



AT-PA-7588-3327

75-88GHz Power Amplifier, Psat=+27dBm

E2 Band High Gain, High Power Amplifier

Product Overview



AT-PA-7588-3327 is high gain high power amplifier with +27dBm output power in the frequency of 75-88GHz. The DC power requirement is +5V, with current 1.8A at NO RF and 2.7A at Psat. 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: 75-88GHz
- ✓ Psat:+27dBm
- ✓ Small signal gain: 33dB
- ✓ Single Positive 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		75-88GHz	
Gain	30	33dB	
Drain Supply		+5V	+6V
P1dB		+25dBm	
Psat	+25	+27dBm	
Idd/NO RF		1.8A	
Idd/Psat		2.7A	3A
Input Return Loss		-7 dB	
Output Return Loss		-5 dB	
Spec Temp		25C	





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Mechanical Information

Item	Description
Input Port	WR-12
Output Port	WR-12
Case Material	Copper
Finish	Gold Plated
Weight (Without Heatsink)	270g
Size:	See outline

Absolute Maximum Ratings Table

Parameter	Value
Drain Supply	+7V
RF Input Power	+12dBm
Operating Temperature	0 to +50C
Storage Temperature	-65 to +150C

Caution:

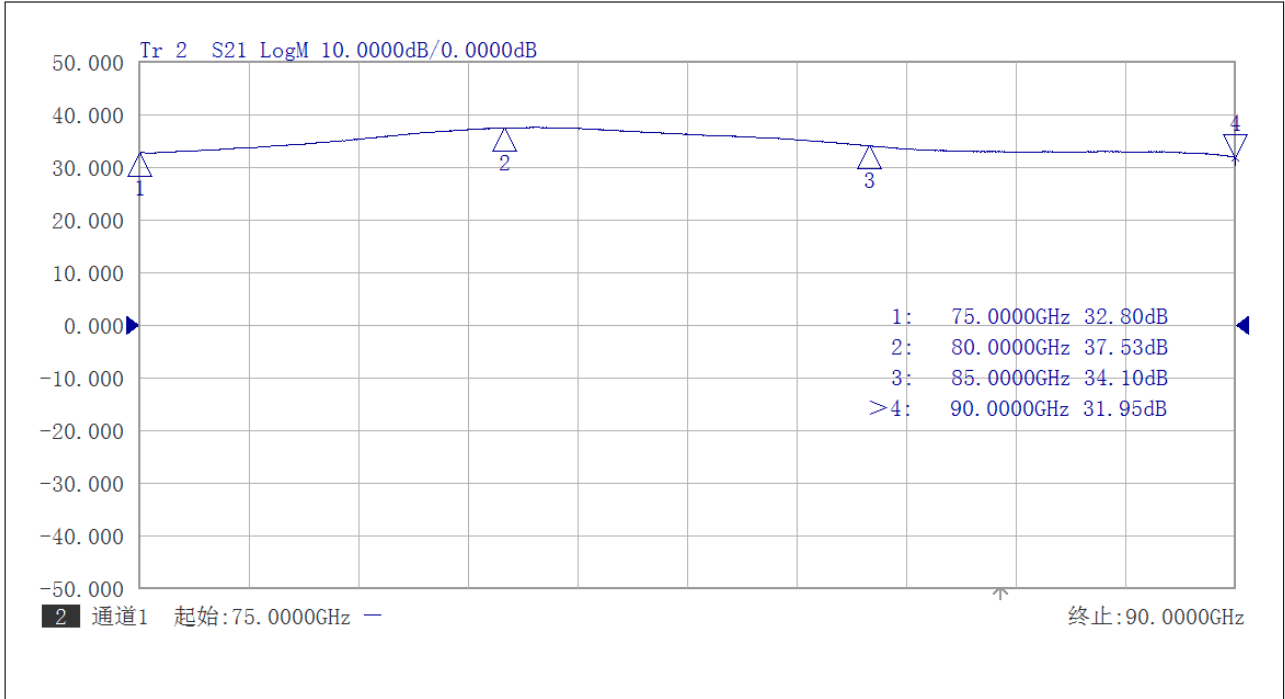
Please pay attention to the case temperature. If case temperature exceeds higher than +50C, heat sink and fan are required, or the amplifier may be damaged.

Notes:

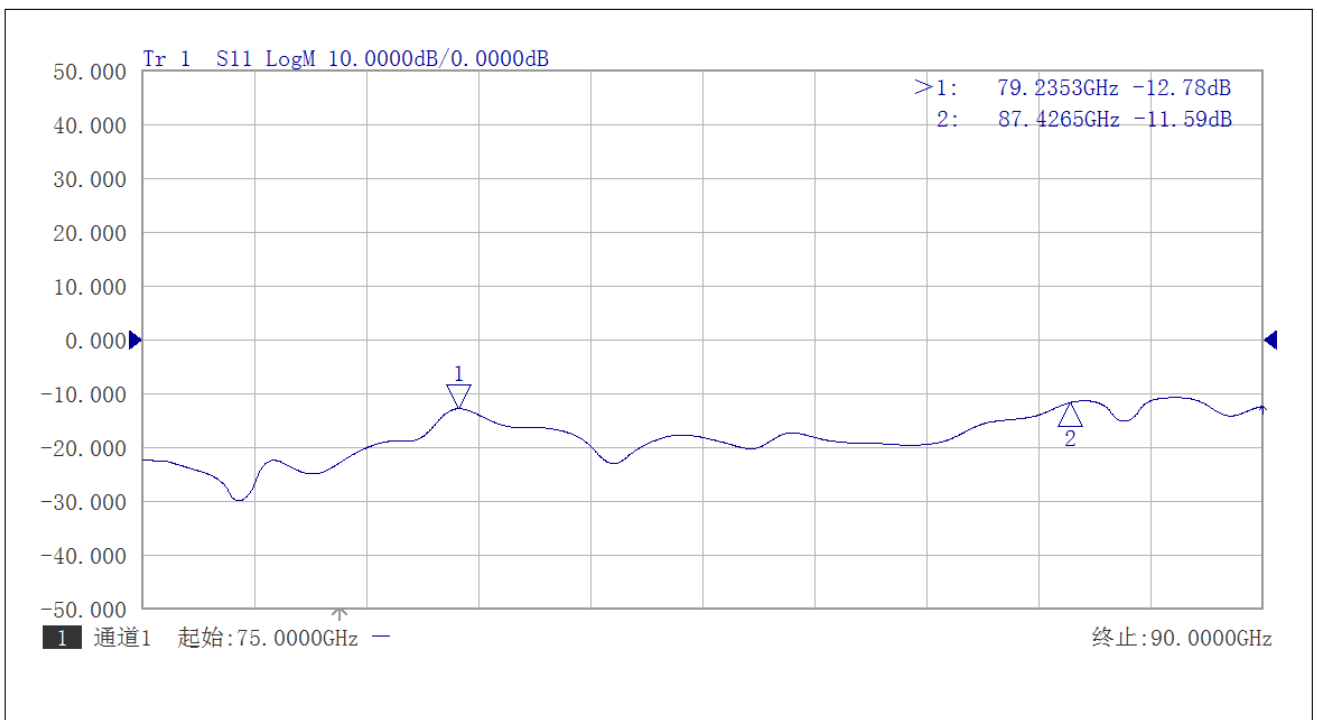
1. Datasheet may be changed according to update of MMIC, Raw materials , process, and so on.
2. This data is only for reference, not for guaranteed specifications.
3. Please contact AT Microwave team to make sure you have the most current data.



Test Data



Gain vs Frequency 75-88GHz



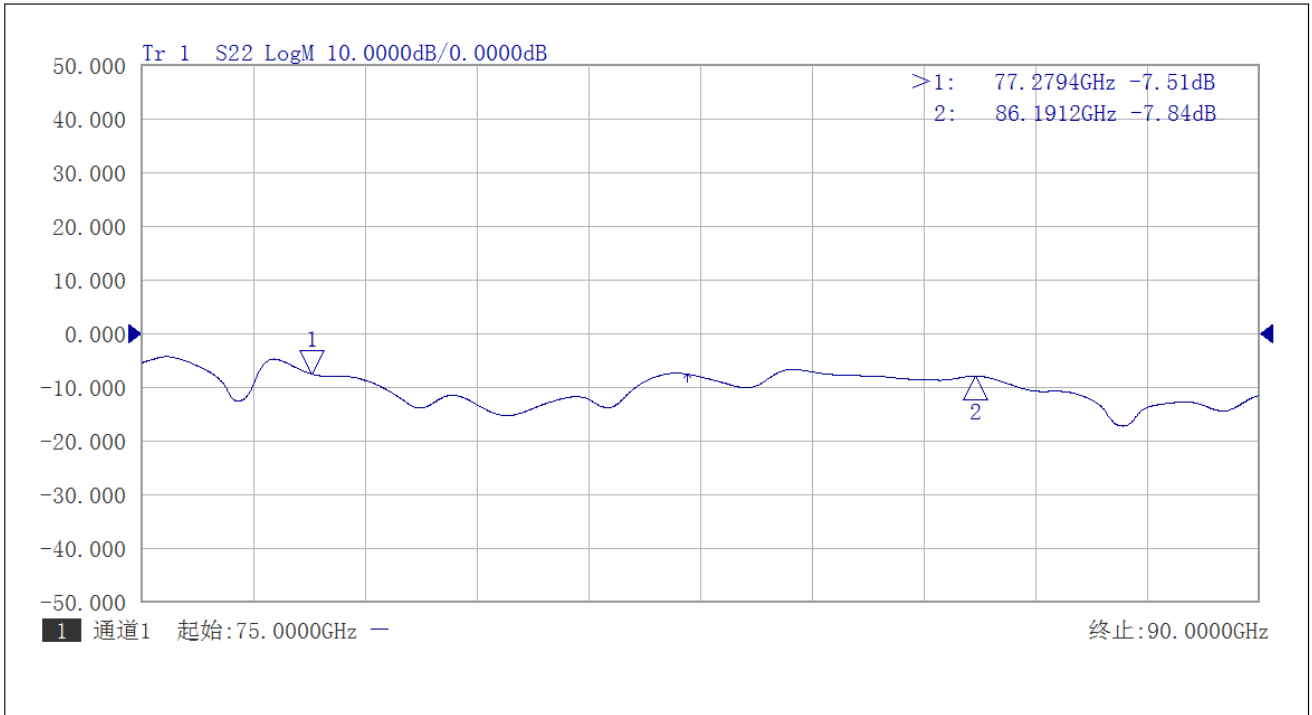
Input Return Loss



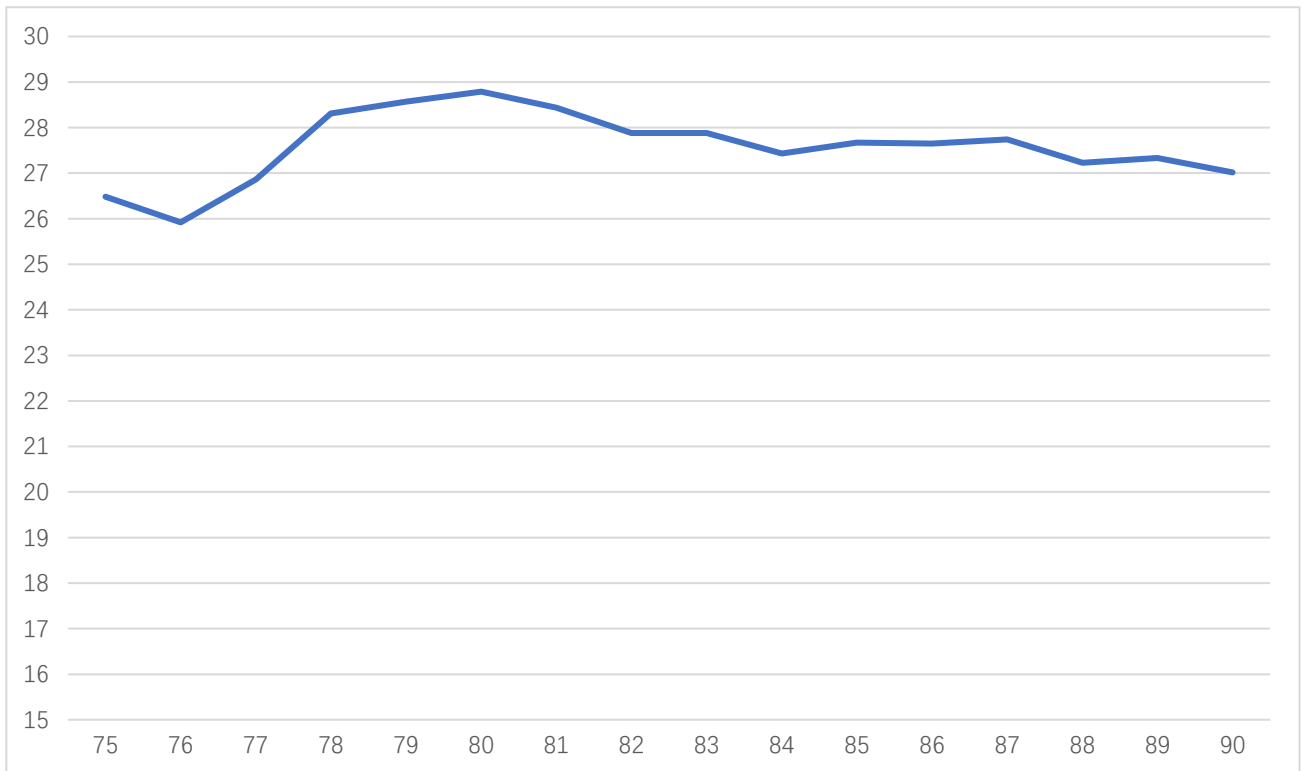


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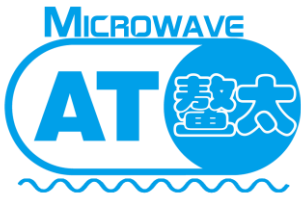


Output Return Loss



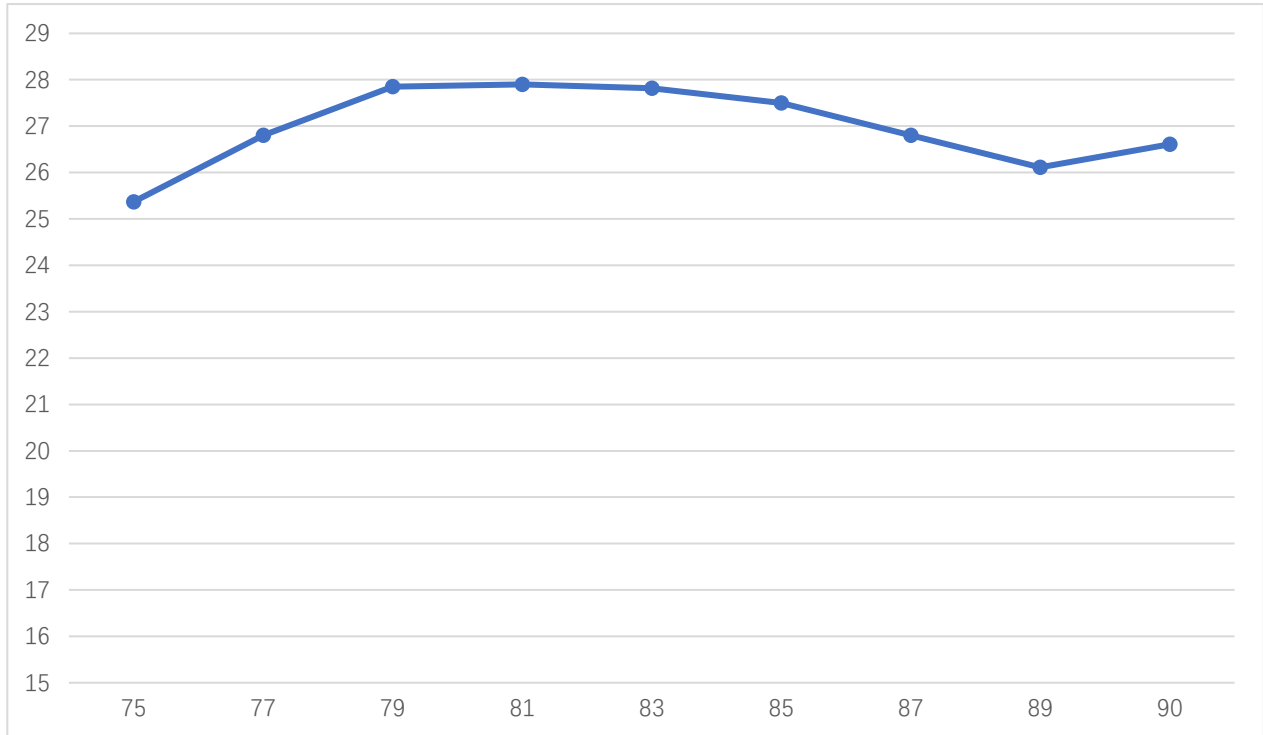
Psat vs Frequency



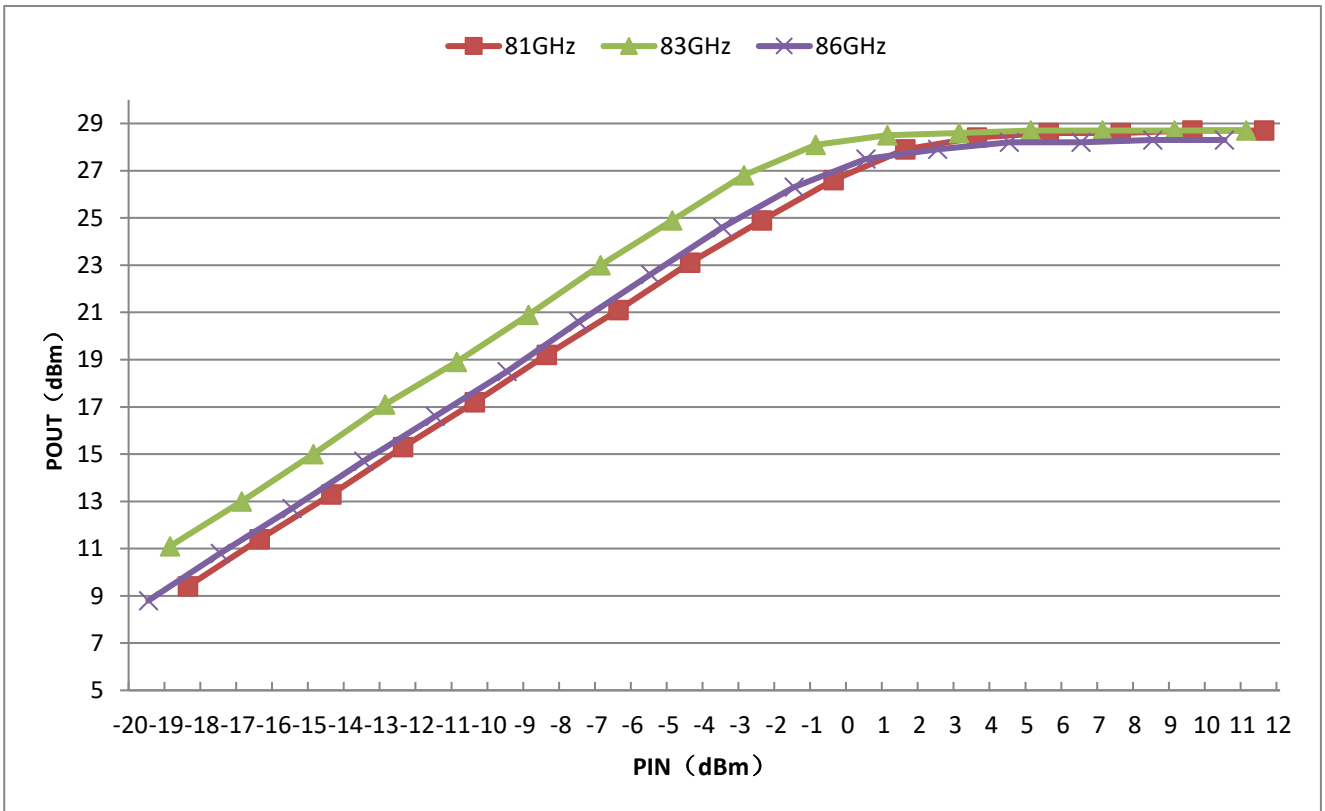


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P1dB vs Frequency



Pout vs Pin at 81/83/88GHz

Shanghai AT Microwave Limited

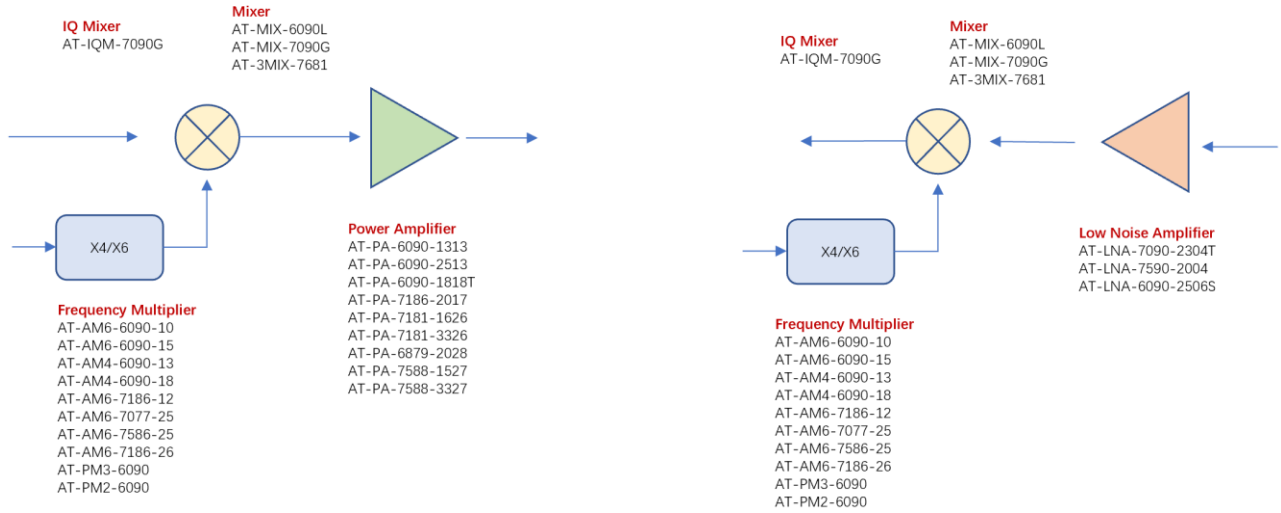
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E Band 60-90GHz



Dimension:(unit in mm)

