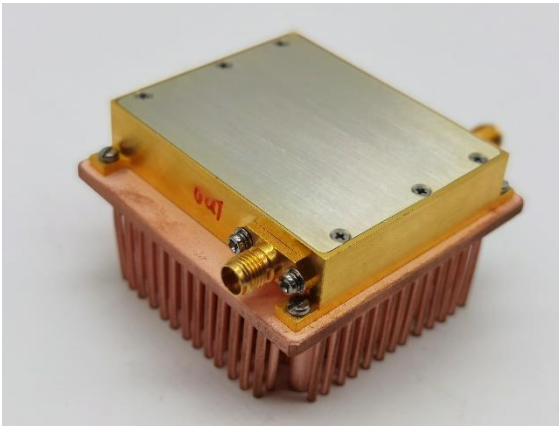


2-6GHz GaAs High Power Amplifier



Product Overview

AT-HPA-0206-4036N is GaAs Based high gain power amplifier with +36dBm output power in the frequency of 2-6GHz. The DC power requirement is +12V/2.8A 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

Advantages

- ✓ Frequency: 2-6GHz
- ✓ Psat:+36dBm
- ✓ 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		2-6GHz	
Gain		40dB	
P1dB		+34dBm	
Psat		+36dBm	
Drain Supply	+11V	+12V	+13V
IDD PSAT		2.8A	
Input Return Loss		-10dB	
Output Return Loss		-5dB	
Heatsink Fan Bias		+12V/0.2A	
Spec Temp		25C	



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:	65x28x14mm

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.
3. Take care that Vdd never touch Case/GND when Power ON, or the amplifier will be damaged.



Notes:

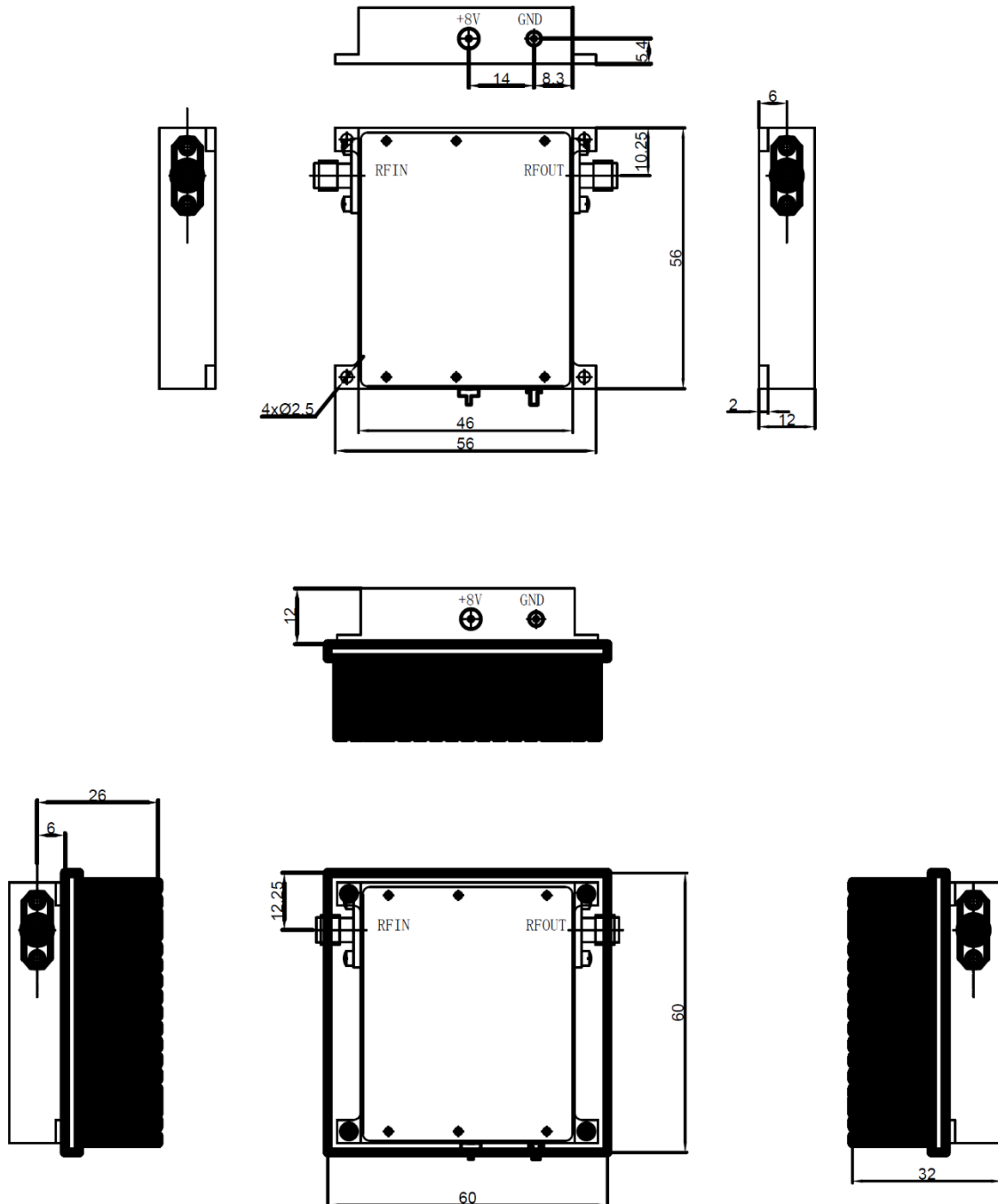
1. Datasheet may be changed according to update of MMIC, Raw materials , process, and so on.
2. This data is only for reference, not for guaranteed specifications.
3. Please contact AT Microwave team to make sure you have the most current data.



Test Data (25C)

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

Dimension: (mm)



Heat Sink Required during Operation

