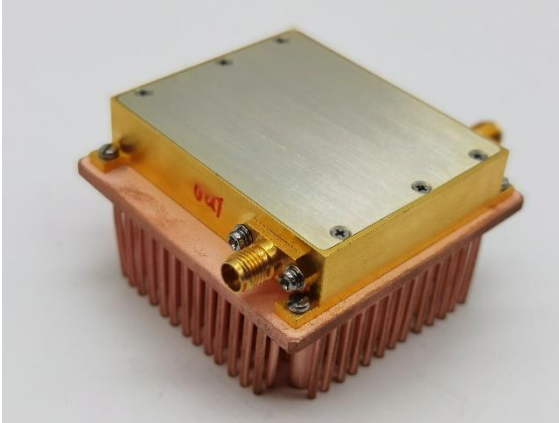


## 6-18GHz GaAs High Power Amplifier



### Product Overview

AT-HPA-0618-3535N is GaAs Based high gain power amplifier with +35dBm output power in the frequency of 6-18GHz. The DC power requirement is +10V/2.9A at Psat. The module is with SMA 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: 6-18GHz
- ✓ Psat:+35dBm
- ✓ Small signal gain: 32dB
- ✓ Single Power Supply

### Application

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

### Key Features

Parameter	Min	Typical	Max
Frequency		6-18GHz	
Gain	30	32dB	
P1dB		+33dBm	
Psat		+35dBm	
Drain Supply	+9V	+10V	+12V
IDD PSAT		2.9A	3.5A
Input Return Loss		-10dB	
Output Return Loss		-5dB	
Heatsink Fan Bias		+12V/0.2A	
Spec Temp		25C	





# AT-HPA-0618-3535N

6-18GHz High Power Amplifier

## Mechanical Information

Item	Description
Input Port	SMA Female
Output Port	SMA Female
Case Material	Copper
Finish	Gold Plated
Weight (With Heatsink and Fan)	400g
Size:	65x20x14mm

## Absolute Maximum Ratings Table

Parameter	Value
Drain Supply	+15V
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.

### 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.

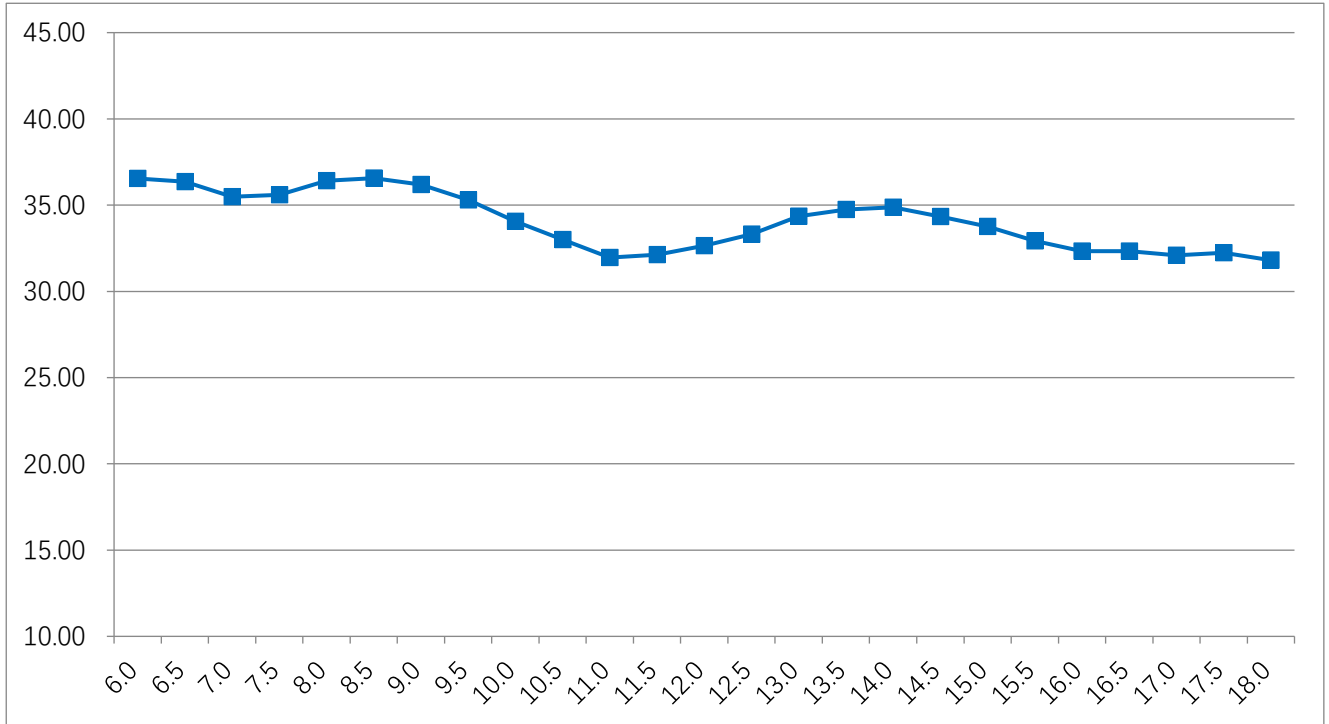




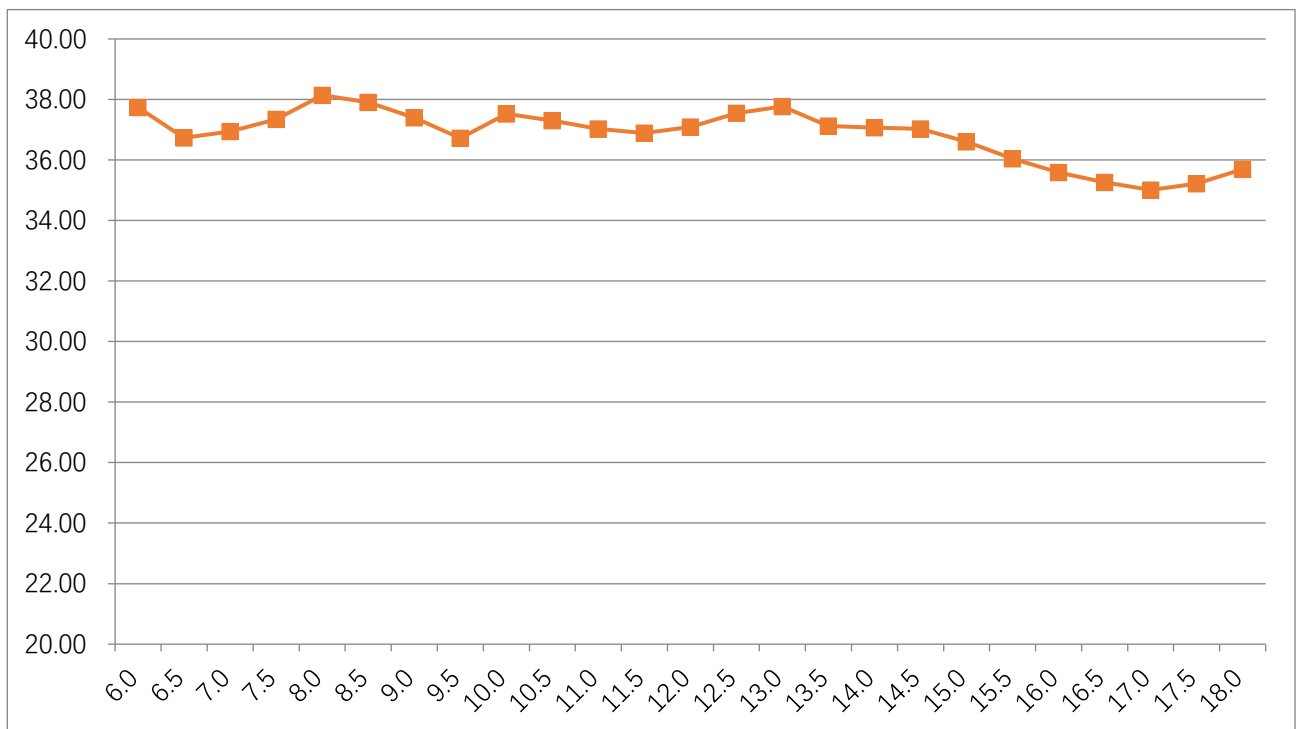
# AT-HPA-0618-3535N

6-18GHz High Power Amplifier

## Test Data

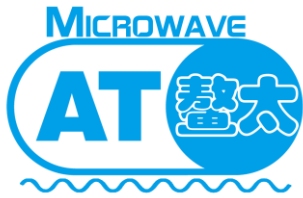


Gain vs Frequency



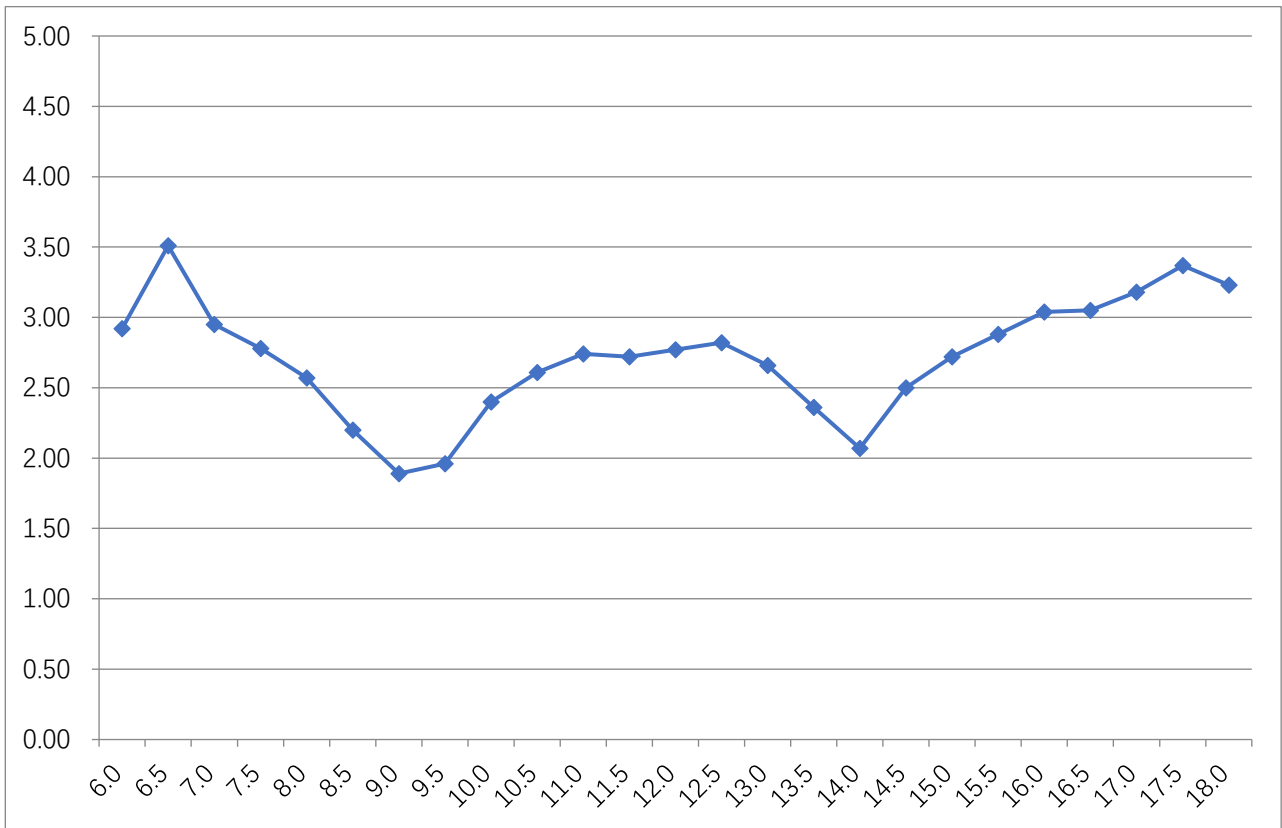
Pout vs Frequency





# AT-HPA-0618-3535N

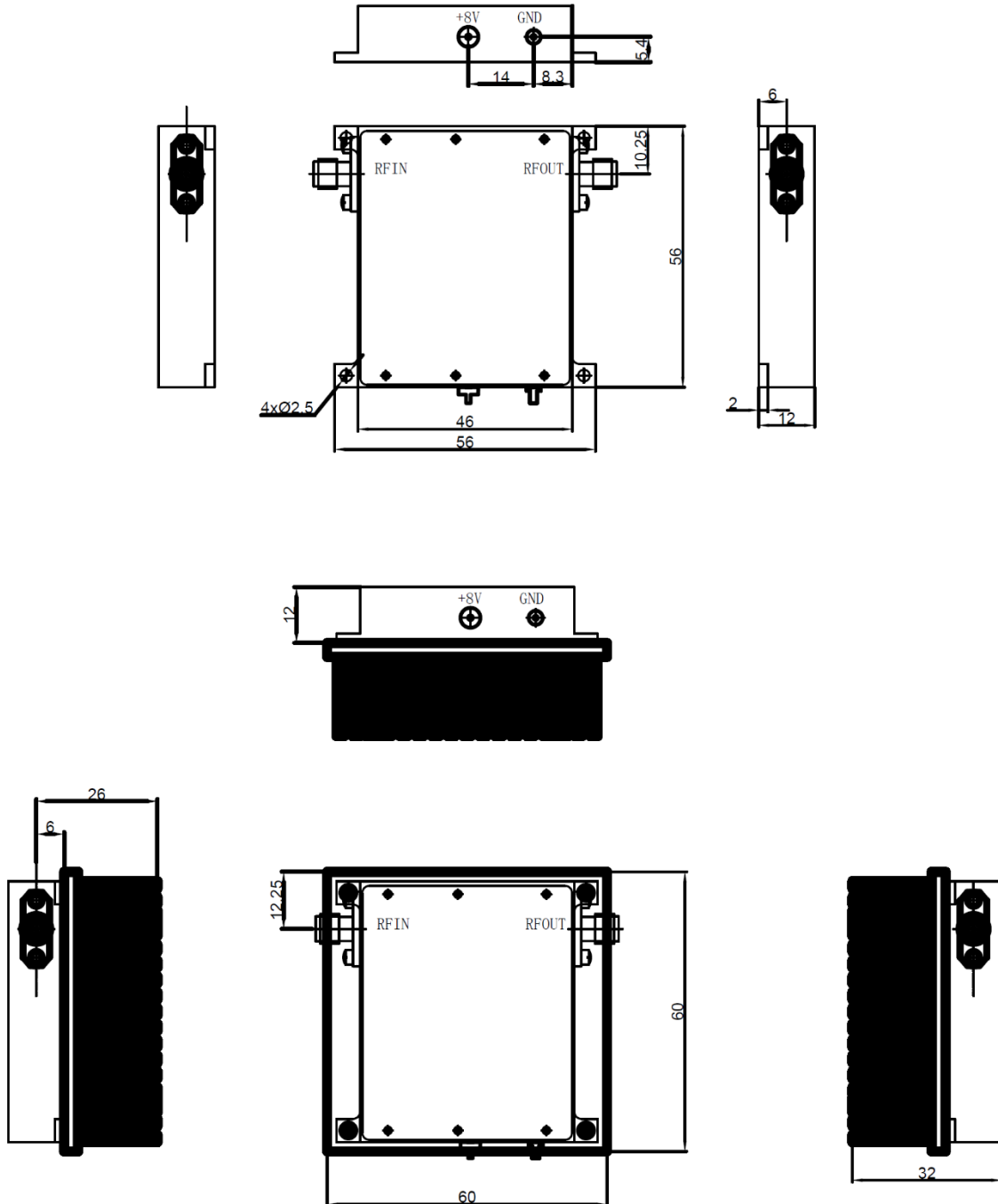
6-18GHz High Power Amplifier



IDD at Psat vs Frequency



**Dimension:** (mm)



Heat Sink Required during Operation

