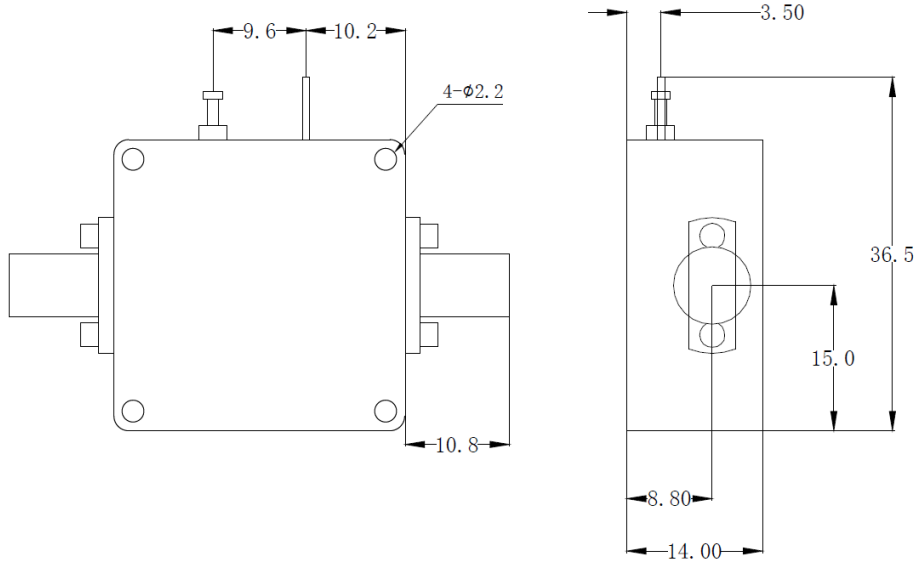
Please pay attention to the case temperature. If case temperature exceed higher than +50C, heat sink and fan are required, or the amplifier may be damaged.

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.

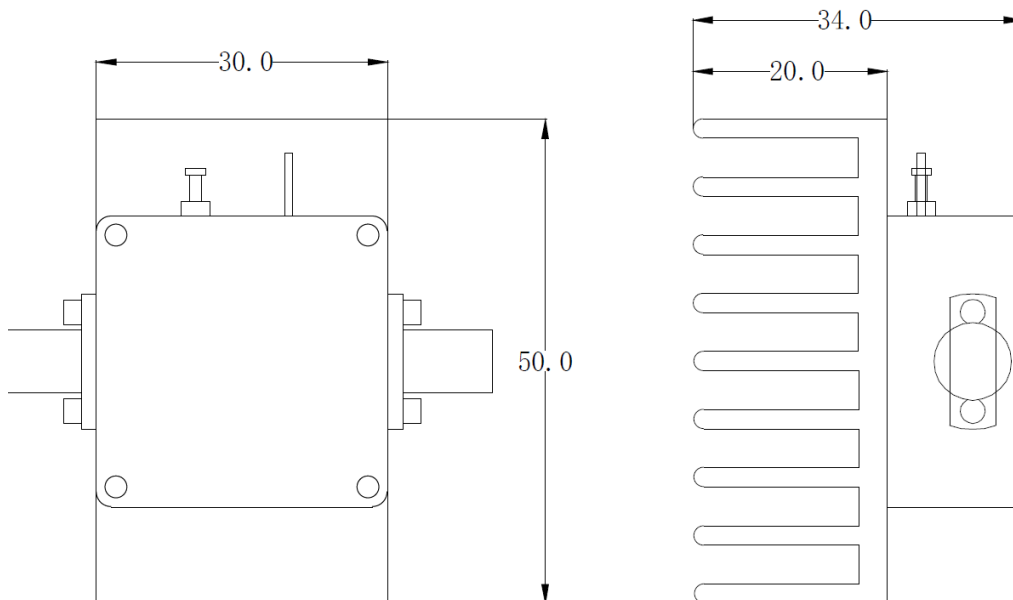


Dimension: (unit in mm)



	<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.



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 During Operation

