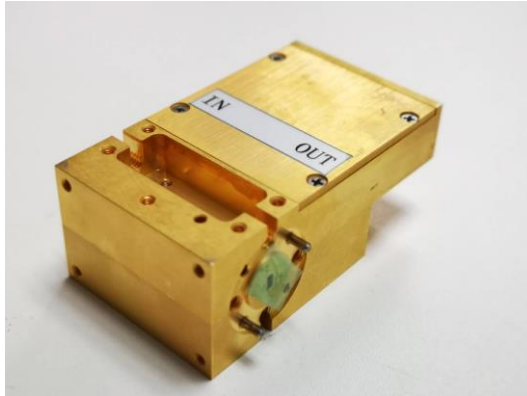


### W Band Power Amplifier



#### 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		1.8A	
Psat	+24	+26dBm	
Input Return Loss		-8dB	
Output Return Loss		-10dB	
Dimension(LxWxH)		57x33x22mm	
Material		Brass	

Note: Heatsink and fan are required.





# AT-PA-85100-1226

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

## Absolute Maximum Ratings Table

Parameter	Value
Drain Supply	+7V
RF Input Power	+20dBm
Operating Temperature	0 to +50C
Storage Temperature	-65 to +150C

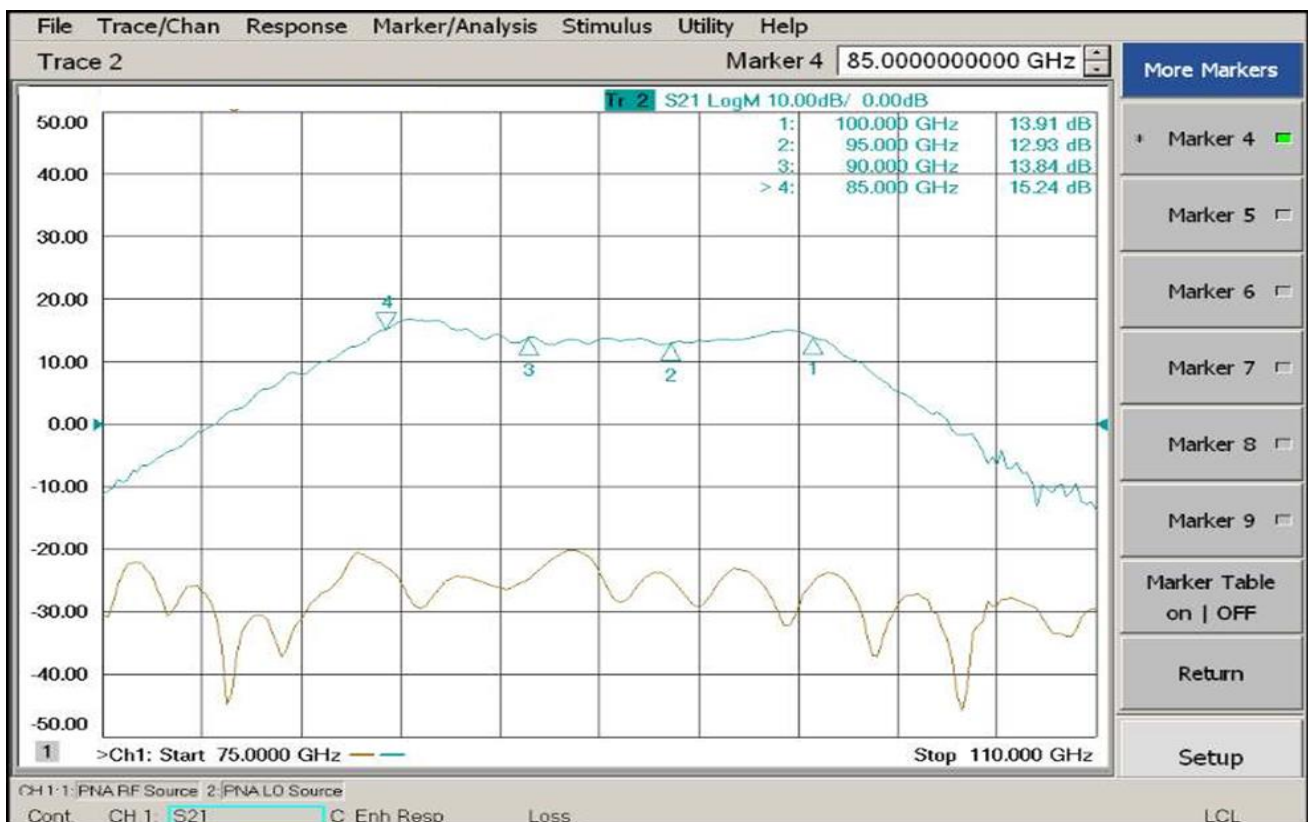
### Caution:

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.

## TEST DATA



### Small Signal Gain

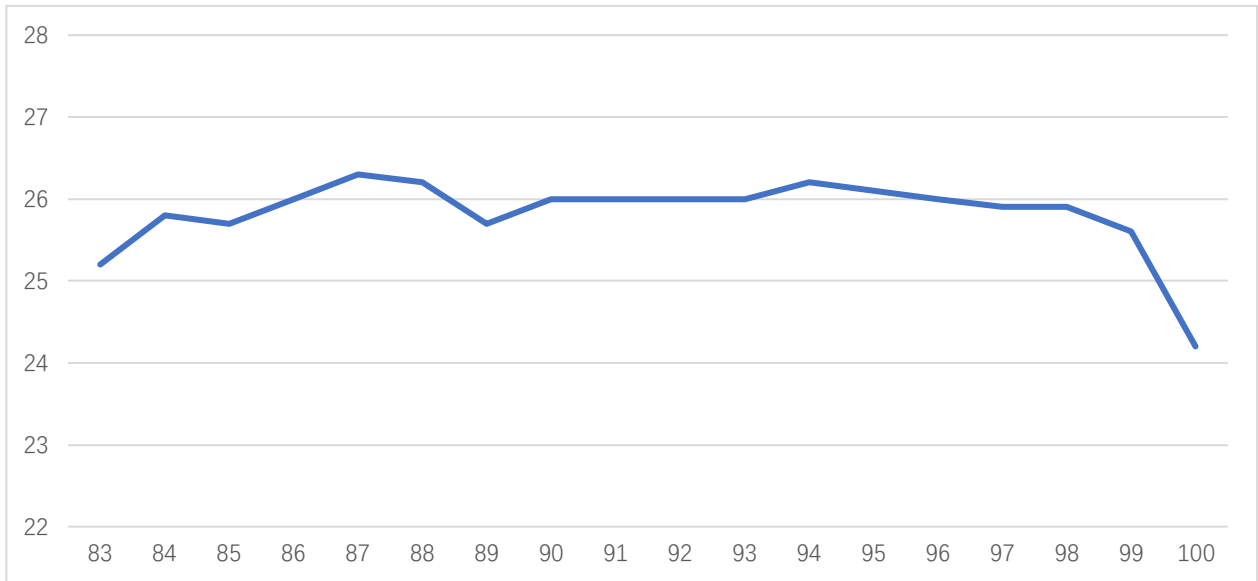
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Psat vs Frequency at Pin=+18dBm

**Dimension:**(unit in mm)

