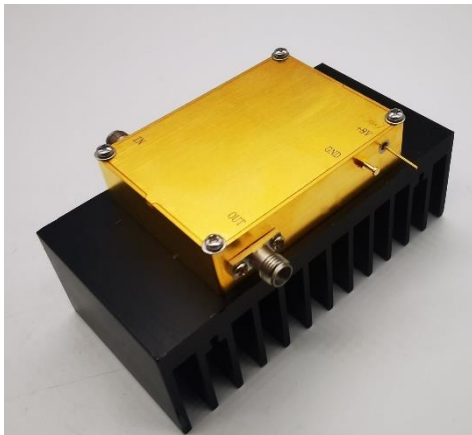


2-18GHz Broadband Amplifier

Gain=35dB, Pout=+27dBm, NF=2.3dB



Product Overview

AT-PA-0218-3527XC is broadband amplifier from 2-18GHz, with Pout=+27dBm, NF=2.3dB. It can be used both as Power amplifier and low noise amplifier. The DC power requirement is +10V/650mA. The module is with SMA Female

The broadband amplifier has high gain, high linearity, low input/output return loss and flat gain response. Bench-top test equipment type with 110-240V power supply is available according to request.

More information, please visit www.atmicrowave.com

Advantages

- ✓ Frequency: 2-18GHz
- ✓ Psat:+27dBm
- ✓ Small signal gain: 35dB
- ✓ NF=2.3dB

Application

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

Key Features

Parameter	Min	Typical	Max
Frequency		2-18GHz	
Gain	33dB	35dB	
P1dB	+24dBm	+26dBm	
Psat	+25dBm	+27dBm	
Drain Supply		+10V	+12V
Idd NO RF		0.45A	
IDD at Psat		0.55A	0.7A
NF		2.3dB	3dB
Input Return Loss		-10dB	
Output Return Loss		-10dB	
Spec Temp		25C	





AT-PA-0218-3527XC

2-18GHz Broadband Amplifier

Mechanical Information

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

Absolute Maximum Ratings Table

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

Caution:

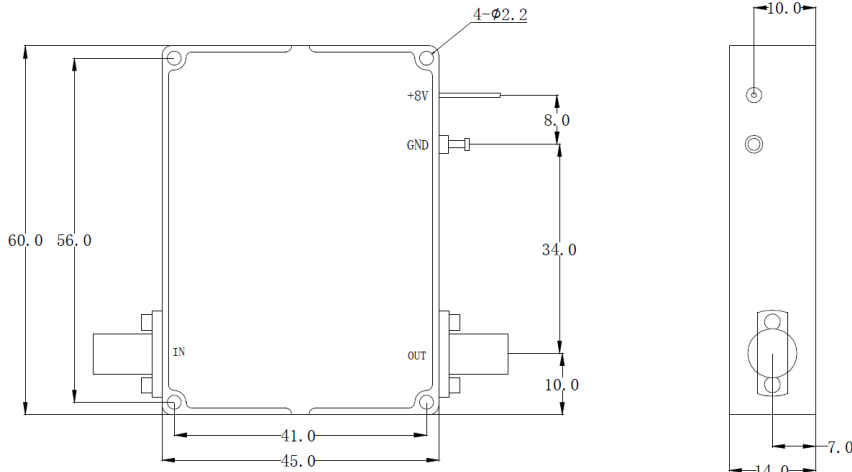
Please pay attention to the case temperature. If case temperature exceeds higher than +50C, heat sink and fan are required, or the amplifier may be damaged.

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.

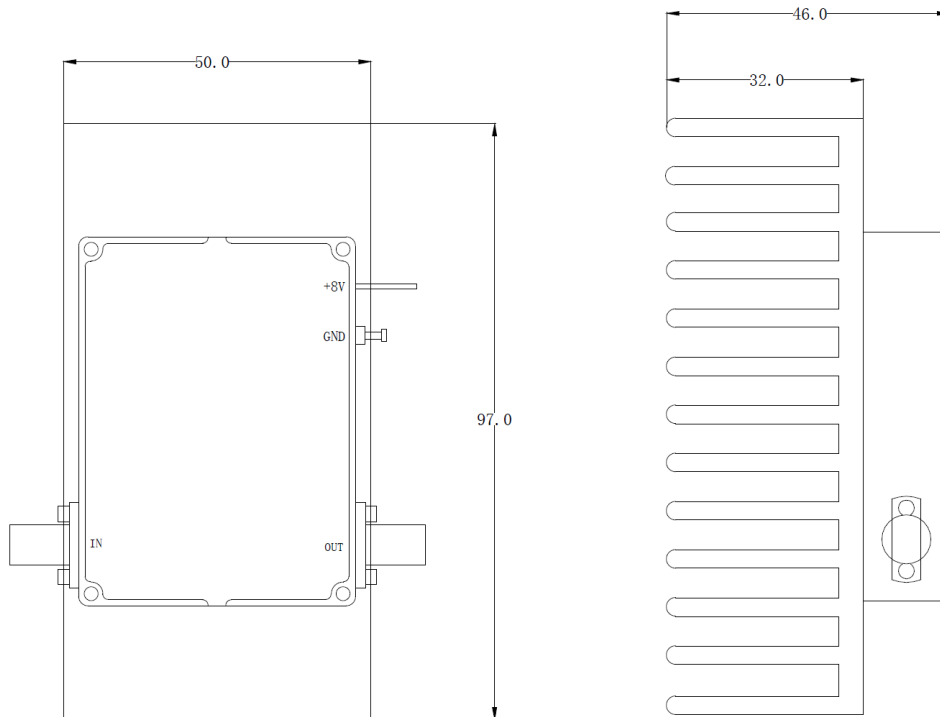


Dimension: (unit in mm)



	<26.5GHz	<40GHz	<50GHz	<67GHz
Connector	SMA	2.92mm	2.4mm	1.85mm
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 During Operation if case Temp higher than 50C

