

2-18GHz, Low NF Broadband Amplifier

Gain=23dB, Pout=+27dBm , NF=2.3dB



Product Overview

AT-PA-0218-2327XC 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/550mA. 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: 23dB
- ✓ NF=2.3dB

Application

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

Key Features

Parameter	Min	Typical	Max
Frequency		2-18GHz	
Gain	20dB	23dB	
P1dB	+24dBm	+26dBm	
Psat	+25dBm	+27dBm	
Drain Supply		+10V	+12V
Idd NO RF		0.4A	
IDD at Psat		0.51A	0.65A
NF		2.3dB	3dB
Input Return Loss		-10dB	
Output Return Loss		-10dB	
Spec Temp		25C	





AT-PA-0228-2327XC

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:	59x30x9.5 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:

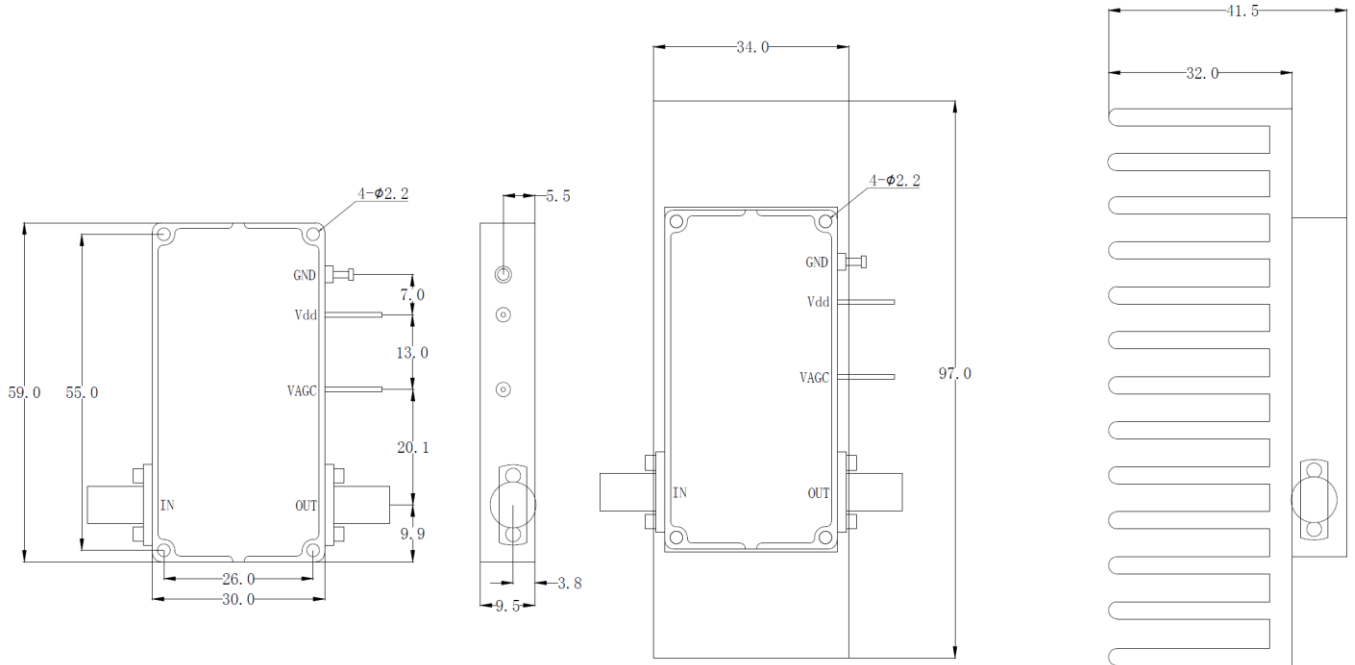
Please pay attention to the case temperature. If case temperature exceeds higher than +50C, heat sink and fan are required, or the amplifier may be damaged.

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)



Heat Sink Required During Operation

