



AT-PA-6090-3518T

60-90GHz High Gain Power Amplifier

Full E Band Broadband Amplifier

60-90GHz, Gain=38dB, Pout=+18dBm, NF=5dB



Product Overview

AT-PA-6090-3518T is an High Gain amplifier operating in the 60-90GHz frequency range with super low NF=5dB. The PA is packaged in a waveguide module using industry standard WR-12.

The amplifier can be used both as PA and Low Noise Amplifier. It has good performance for full E band, with gain=35dB, NF=5dB and Pout=+18dBm

More information, please visit www.atmicrowave.com.

Advantages

- ✓ Frequency: 60-90GHz
- ✓ Gain: 35dB
- ✓ NF: 5dB
- ✓ Pout=+18dBm

Application

- ✓ E band Communication
- ✓ Test Equipment
- ✓ ROF (RF Over Fiber)
- ✓ Radar System

Key Features

Parameter	Min	Typical	Max
Frequency		60-90GHz	
Gain	32	35dB	
P1dB		+16dBm	
Psat		+18dBm	
NF		5dB	7dB
Drain Supply		+5V	+8V
Current		0.28A	0.35A
Input Return Loss		-8dB	
Output Return Loss		-8dB	
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)	100g
Size:	See outline

Absolute Maximum Ratings Table

Parameter	Value
Drain Supply	+9V
RF Input Power	+10dBm
Operating Temperature	0 to +50C
Storage Temperature	-65 to +150C

Notes:

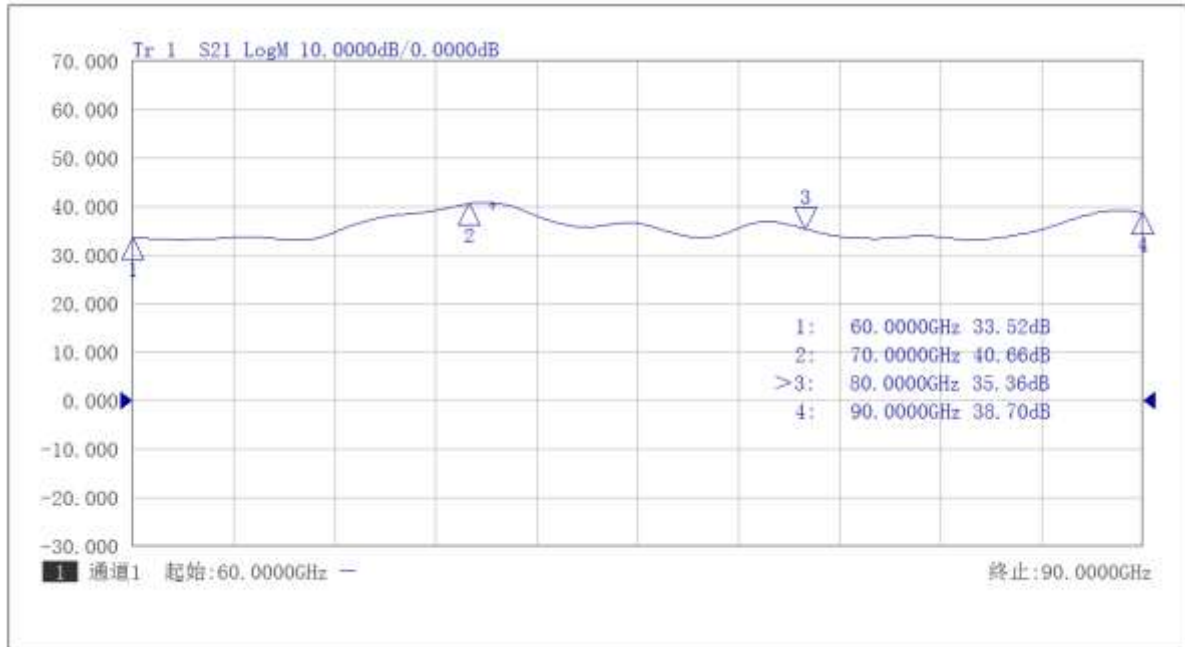
1. Datasheet may be changed according to update of MMIC, Raw materials , process, and so on.
2. This data is only for reference, not for guaranteed specifications.
3. Please contact AT Microwave team to make sure you have the most current data.

Part Number Selection Guide

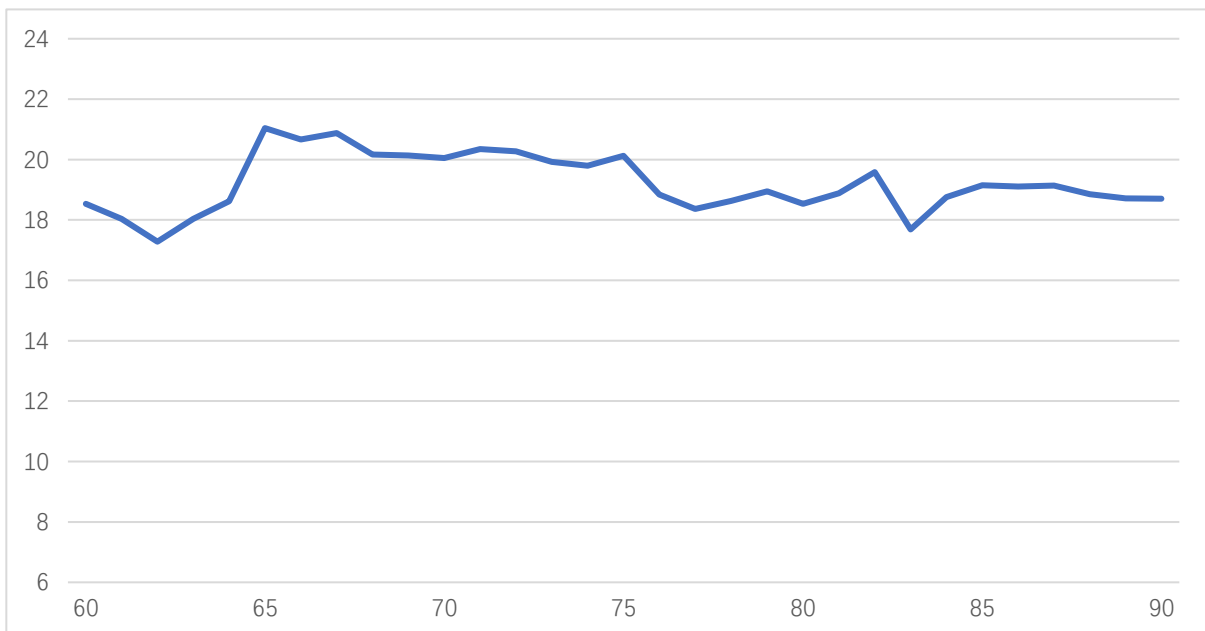
Item	Description
PN	Stand Module with DC Power Supply
PN-LCBT	L ow Cost, C ompact B ench- T op, +220V Supply with AC/DC Adapter



Test Data:

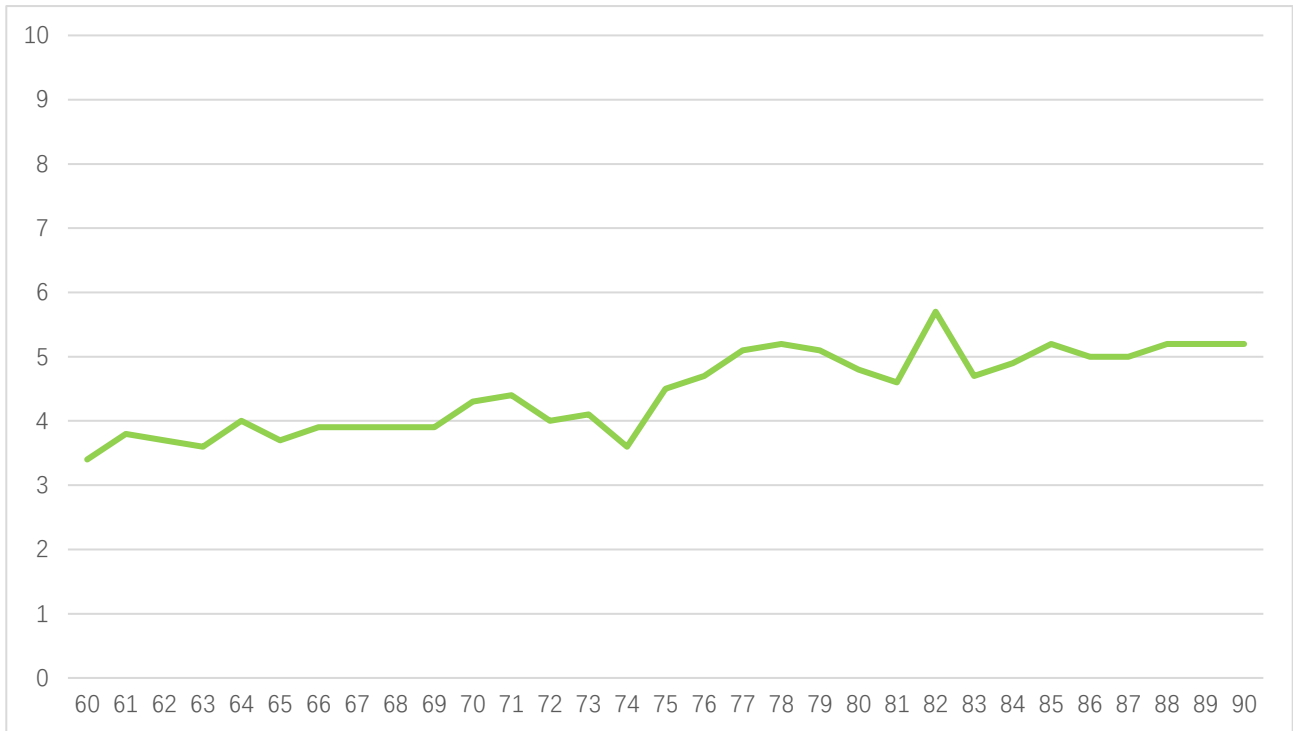


Gain vs Frequency



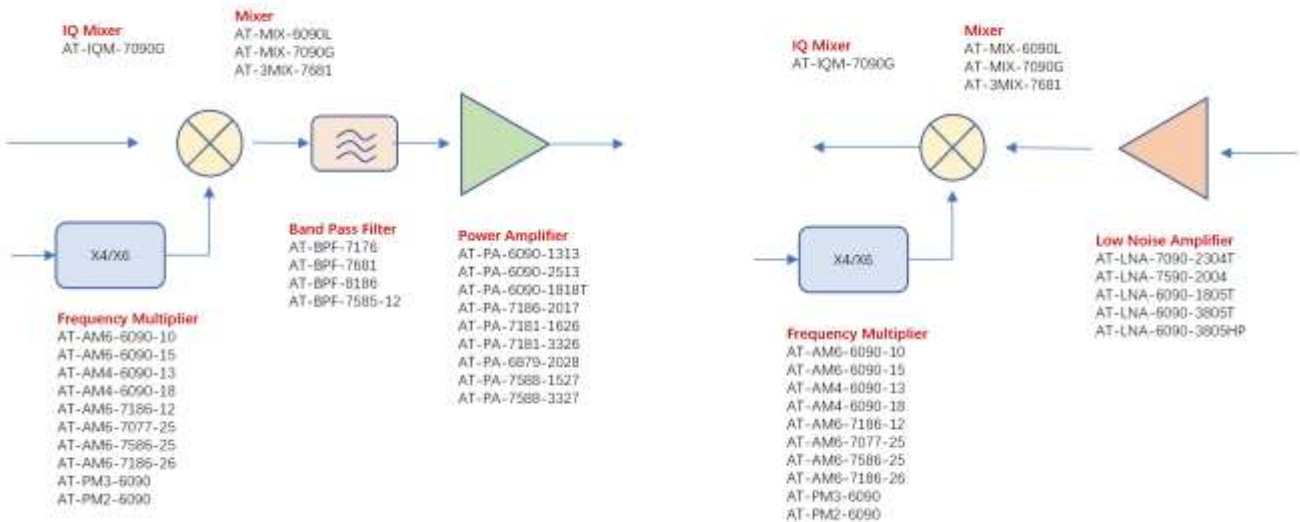
Psat vs Frequency



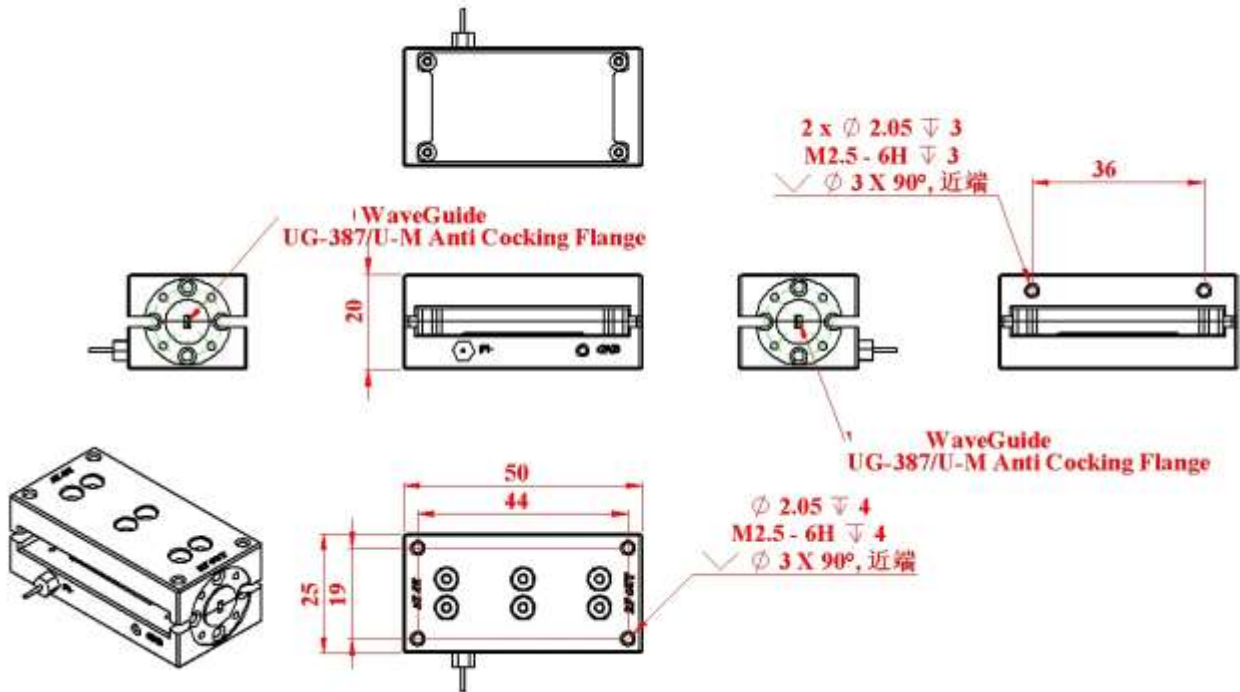


NF vs Frequency

E Band 60-90GHz



Dimension:



PCN

Date	Description
2022-10-1	Outline updated with anti-cocking flange. All RF Performance un-changed.

