

18-29GHz Broadband Amplifier, +28dBm



Product Overview

AT-PA-1829-3728X is high gain power amplifier with +28dBm output power in the frequency of 18-28GHz. The DC power requirement is +8V/830mA. The module is with 2.92mm 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: 18-28GHz
- ✓ Psat:+28dBm
- ✓ Small signal gain: 37dB
- ✓ Single Power Supply

Application

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

Key Features

Parameter	Min	Typical	Max
Frequency		18-28GHz	
Gain	35dB	37dB	
Gain Flatness		+/-1.5dB	
P1dB		+26dBm	
Psat		+28dBm	
Drain Supply	+8V	+12V	+15V
Current NO RF	0.83	0.62A	0.5A
IDD at Psat	0.96A	0.72A	0.6A
NF		3.5dB	
Input Return Loss		-10dB	
Output Return Loss		-10dB	
Spec Temp		25C	





AT-PA-1829-3728X

18-29GHz Power Amplifier

Mechanical Information

Item	Description
Input Port	2.92mm Female
Output Port	2.92mm Female
Case Material	Copper
Finish	Gold Plated
Weight (Without Heatsink)	150g
Size:	60x45x14 mm

Absolute Maximum Ratings Table

Parameter	Value
Drain Supply	+18V
RF Input Power	+20 dBm
Operating Temperature	-20 to +75C
Storage Temperature	-65 to +150C

Caution:

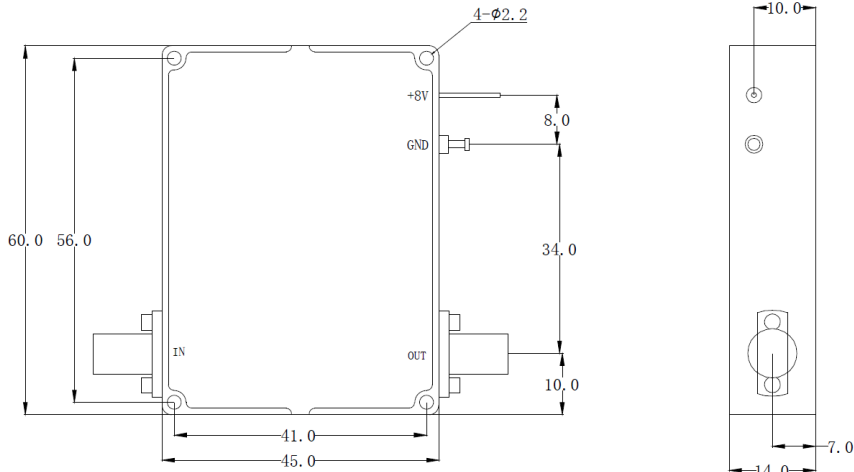
Please pay attention to the case temperature. If case temperature exceed higher than +50C, heat sink and fan are required, or the amplifier may be damaged.

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.

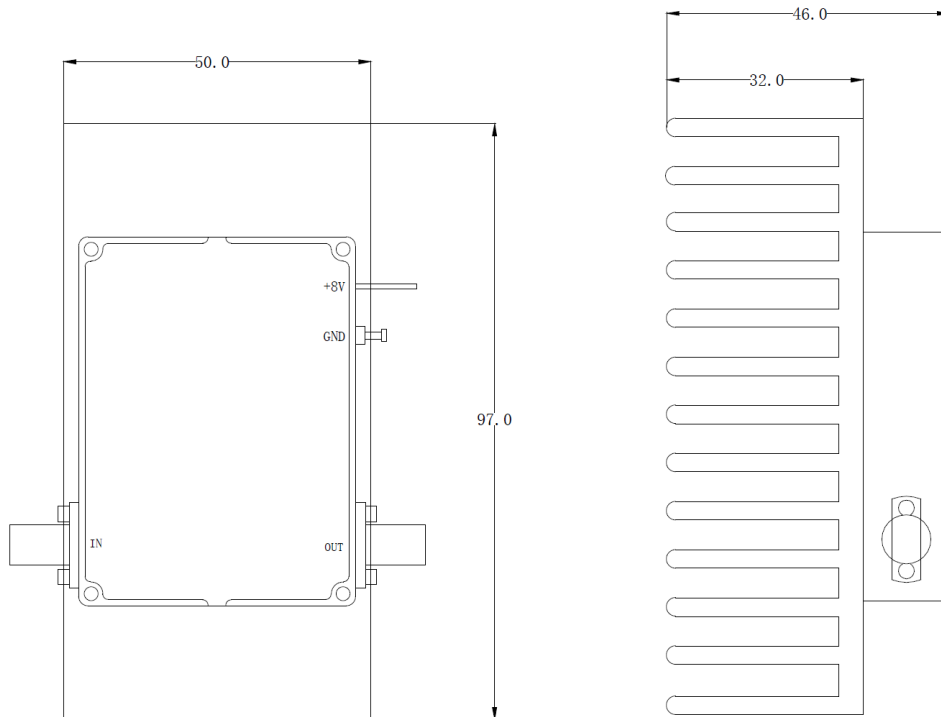


Dimension: (unit in mm)



	<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.



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 if case Temp higher than 50C

