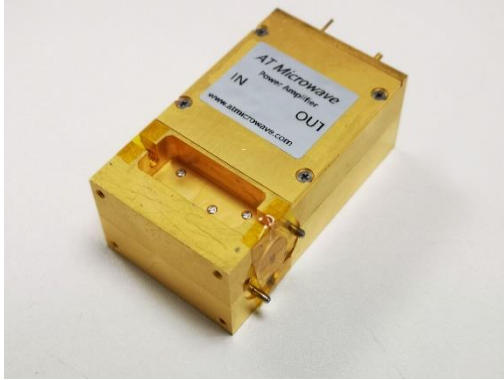


80-105GHz Medium Power Amplifier

2020-12-04



Product Overview

AT-PA-80105-1510 is W band 80-105GHz medium Power amplifier with 15db gain and +10dBm output power. The DC power requirement is +5V/150mA. The module is with a standard WR-10 waveguide.

High gain modules with 25d gain modules is available. More information, please visit www.atmicrowave.com

Advantages

- ✓ Frequency: 80-105GHz
- ✓ Pout: +10dBm
- ✓ Small signal gain: 15dB
- ✓ Single Power Supply

Application

- ✓ W Band Communication
- ✓ Test Equipment
- ✓ ROF (RF Over Fiber)
- ✓ Radar System

Key Features

Parameter	Min	Typical	Max
Frequency		80-105GHz	
Gain	13	15dB	
P1dBm		+6dBm	
Psat		+10dBm	
Drain Supply		+5V	+8V
Current		150 mA	200mA
Input Return Loss (80-105GHz)		-7dB	
Output Return Loss (80-105GHz)		-7dB	
Spec Temp		25C	





AT-PA-80105-1510

W Band Medium Power Amplifier

Mechanical Information

Item	Description
Input Port	WR-10
Output Port	WR-10
Case Material	Copper
Finish	Gold Plated
Weight (Without Heatsink)	221g
Size:	See outline

Absolute Maximum Ratings Table

Parameter	Value
Drain Supply	+9V
RF Input Power	+5dBm
Operating Temperature	0 to +50C
Storage Temperature	-65 to +150C

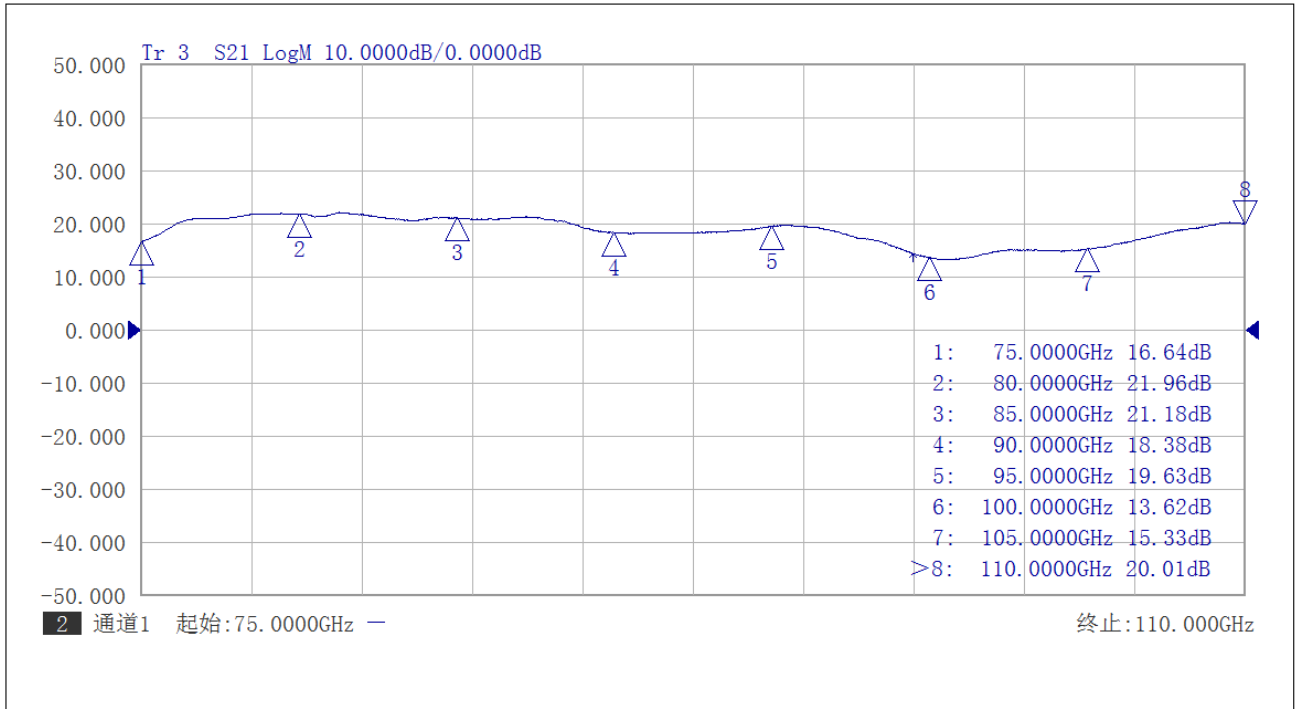
Notes:

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.

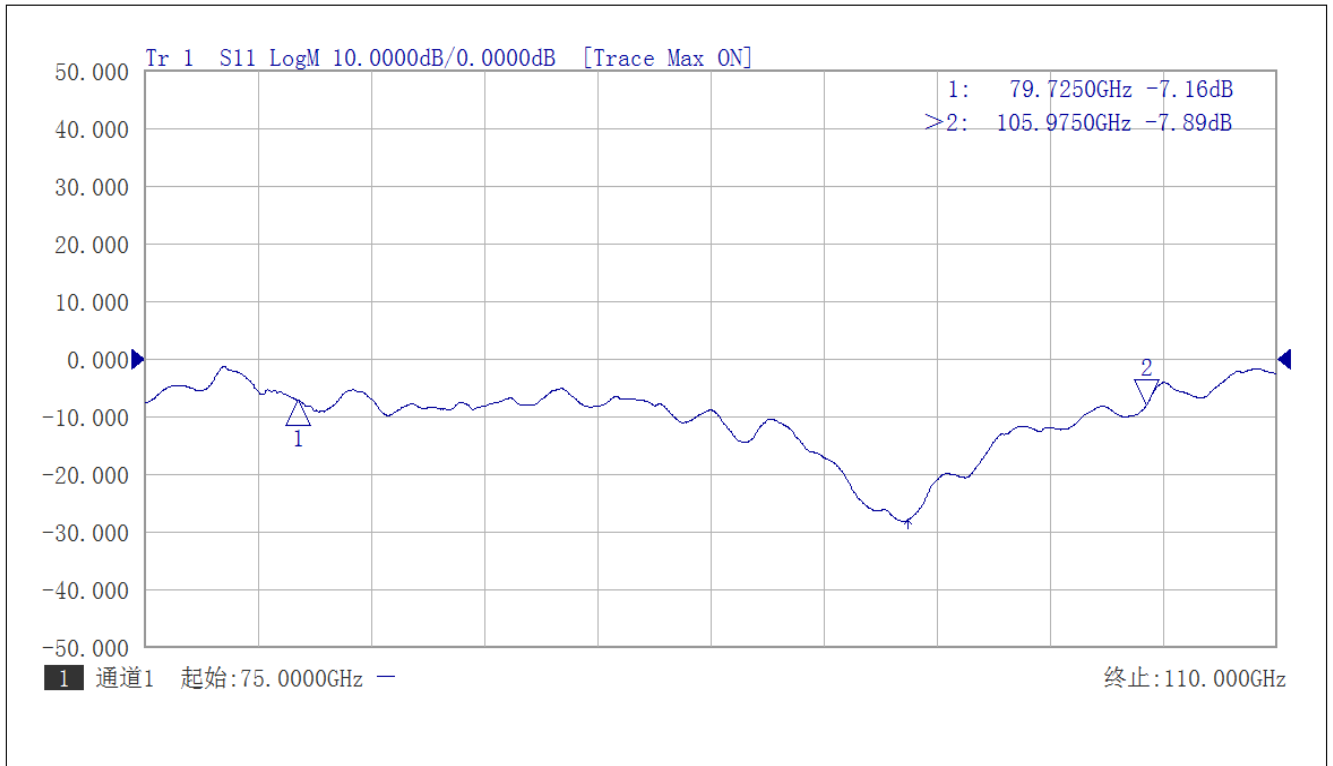
Caution:

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.





Gain vs Frequency



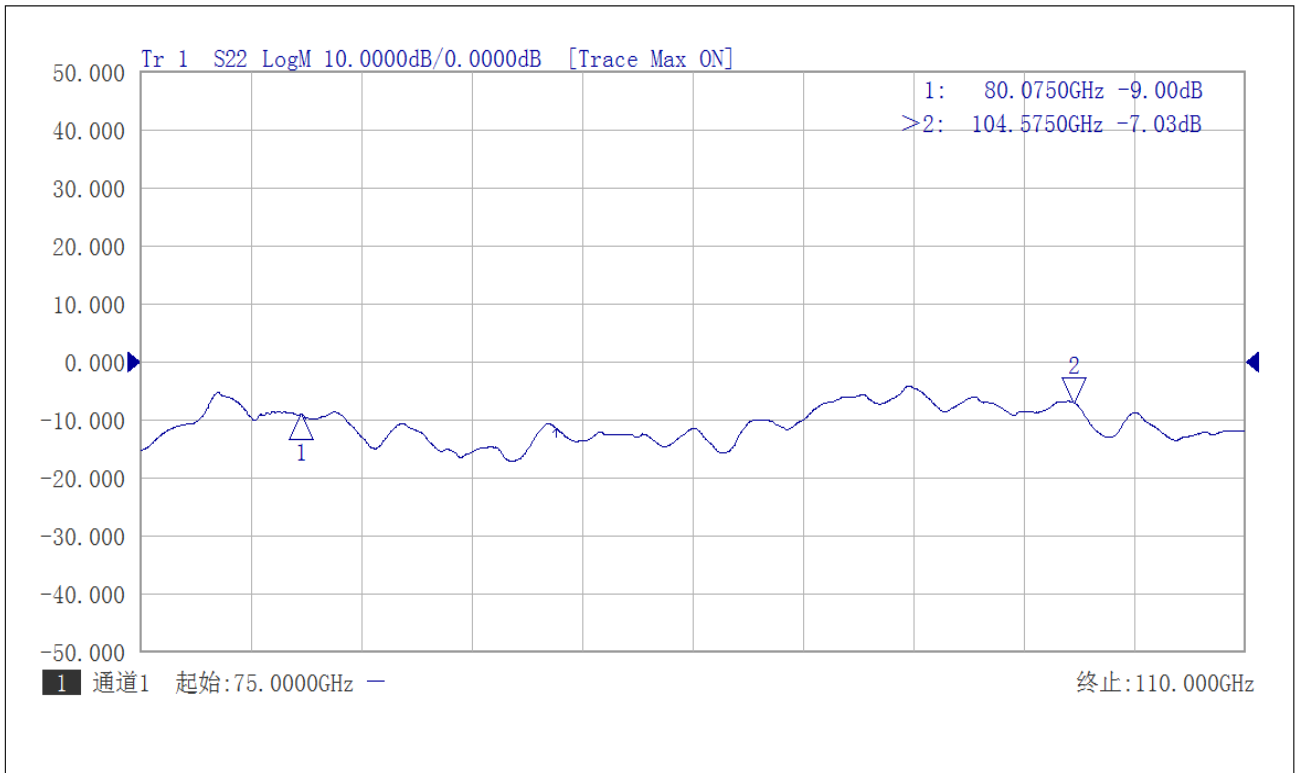
S11 Vs Frequency



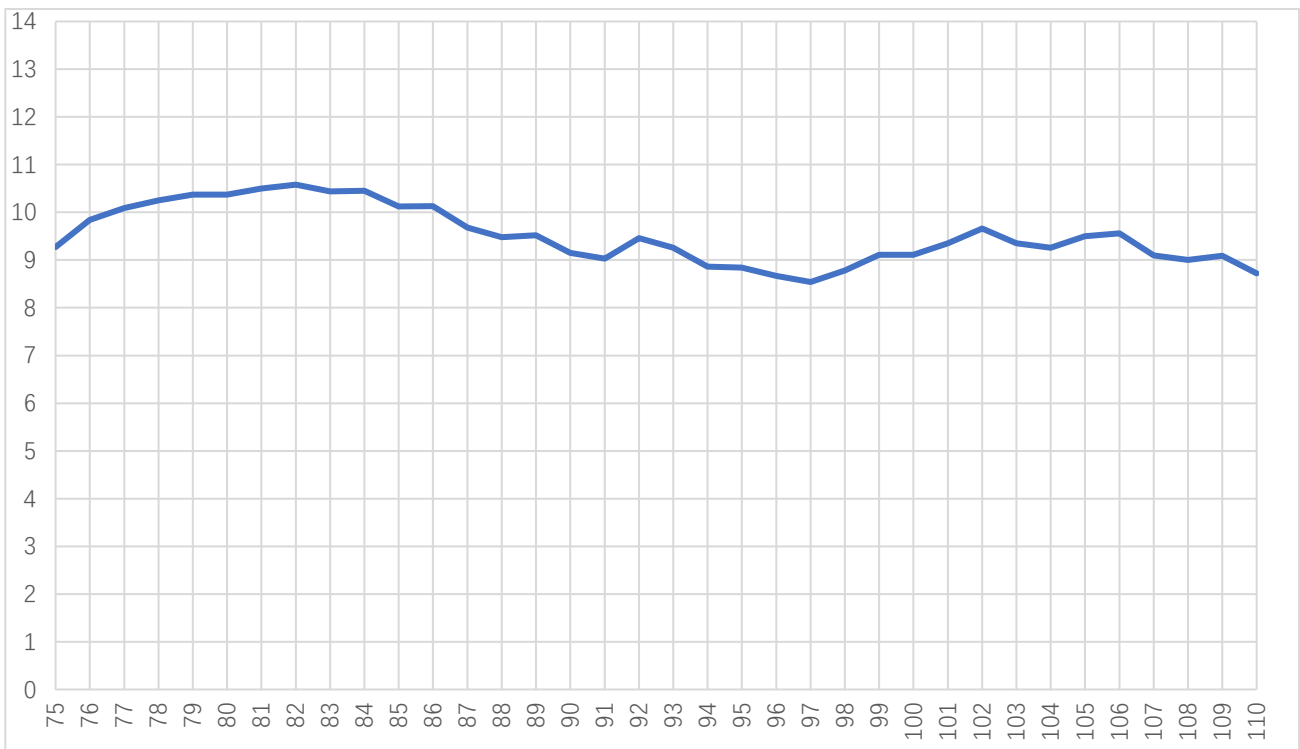


AT-PA-80105-1510

W Band Medium Power Amplifier



S22 vs Frequency



Psat vs Frequency

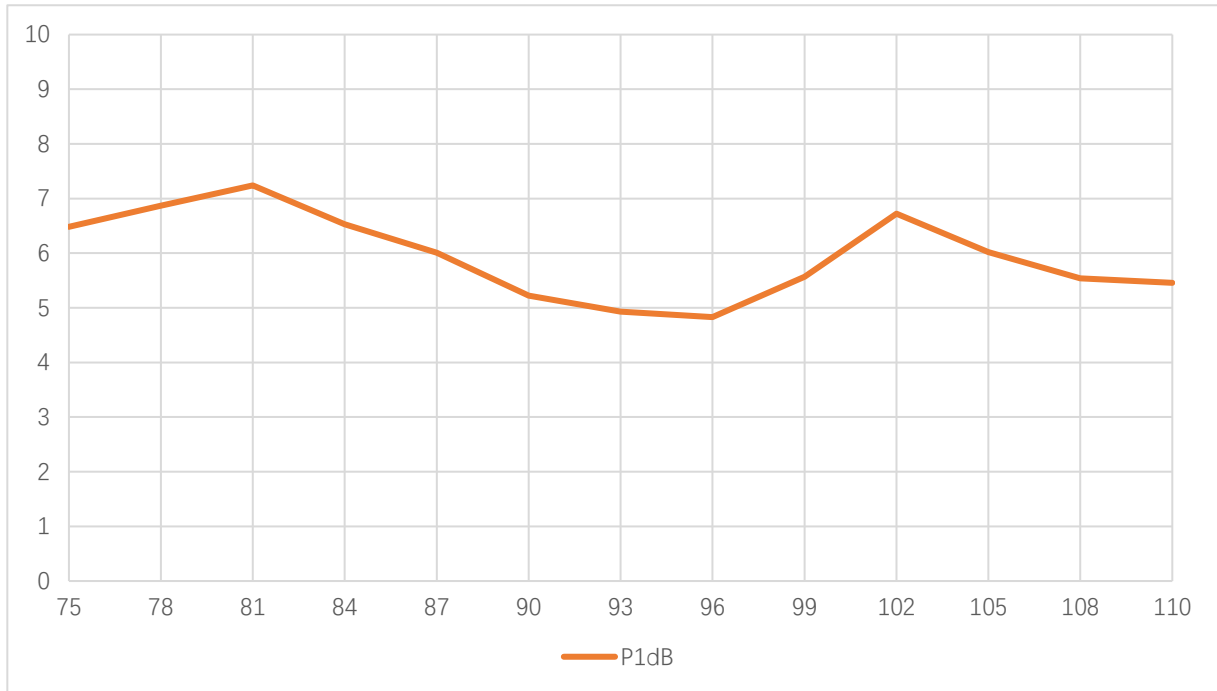
Shanghai AT Microwave Limited

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Email:sales@atmicrowave.com

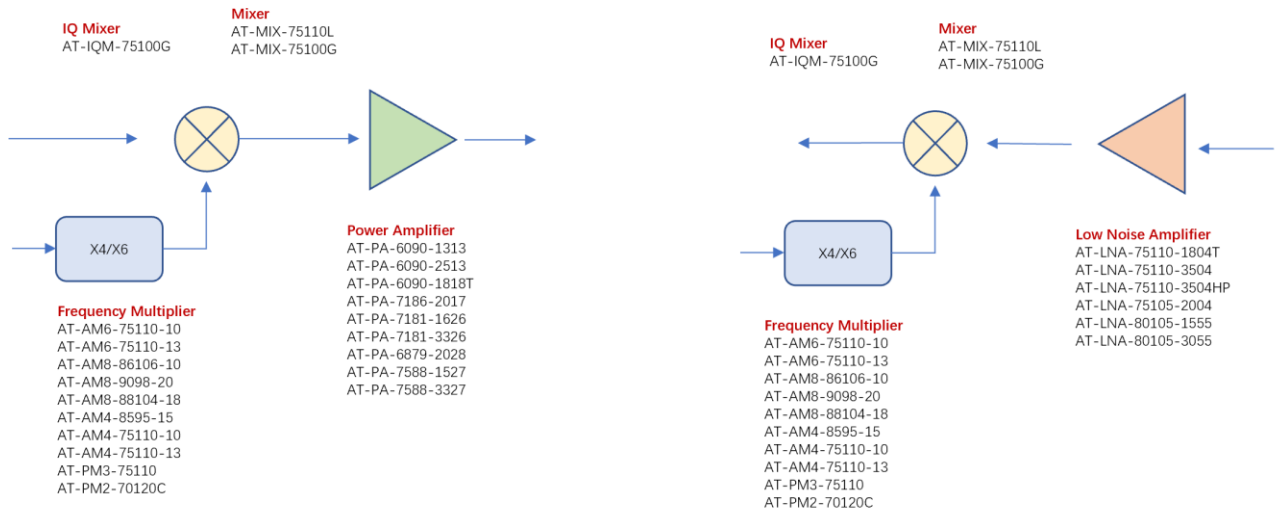
www.atmicrowave.com





P1dB vs Frequency

W BAND 75-110GHZ



Dimension:(unit in mm)

