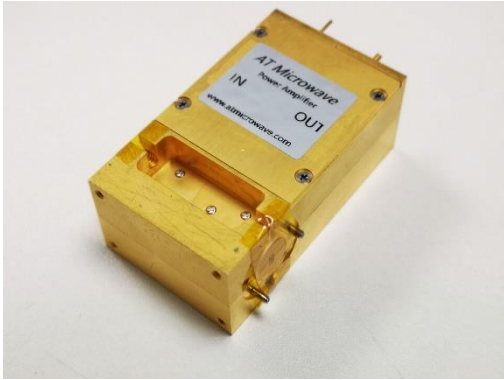


## E2 Band Power Amplifier



### Product Overview

AT-PA-7590-1527 is power amplifier with +27dBm output power in the frequency of 75-90GHz. The DC power requirement is +6/1300mA. 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.

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

### Advantages

- ✓ Frequency: 75-90GHz
- ✓ Psat:+27dBm
- ✓ Small signal gain: 15dB
- ✓ 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(Note1)	75	77-86GHz	90
Gain	13	15dB	
Drain Supply		+6V	+7V
Quiescent/Psat Current/A		1.3/2.1A	
Psat	+25	+27dBm	
Input Return Loss		-7 dB	
Output Return Loss		-7 dB	
Connector		WR-12	
Dimension(LxWxH)		57x33x22mm	
Material		Brass	

Note: Heatsink and fan are required.





# AT-PA-7590-1527

75-90GHz Power Amplifier, Psat=+27dBm

## Absolute Maximum Ratings Table

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

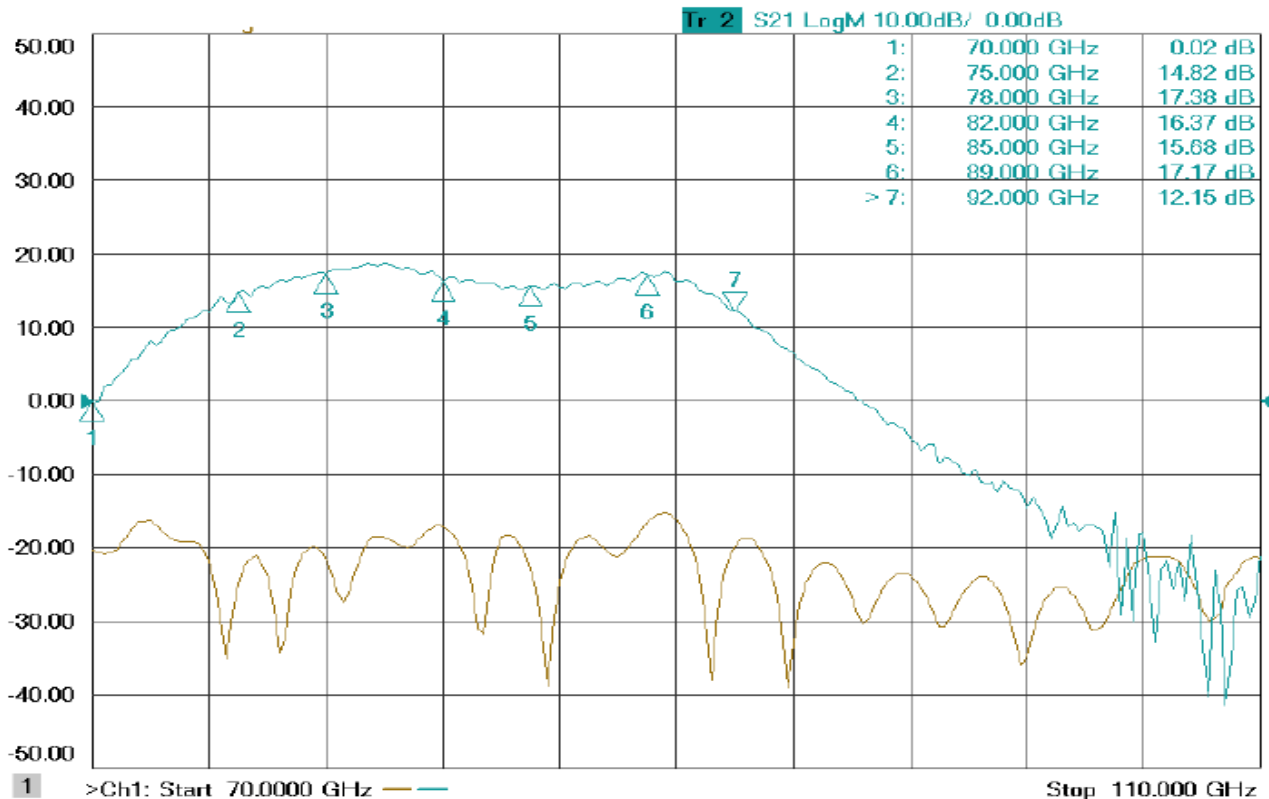
### Caution:

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:

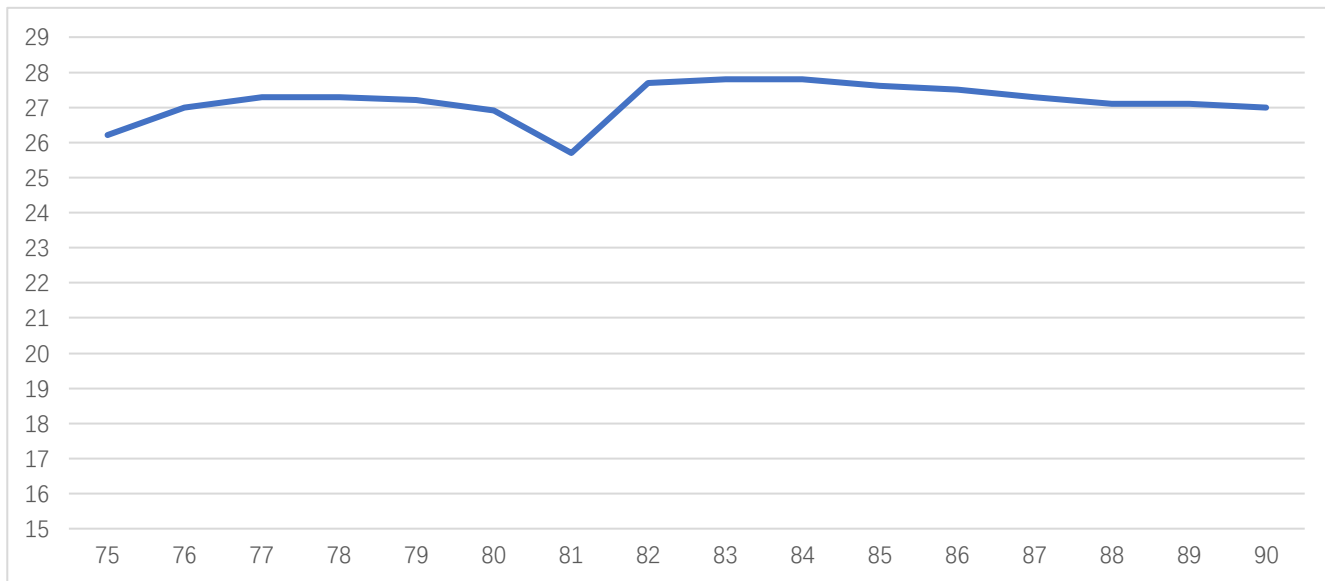
1. Datasheet may be changed according to update of MMIC, Raw materials , process, and so on.
2. This data is only for reference, not for guaranteed specifications.
3. Please contact AT Microwave team to make sure you have the most current data.

## Test Data:(23C)



Gain Vs Frequency





Pout Vs Frequency

**Dimension:**(unit in mm)

