

## 22-27GHz High Power Amplifier

Gain=40dB, Pout=+34dBm



### Product Overview

AT-HPA-2227-4034N is GaAs Based high gain power amplifier with +34dBm output power in the frequency of 22-27GHz. The DC power requirement is +8V/2.9A at Psat. 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](http://www.atmicrowave.com)

### Advantages

- ✓ Frequency: 22-27GHz
- ✓ Psat:+34dBm
- ✓ Small signal gain: 40dB
- ✓ Single Power Supply

### Application

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

## Key Features

Parameter	Min	Typical	Max
Frequency		22-27GHz	
Gain	35dB	40dB	
P1dB		+32dBm	
Psat		+34dBm	
Drain Supply		+8V	+9V
Idd NO RF		2.5A	
IDD Psat		2.9A	3.3A
Input Return Loss		-10dB	
Output Return Loss		-5dB	
Heatsink Fan Bias		+12V/0.2A	
Spec Temp		22C	



## Mechanical Information

Item	Description
Input Port	2.92mm Female
Output Port	2.92mm Female
Case Material	Copper
Finish	Gold Plated
Weight (With Heatsink and Fan)	400g
Size:	56x56x12mm

## Absolute Maximum Ratings Table

Parameter	Value
Drain Supply	+12V
RF Input Power	+20 dBm
Operating Temperature	-20 to +55C
Storage Temperature	-65 to +150C

### Very Important:

1. MUST Apply to heatsink and Fan during operation, or the amplifier will be damaged due to the high power consumption;
2. Do NOT leave Output OPEN with Bias and input power. Connect to 50 Ohms system during operation.
3. Take care that Vdd never touch Case/GND when Power ON, or the amplifier will be damaged.



### Notes:

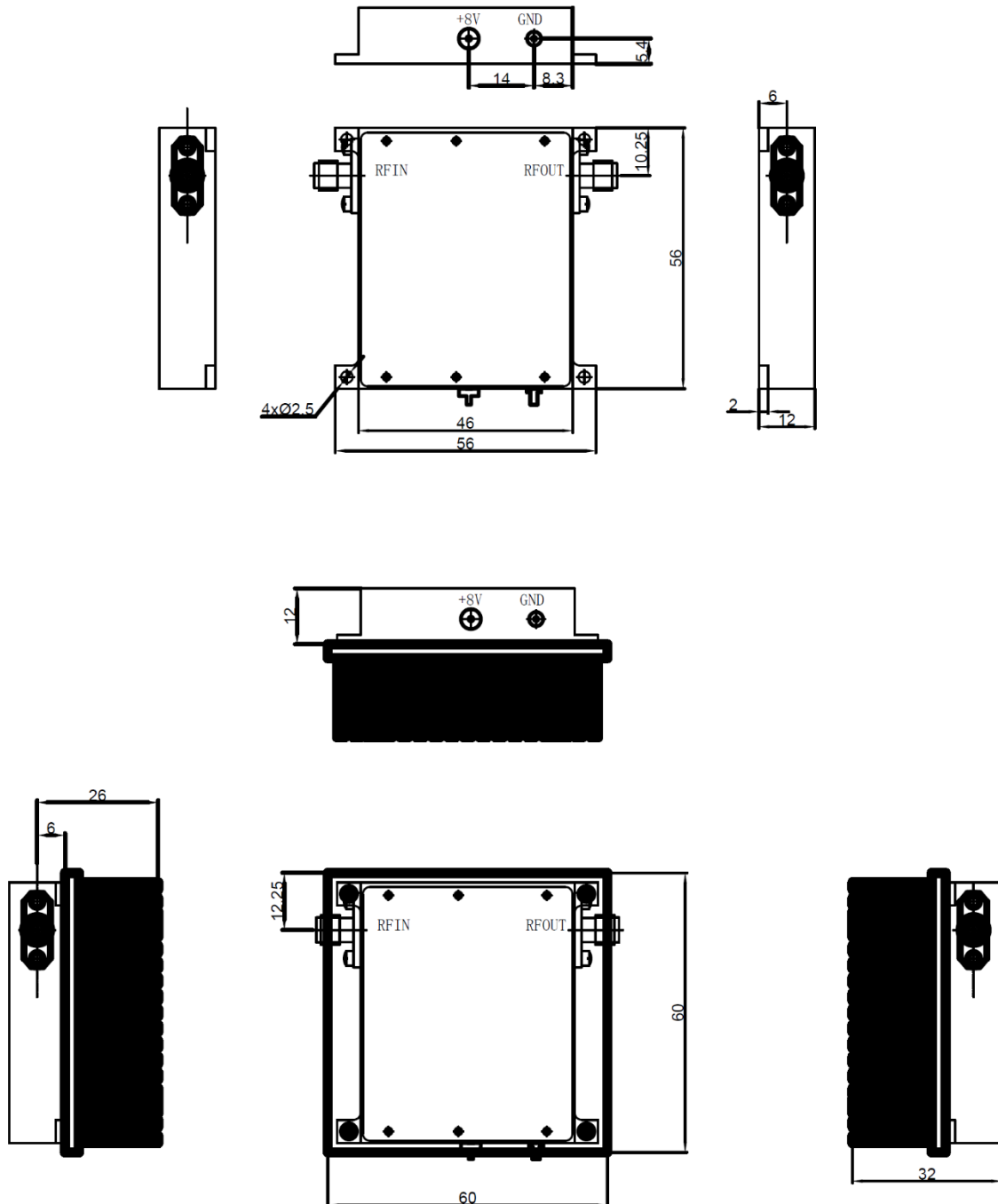
1. Datasheet may be changed according to update of MMIC, Raw materials , process, and so on.
2. This data is only for reference, not for guaranteed specifications.
3. Please contact AT Microwave team to make sure you have the most current data.



## Test Data (25C)

Please note that test curves will vary slightly from unit to unit.

## Dimension: (mm)



Heat Sink Required during Operation

