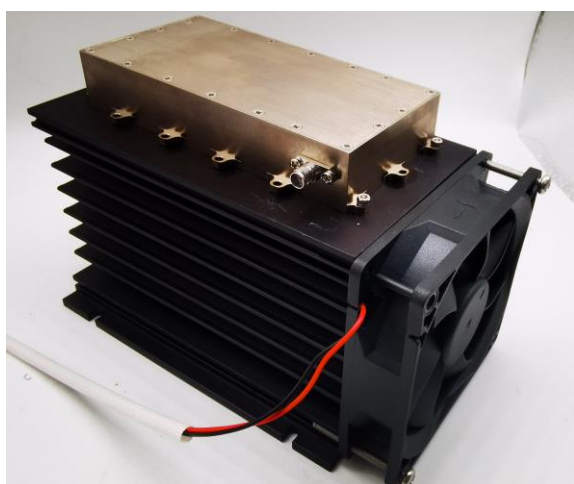


18-26.5GHz High Power Amplifier

Gain=45dB, Pout=+39dBm



-HF Option with heatsink and Fan

Product Overview

AT-HPA-1826-4539GN is GaN Based high gain power amplifier with +39dBm output power in the frequency of 18-26.5GHz. The DC power requirement is +22V/3.3A 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. There is no heatsink and fan in default. Option with suffix “-HF” is part number with heatsink and Fan, -BT option is for bench-top system amplifier.

More information, please visit www.atmicrowave.com

Advantages

- ✓ Frequency: 18-26GHz
- ✓ Psat:+39dBm
- ✓ Small signal gain: 45dB
- ✓ Single Power Supply

Application

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

Key Features

Parameter	Min	Typical	Max
Frequency		18-26.5GHz	
Gain	42dB	45dB	
P1dB		TBD	
Psat	+38dBm	+39dBm	
Drain Supply		+22V	+24V
Idd NO RF		2A	
IDD Psat		3.3A	3.7A
Input Return Loss		-10dB	
Spec Temp		25C	





AT-HPA-1826-4539GN

18-26.5GHz High Power Amplifier

Mechanical Information

Item	Description
Input Port	2.92mm Female
Output Port	2.92mm Female
Case Material	Aluminum
Finish	Nickel Plated
Weight (With Heatsink and Fan)	TBD
Size:	See outline

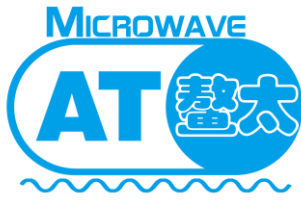
Absolute Maximum Ratings Table

Parameter	Value
Drain Supply	+28V
RF Input Power	+16 dBm
Operating Temperature	-20 to +70C
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.



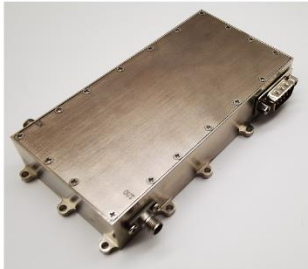


AT-HPA-1826-4539GN

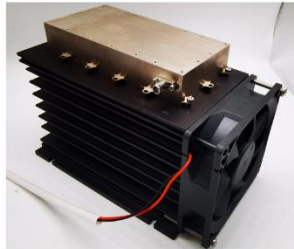
18-26.5GHz High Power Amplifier

Part Number Selection

Item	Description
AT-HPA-1826-4539GN	In defaulted without heatsink and Fan. Heatsink and Fan required during operation.
AT-HPA-1826-4539GN- HF	Including Heatsink and Fan. Fan bias is same with Vdd normally.
AT- BT HPA-1826-4539GN	Bench-top System Amplifier, 90-220V AC Power Supply Please note gain will be 1-2db lower than standard module, while Pout will keep the same. Please contact with us for more information.



In default
without heatsink



-HF Option
With Heatsink and Fan



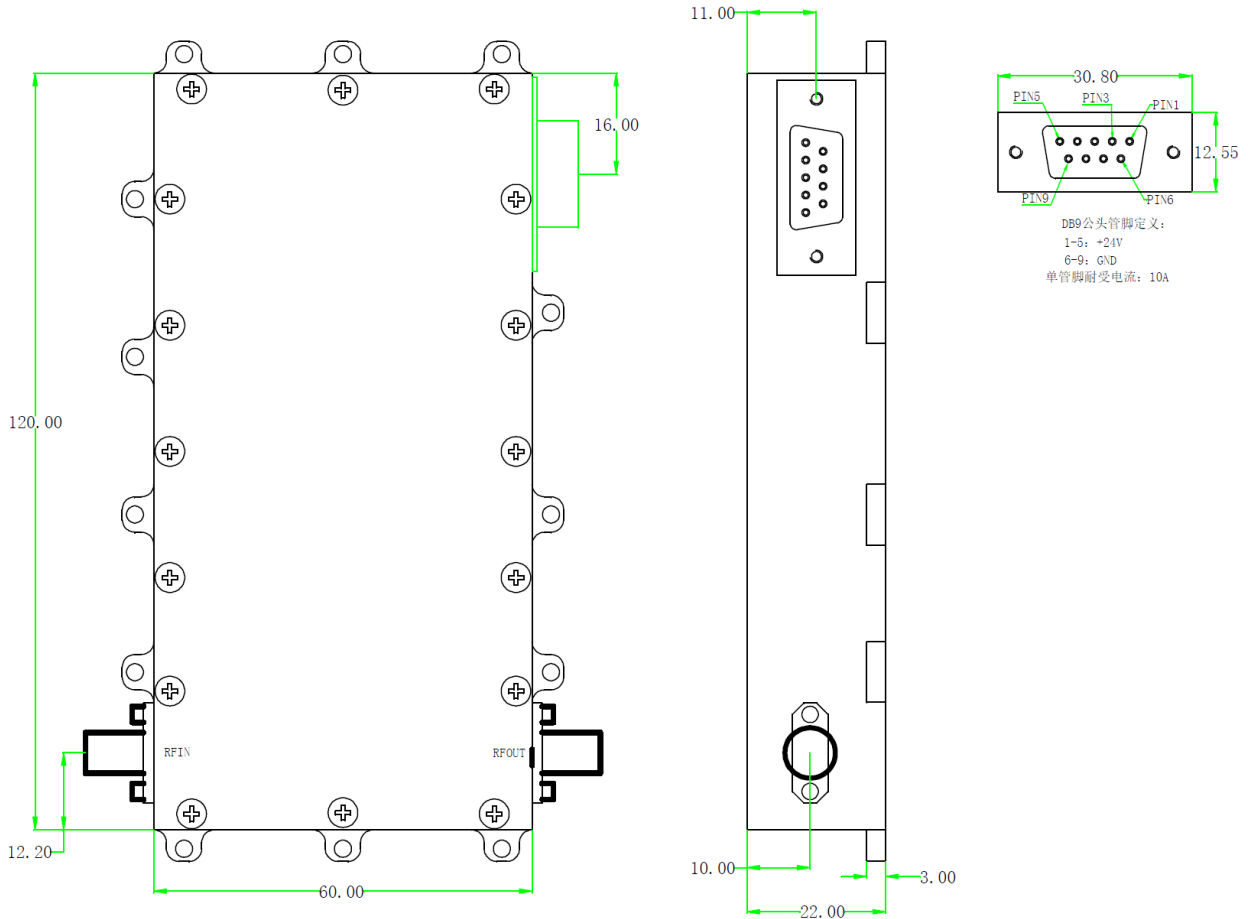
-BT Option
Bench-top System Amplifier

Test Data (25C)

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



Standard Module Outline Without Heatsink: (mm)



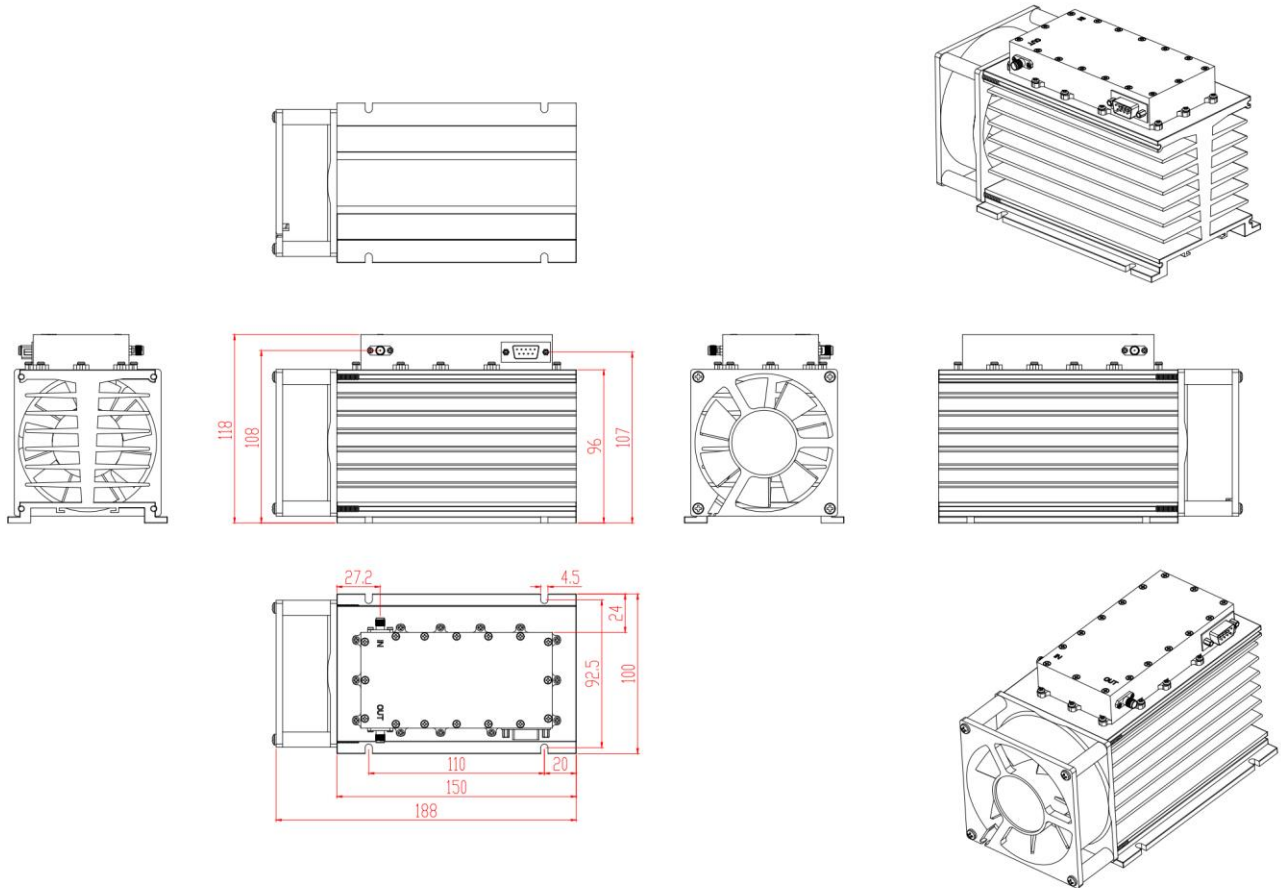
PA Module without heatsink and Fan

Heatsink and Fan Required during Operation



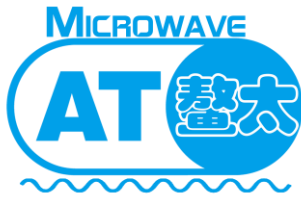
-HF Option:

Module With Heatsink and Fan: (mm)



Customers can remove the heatsink and Fan if using their own heatsink.





AT-HPA-1826-4539GN

18-26.5GHz High Power Amplifier

-BT Option,

Bench-top outline System Amplifier: (mm)

