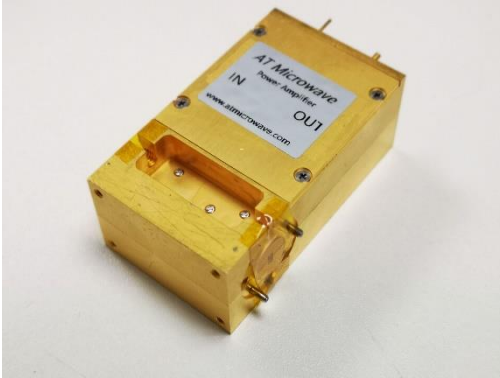


## W Band Power Amplifier



### Product Overview

AT-PA-85100-1226 is power amplifier with +26dBm output power in the frequency of 85-100GHz. The DC power requirement is +6V/1600mA. The module is with a standard WR-10 waveguide.

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: 85-100GHz
- ✓ Psat:+26dBm
- ✓ Small signal gain: 12dB
- ✓ Single Power Supply

### Application

- ✓ W band Imaging
- ✓ FOD (Foreigner Objects Debris)
- ✓ Test Equipment
- ✓ ROF (RF Over Fiber)
- ✓ Radar System

### Key Features

Parameter	Min	Typical	Max
Frequency		85-100GHz	
Gain	10	12dB	
Drain Supply		+6V	+7V
Quiescent Current/A (NO RF)		1.53A	
PSAT Current/A		1.6A	
Psat	+24	+26dBm	
Input Return Loss		-7dB	
Output Return Loss		-7dB	
Temp Spec		25C	

Note: Heatsink and fan are required.





# AT-PA-85100-1226

85-100GHz Power Amplifier,  $P_{sat}=+26\text{dBm}$

## Mechanical Information

Item	Description
Input Port	WR-10
Output Port	WR-10
Case Material	Copper
Finish	Gold Plated
Weight (Without Heatsink)	221g
Size:	57.5x33x22.4mm

## Absolute Maximum Ratings Table

Parameter	Value
Drain Supply	+7V
RF Input Power	+20dBm
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.

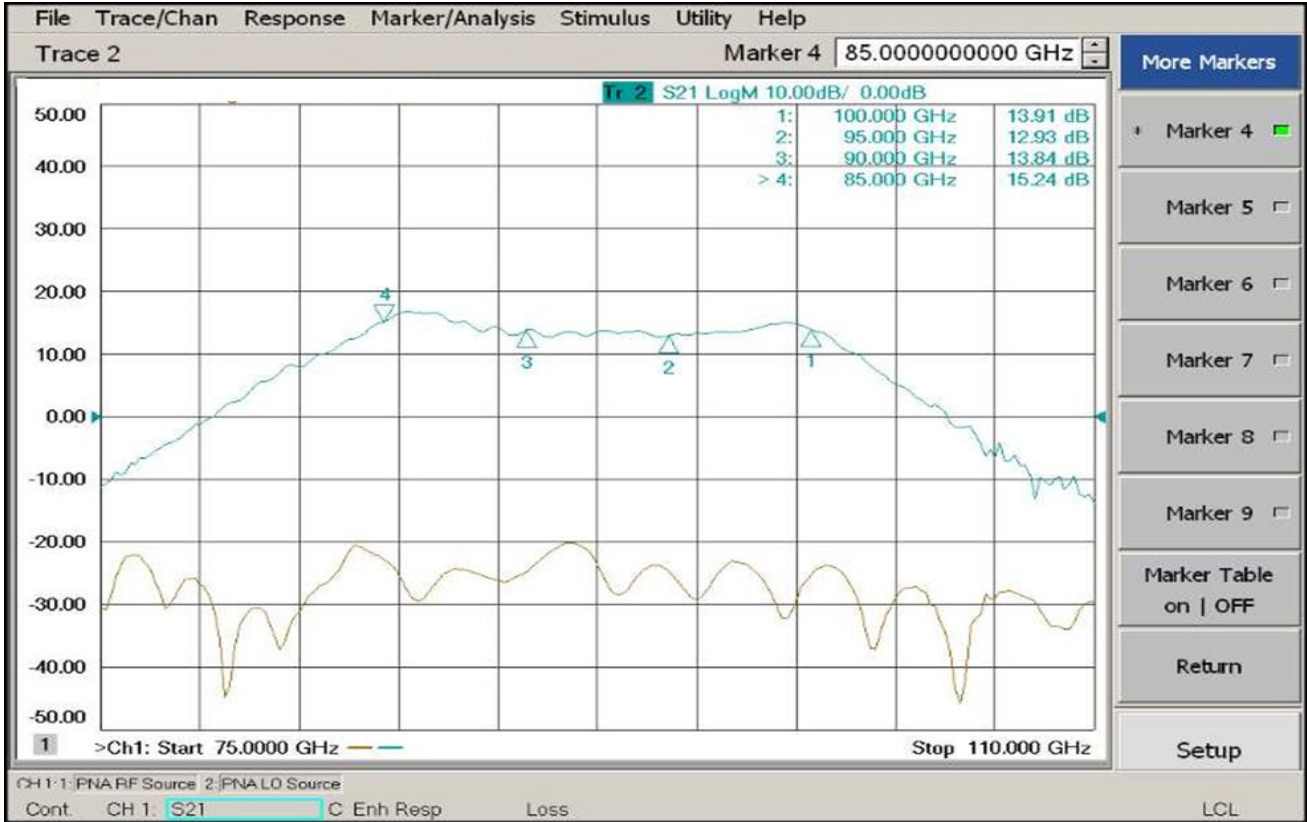




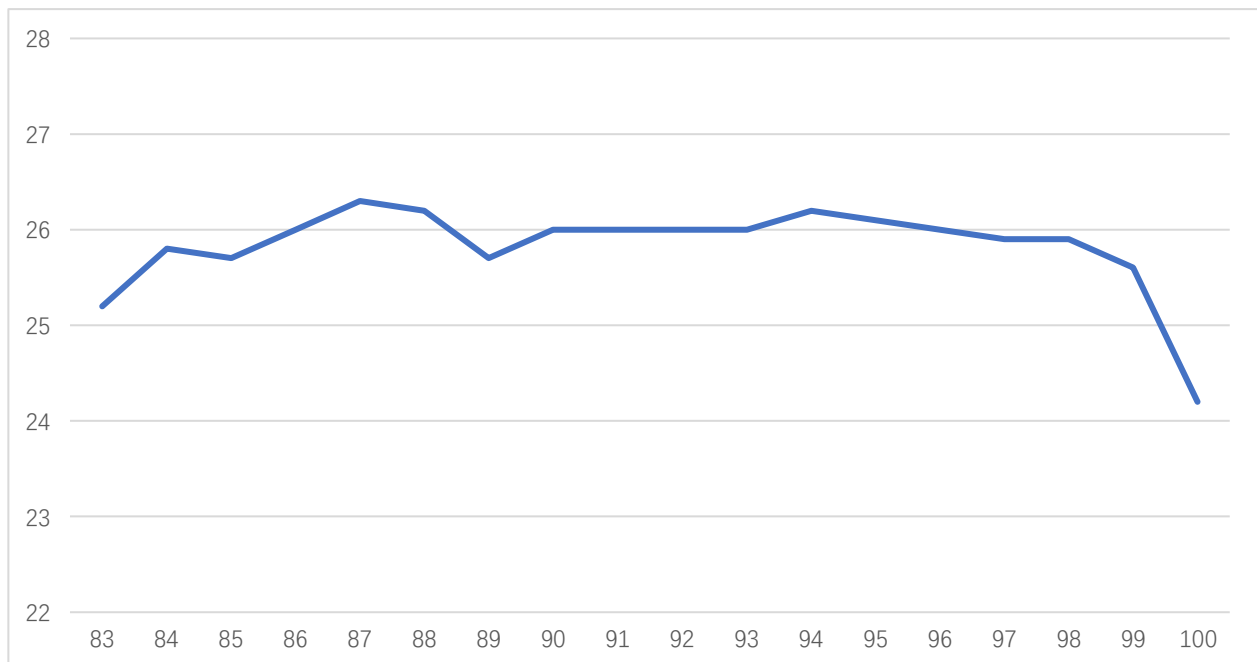
# AT-PA-85100-1226

85-100GHz Power Amplifier,  $P_{sat}=+26\text{dBm}$

## TEST DATA



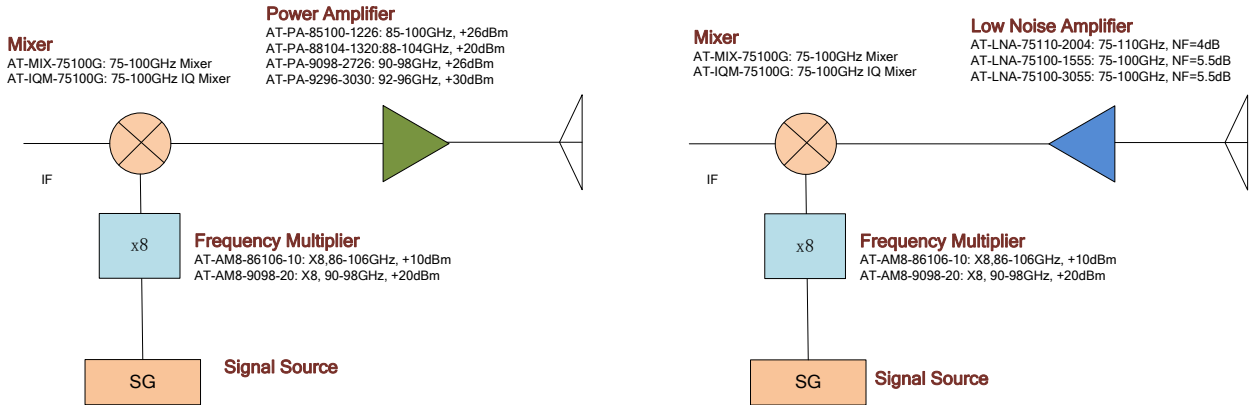
### Small Signal Gain



### $P_{sat}$ vs Frequency at $P_{in}=+18\text{dBm}$



### W Band Solution:



### Dimension:(unit in mm)

