

Full E band MPA, Psat=+13dBm

Product Overview



AT-PA-5595-2513 is a medium power amplifier operating in the 55-95GHz frequency range. The MPA is packaged in a waveguide module using industry standard WR12.

MMIC technology LNA Chip is used, which ensures reliable and repeatable unit-to-unit result. Higher gain amplifier can be achieved.

More information, please visit www.atmicrowave.com

Advantages

- ✓ Frequency: 55-95GHz
- ✓ Gain: 25dB
- ✓ Pout: +13dBm
- ✓ Single Supply

Application

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

Key Features

Parameter	Min	Typical	Max
Frequency	55GHz	60-90GHz	95GHz
Gain	25	28dB	
Output P1dB		+10dBm	
Psat		+13dBm	
Noise Figure		6dB	8
Drain Supply		+5V/350mA	+8V
Input Return Loss		-7dB	
Output Return Loss		-7dB	
Spec Temp		25C	





AT-PA-5595-2513

55-95GHz Medium Power Amplifier

Mechanical Information

Item	Description
Input Port	WR-12
Output Port	WR-12
Case Material	Copper
Finish	Gold Plated
Weight (Without Heatsink)	270g
Size:	57.5x40.5x22.4 mm

Absolute Maximum Ratings Table

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

Notes:

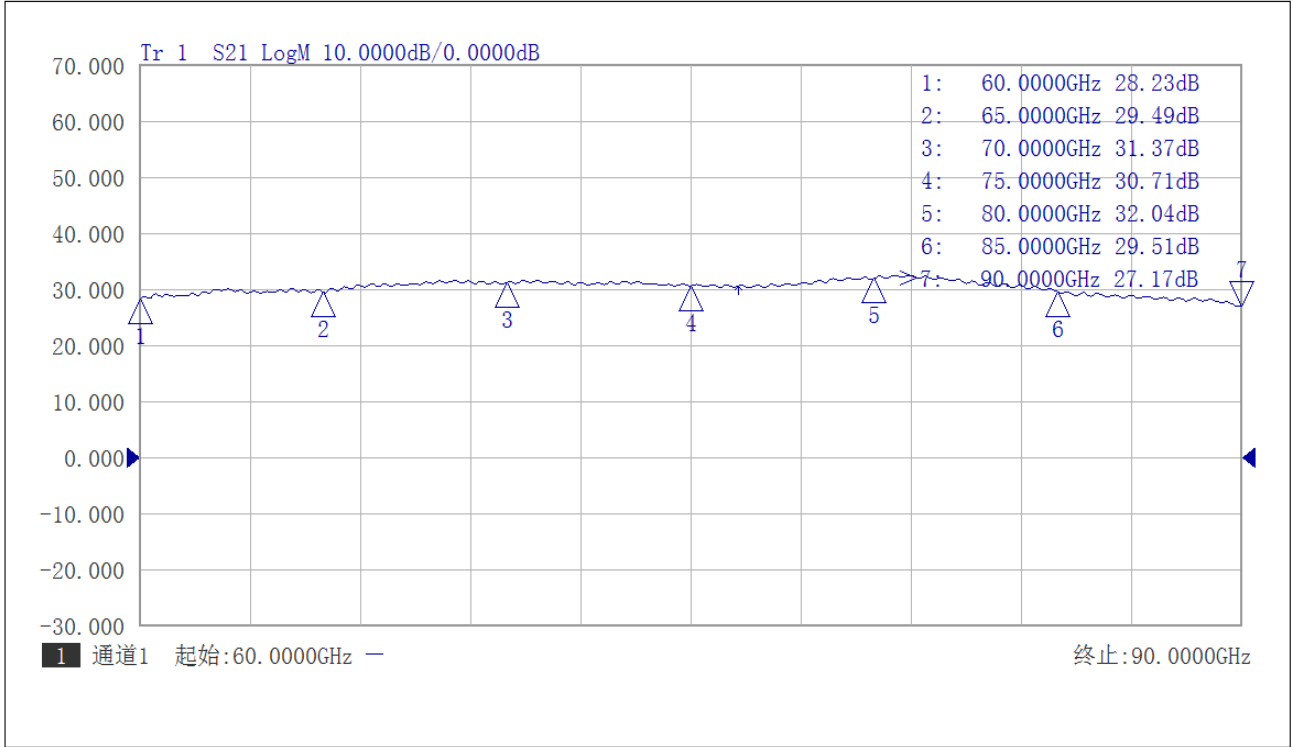
1. Datasheet may be changed according to update of MMIC, Raw materials , process, and so on.
2. This data is only for reference, not for guaranteed specifications.
3. Please contact AT Microwave team to make sure you have the most current data.

Part Number Selection Guide

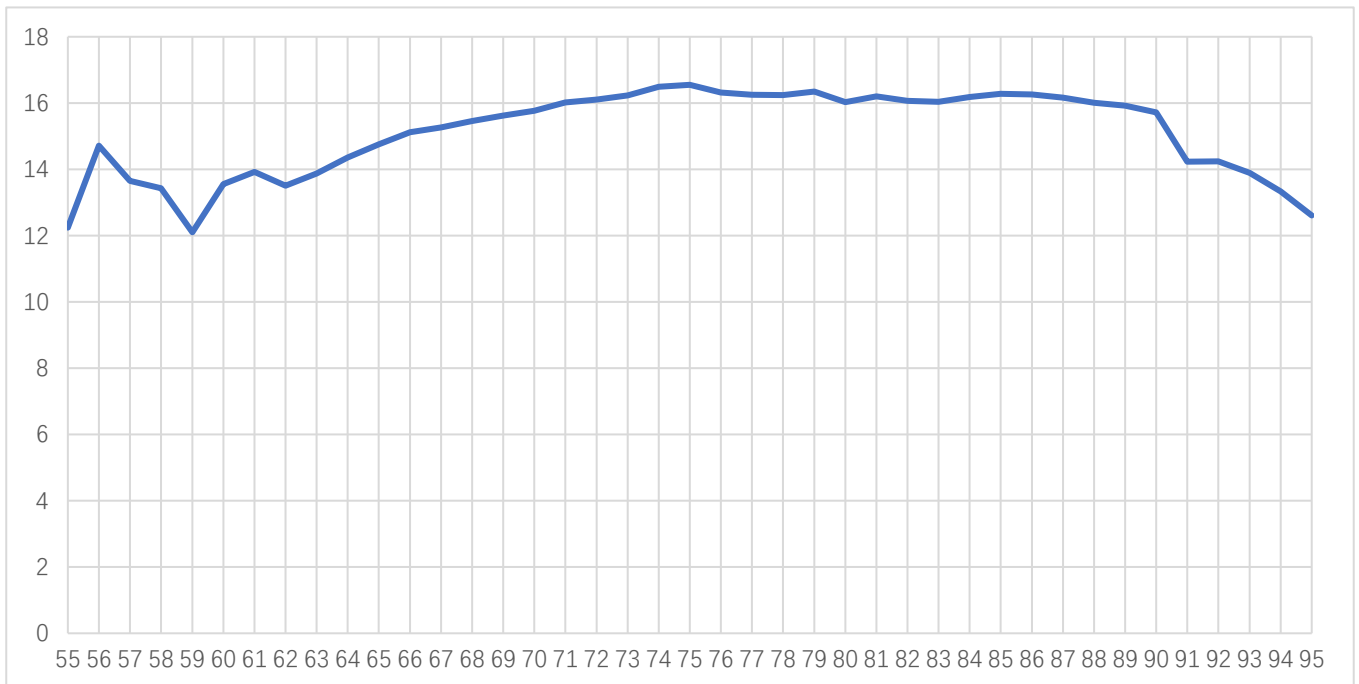
Item	Description
PN	Stand Module with DC Power Supply
PN-LCBT	L ow Cost, C ompact B ench- T op, +220V Supply with AC/DC Adapter



Test Data (25C) 60-90GHz



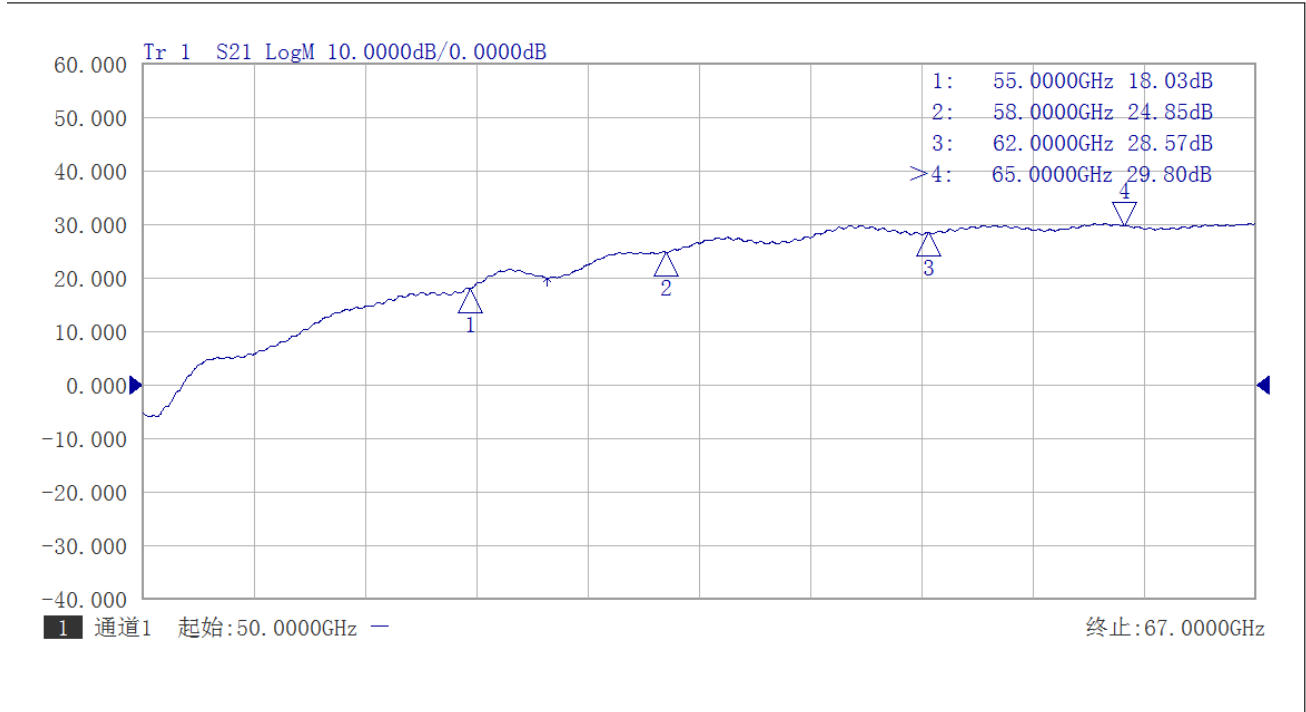
Gain Vs Frequency



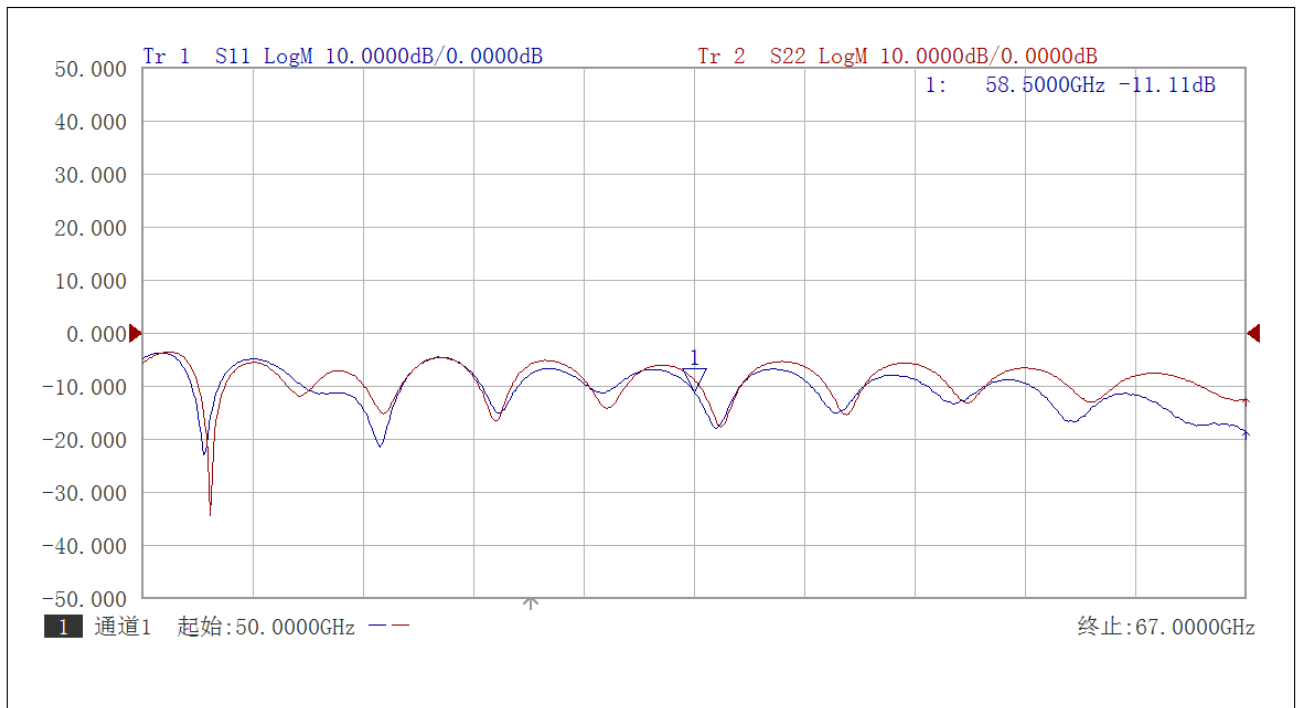
Psat Vs Frequency



Test Data (25C) 55-60GHz



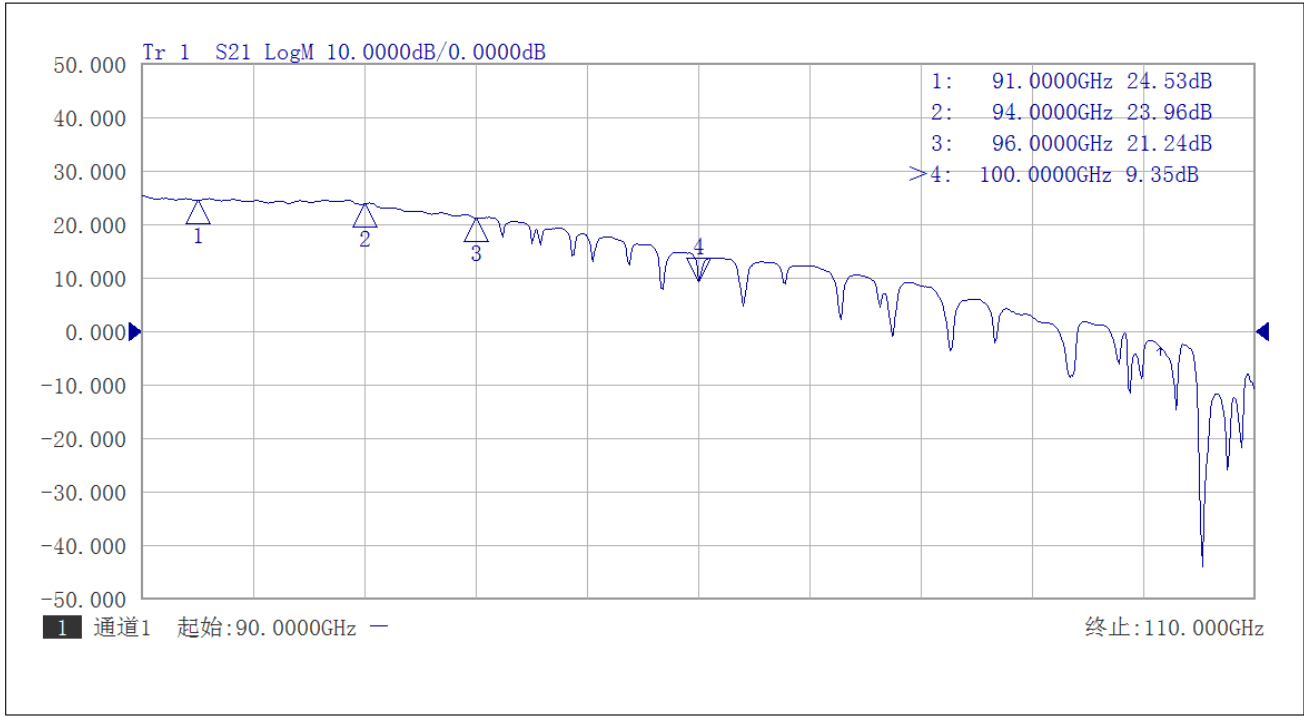
Gain from 50-67GHz



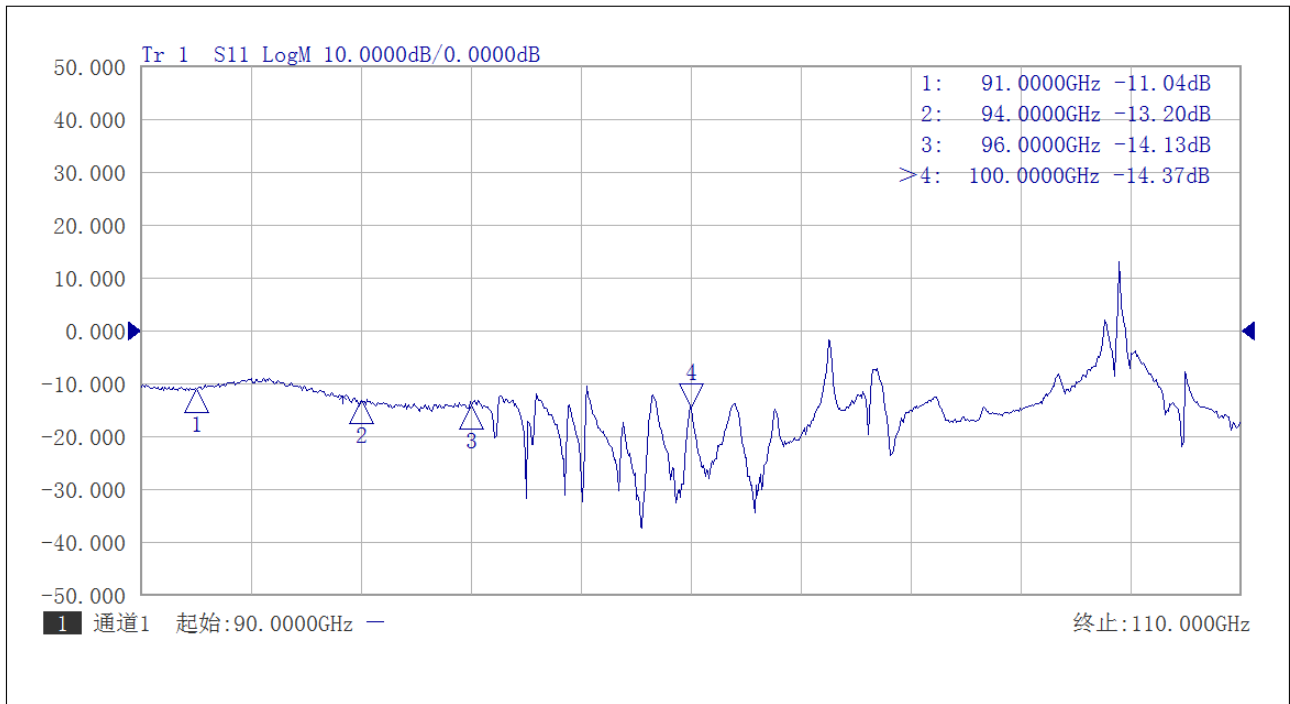
Return Loss from 50-67GHz



Test Data (25C) 90-95GHz

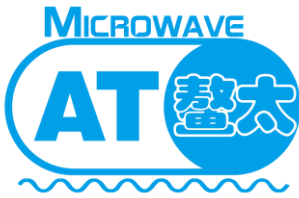


Gain from 90-100GHz



Return Loss 90-110GHz

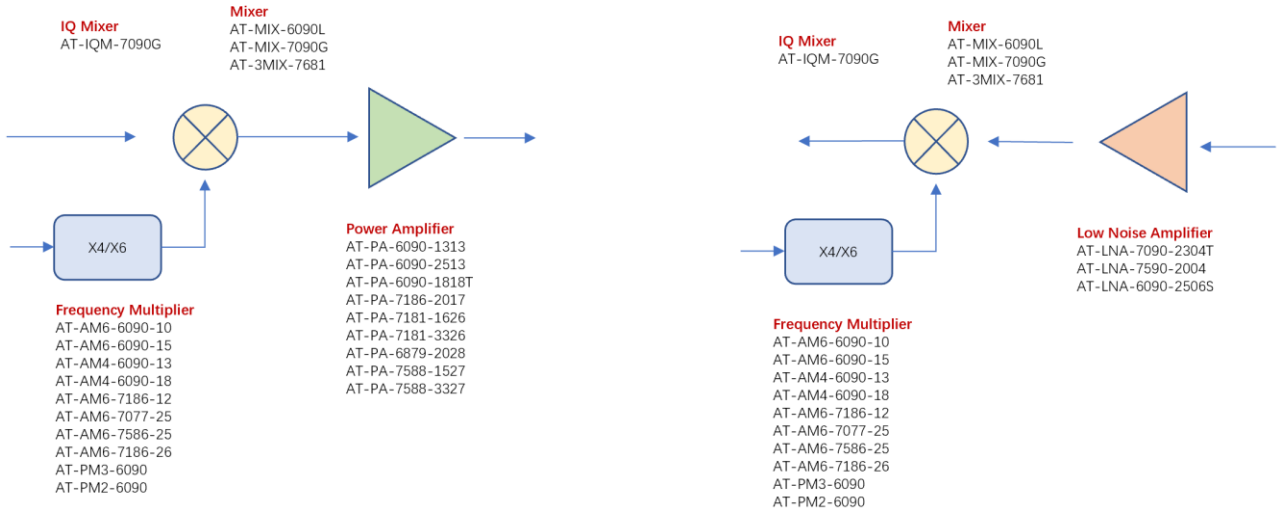




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55-95GHz Medium Power Amplifier

E Band 60-90GHz



Dimension: (mm)

