

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

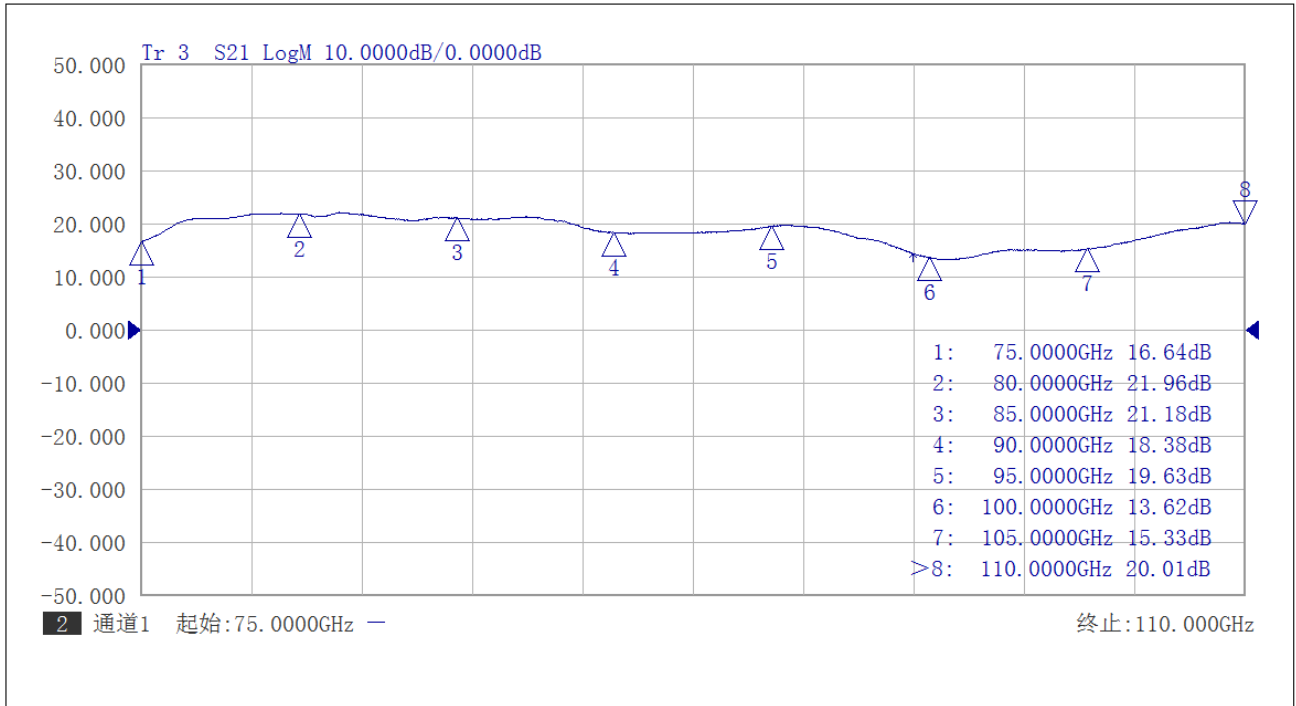
Notes:

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.

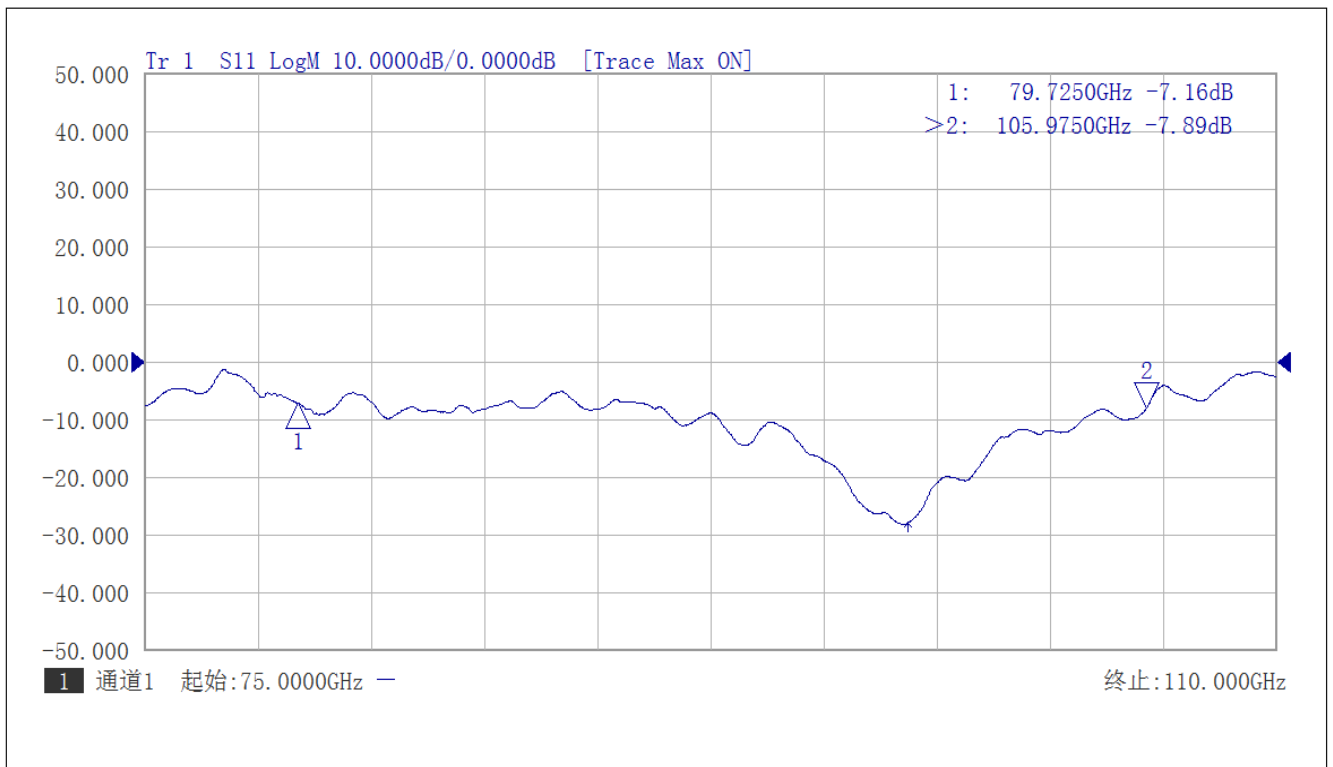
Part Number Selection Guide

Item	Description
PN	Stand Module with DC Power Supply
PN-LCBT	L ow Cost, C ompact B ench- T op, +220V Supply with AC/DC Adapter





Gain vs Frequency



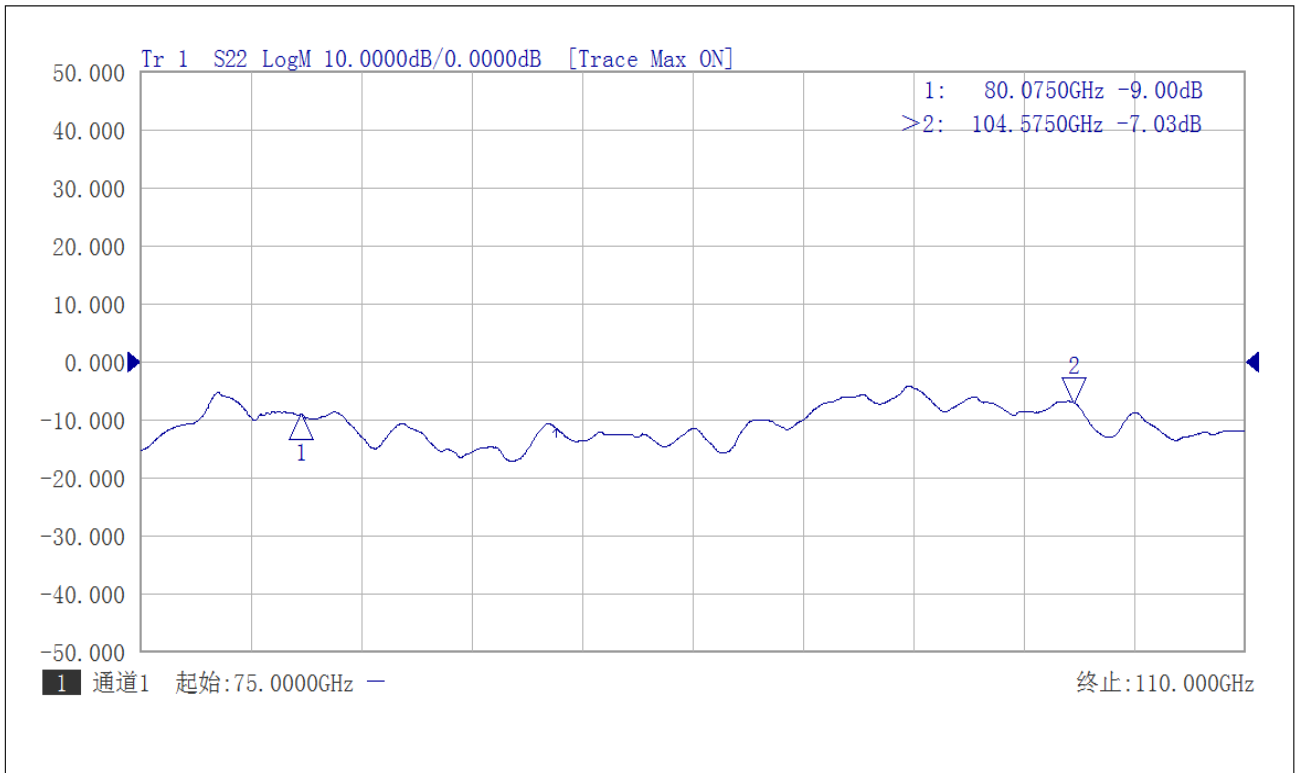
S11 Vs Frequency



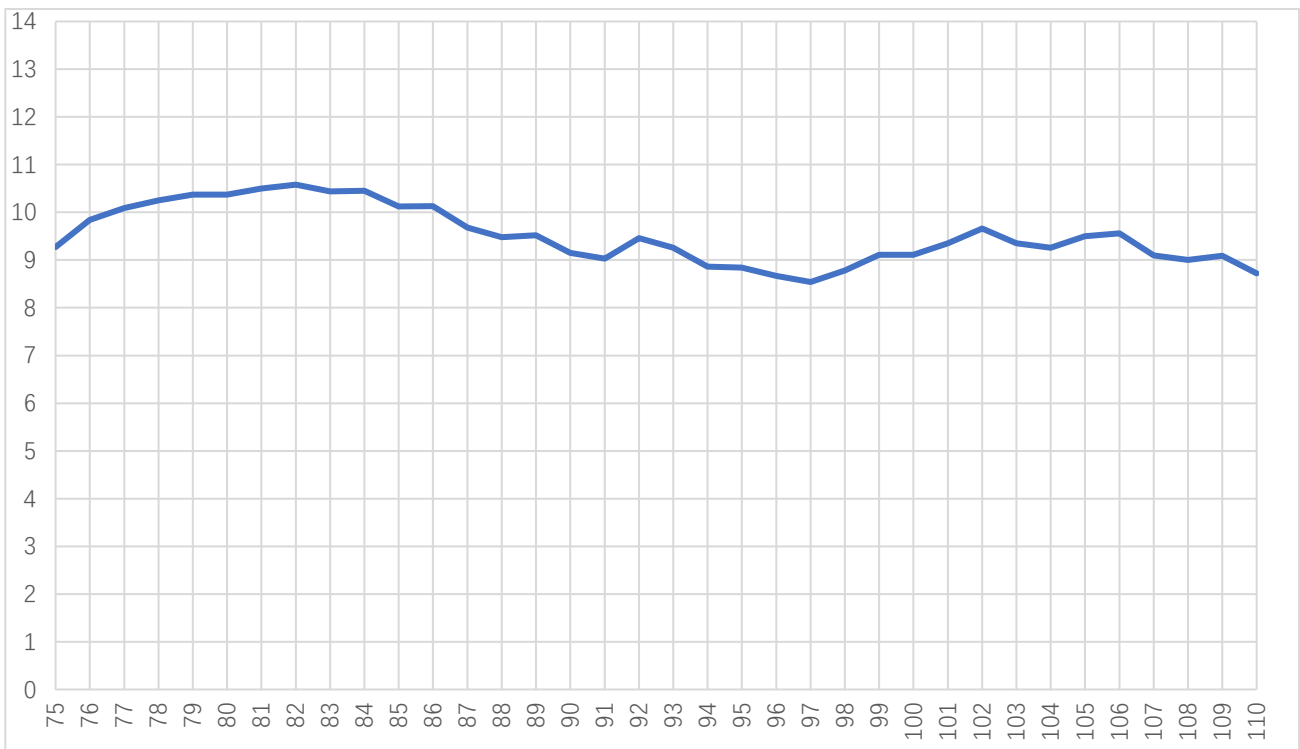


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S22 vs Frequency



Psat vs Frequency

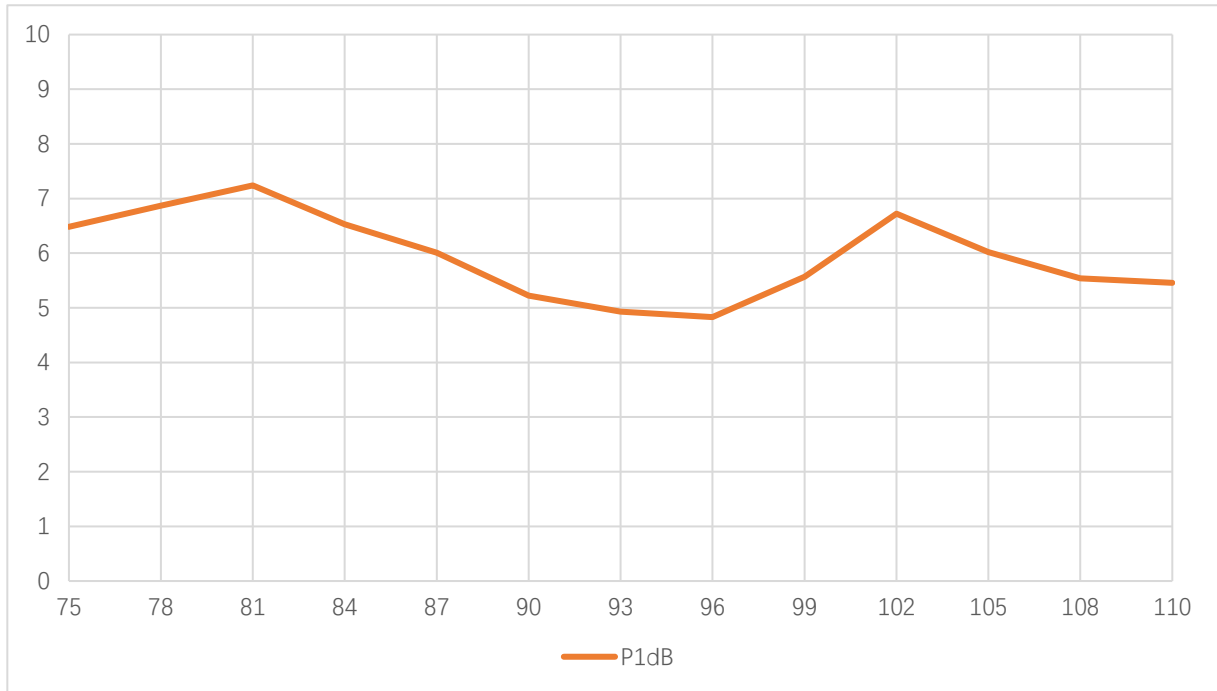
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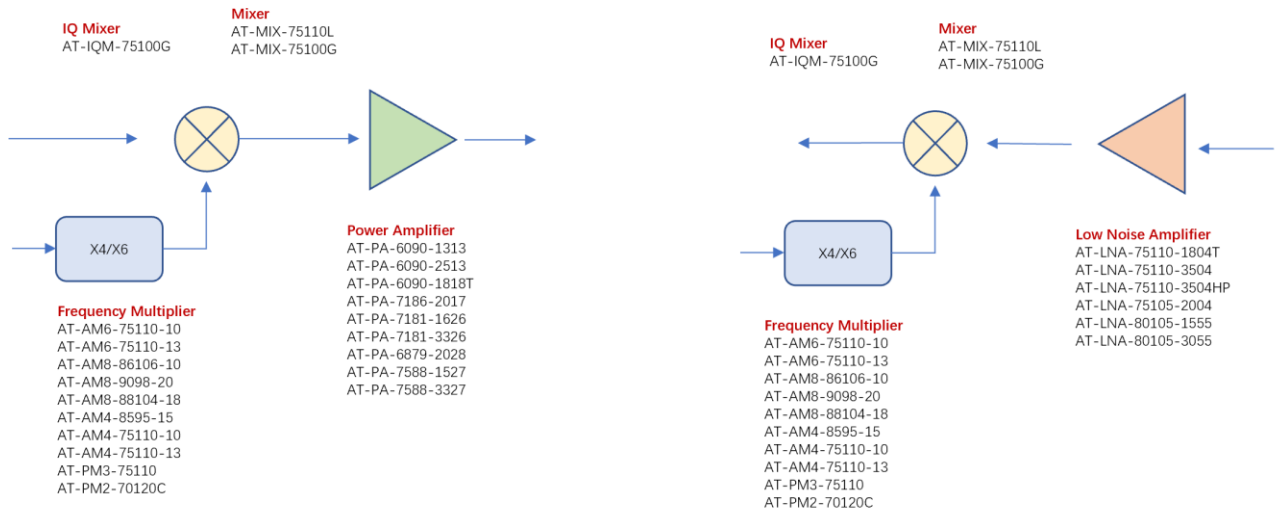
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P1dB vs Frequency

W BAND 75-110GHZ



Dimension:(unit in mm)

