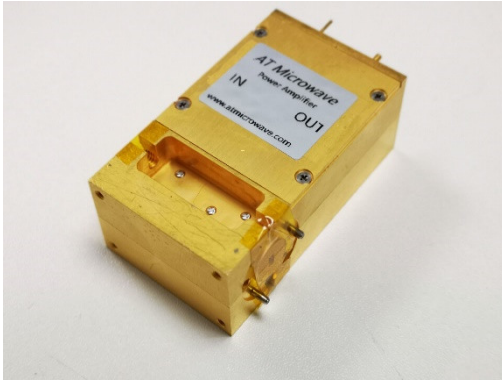


E2 Band Power Amplifier



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

Advantages

- ✓ Frequency: 75-90GHz
- ✓ Psat:+27dBm
- ✓ Small signal gain: 15dB
- ✓ Single Power Supply

Application

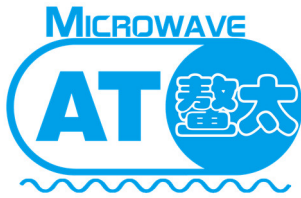
- ✓ E Band Point to Point Communication
- ✓ FOD (Foreigner Objects Debris)
- ✓ Test Equipment
- ✓ ROF (RF Over Fiber)
- ✓ Radar System

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

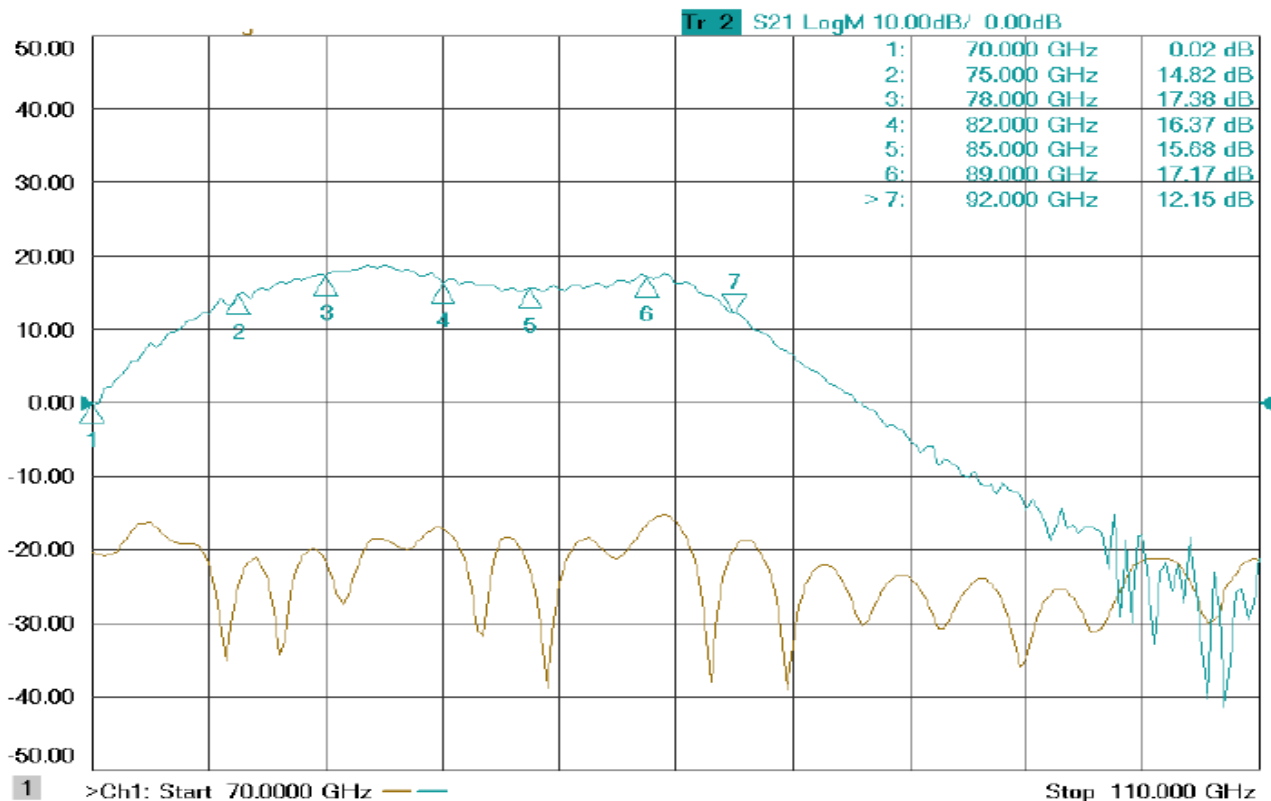
Caution:

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:

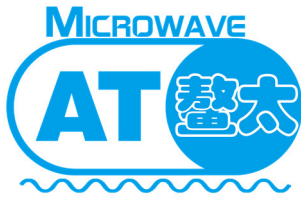
1. Datasheet may be changed according to update of MMIC, Raw materials , process, and so on.
2. This data is only for reference, not for guaranteed specifications.
3. Please contact AT Microwave team to make sure you have the most current data.

Test Data:(23C)



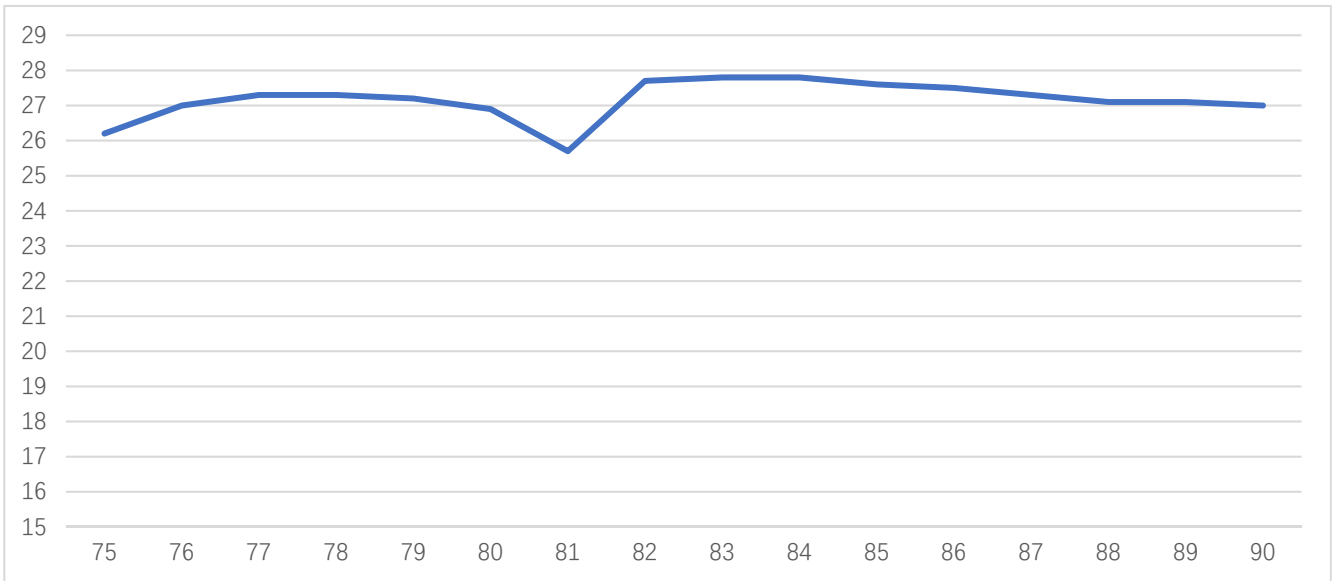
Gain Vs Frequency





AT-PA-7590-1527

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



Pout Vs Frequency

E Band Solution:

