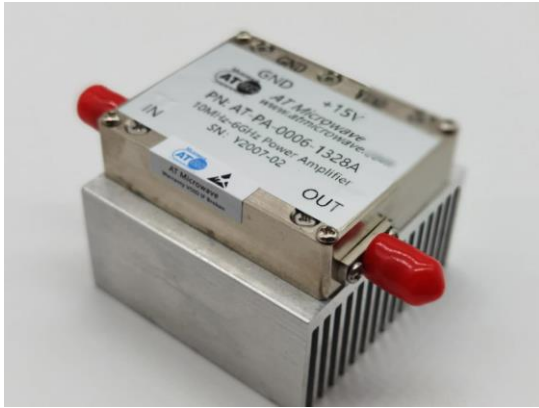


10MHz-20GHz Broadband Amplifier



Product Overview

AT-PA-0020-2427A is broadband amplifier from 10MHz-20GHz, with $P_{out}=+27\text{dBm}$, $NF=6\text{dB}$. It can be used both as Power amplifier and low noise amplifier. The DC power requirement is +12V/400mA. The module is with SMA Female

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

More information, please visit www.atmicrowave.com

Advantages

- ✓ Frequency: 10MHz-20GHz
- ✓ P_{sat} : +27dBm
- ✓ Small signal gain: 24dB
- ✓ Single Power Supply

Application

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

Key Features

Parameter	Min	Typical	Max
Frequency		10MHz-20GHz	
Gain	22	24dB	
P1dB		+26dBm	
P_{sat}		+27dBm	
Drain Supply		+12V	+15
Current		450 mA	550
NF		6dB	
Input VSWR		1.5	2.2
Output VSWR		2.0	2.8
Dimension		50x40x12 mm	
Connector		SMA Female	



Absolute Maximum Ratings Table

Parameter	Value
Drain Supply	+15V
RF Input Power	+10 dBm
Operating Temperature	0 to +50C
Storage Temperature	-65 to +150C

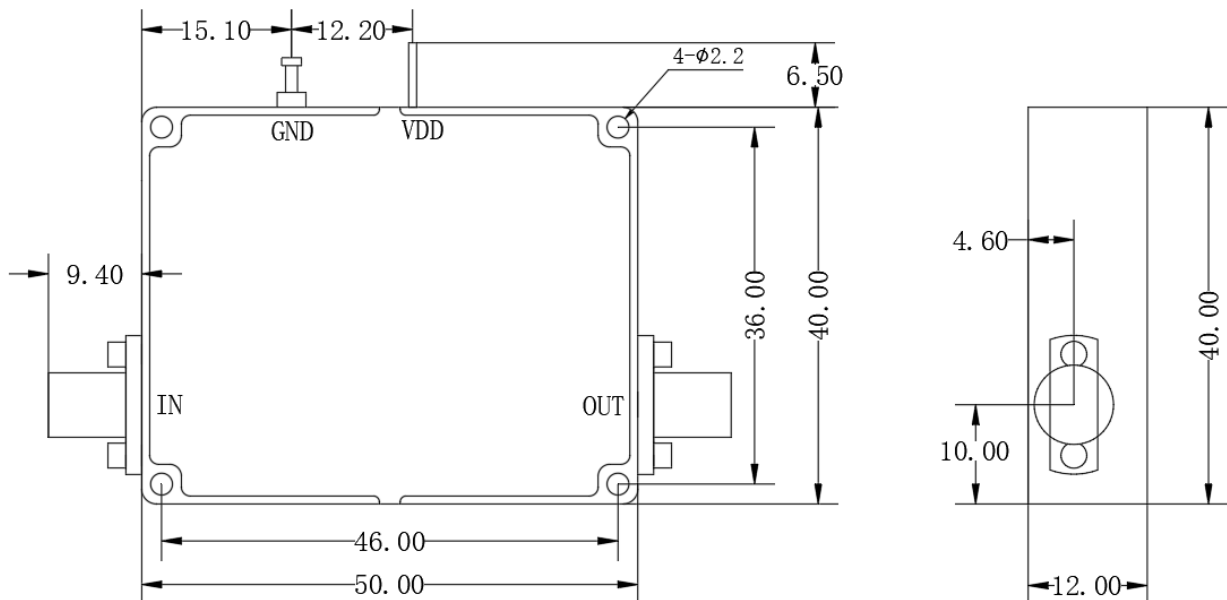
Caution:

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)



In millimetres

The 9.4 size marked is used SMA female connector
if use 2.92mm female connector the size is 9.5

Heat Sink Required When Case Temp Higher than 50C

