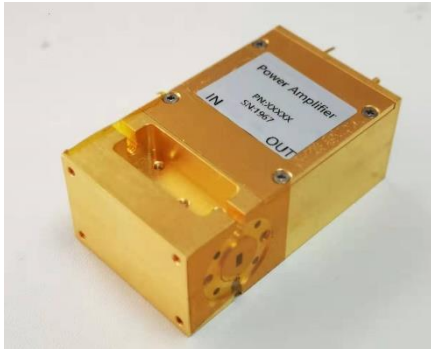


## E1 Band Power Amplifier

### Product Overview



AT-PA-7181-1626 is power amplifier with +26dBm output power in the frequency of 71-81GHz. The DC power requirement is +6/1400mA. The module is with a standard WR-12 waveguide.

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

It can also be used from 68-89Hz with some variation of performance.

More information, please visit [www.atmicrowave.com](http://www.atmicrowave.com)

### Advantages

- ✓ Frequency: 71-81GHz
- ✓ Psat:+26dBm
- ✓ Small signal gain: 16dB
- ✓ Single Power Supply

### Application

- ✓ E Band Point to Point Communication
- ✓ FOD (Foreigner Objects Debris)
- ✓ Test Equipment
- ✓ ROF (RF Over Fiber)
- ✓ Radar System

### Key Features

Parameter	Min	Typical	Max
Frequency		71-81GHz	
Gain		16dB	
Drain Supply		+6V	+7V
Current/A		1.4	
P1dB		+25dBm	
Psat	+25	+26dBm	
Input Return Loss		-7 dB	
Output Return Loss		-7 dB	
Spec Temp		25C	





# AT-PA-7181-1626

71-81GHz Power Amplifier, Psat=+26dBm

## Mechanical Information

Item	Description
Input Port	WR-12
Output Port	WR-12
Case Material	Copper
Finish	Gold Plated
Weight (Without Heatsink)	221g
Size:	57.5x33x22.4mm

## Absolute Maximum Ratings Table

Parameter	Value
Drain Supply	+8V
RF Input Power	+18dBm
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.

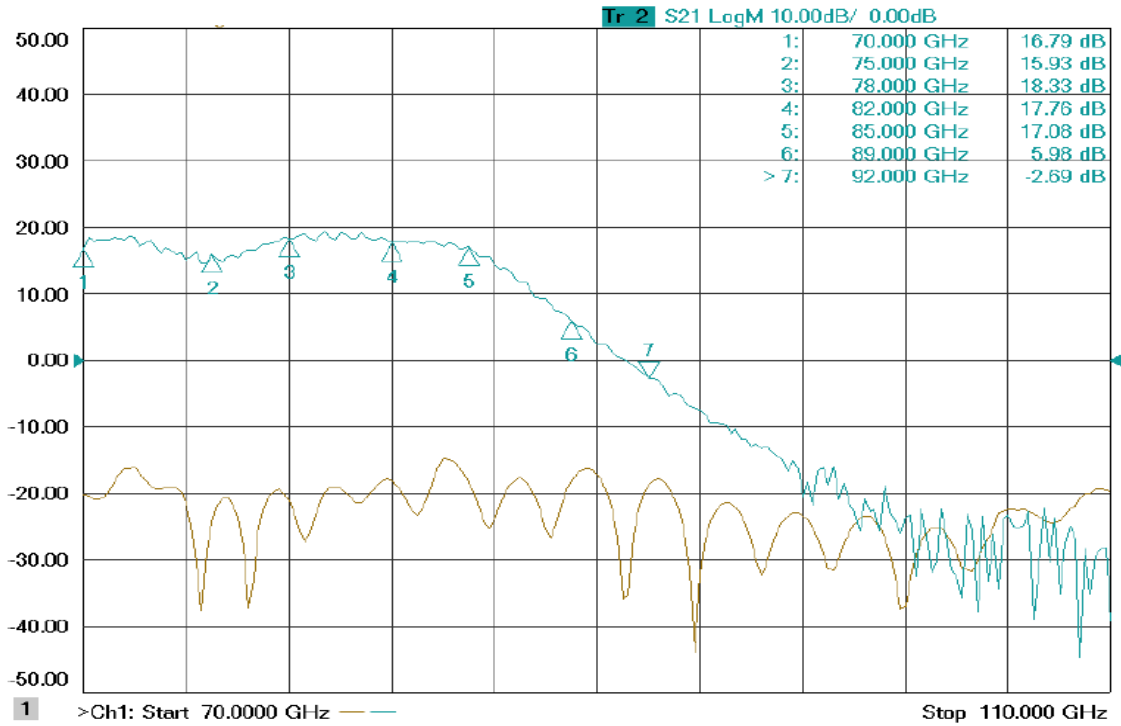




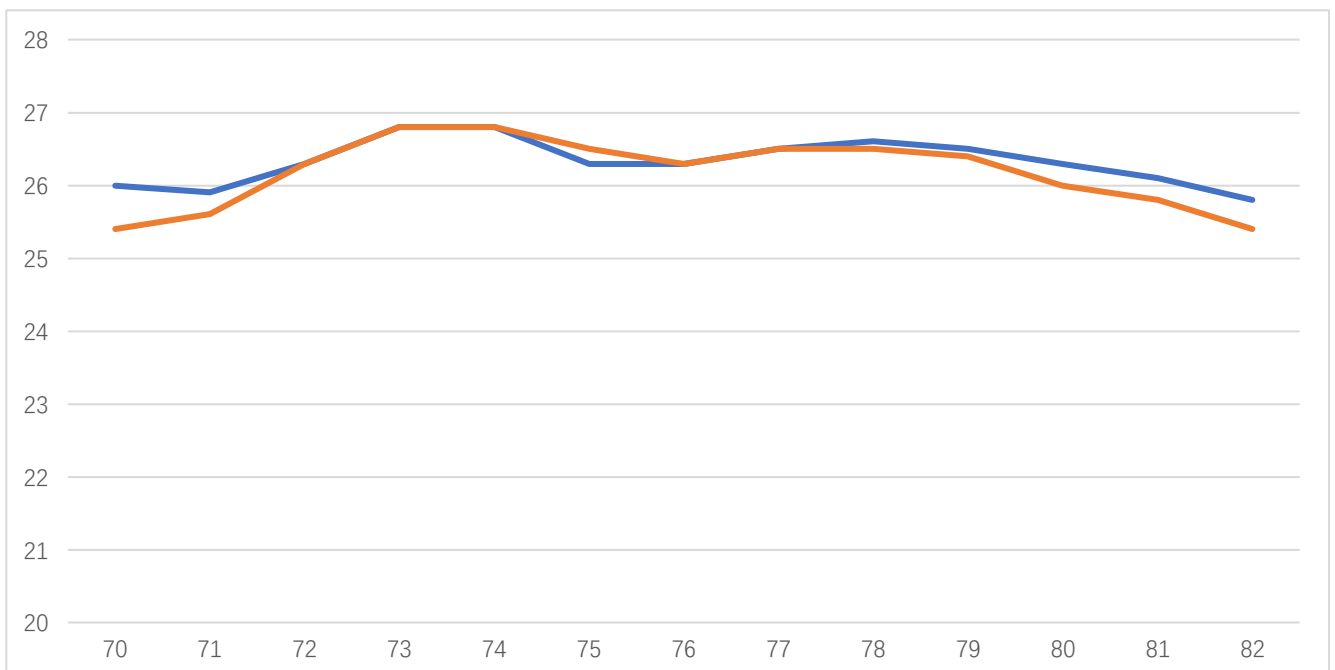
# AT-PA-7181-1626

71-81GHz Power Amplifier, Psat=+26dBm

## Test data



## Gain Vs Frequency



## Pout Vs Frequency

Shanghai AT Microwave Limited

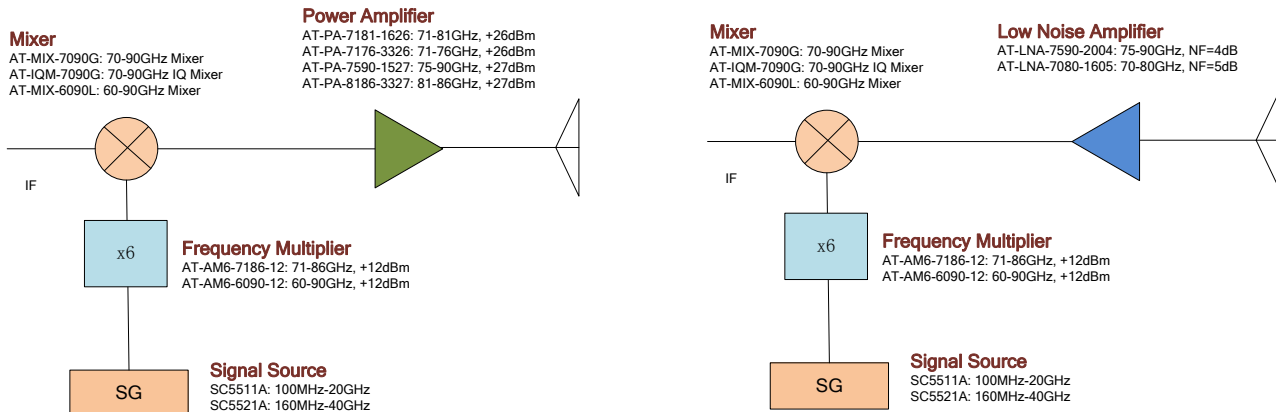
Tel:021-6229 1233

Email:sales@atmicrowave.com

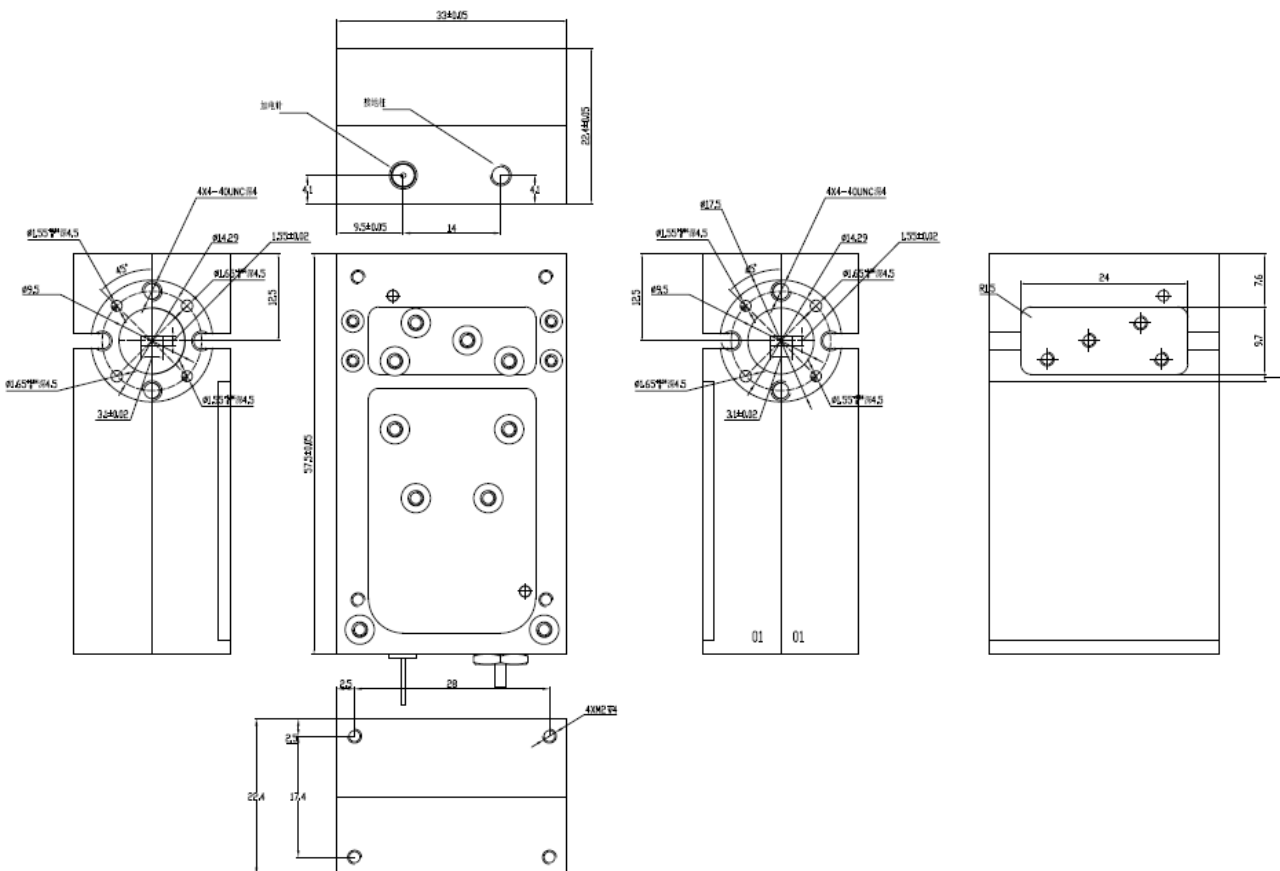
www.atmicrowave.com



### E Band Solution:

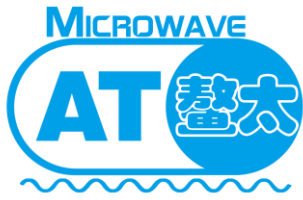


### Dimension: (unit in mm)



**Heatsink Required if Case Temp higher than 50C**





# AT-PA-7181-1626

71-81GHz Power Amplifier,  $P_{sat}=+26\text{dBm}$

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