

AT-PA-95110-1318GA-10

95-110GHz Power Amplifier, Psat=+18dBm

95-110Hz Power Amplifier, WR-10



Product Overview

AT-PA-95110-1318GA-10 is medium power amplifier with +18dBm output power in the frequency of 95-110GHz. The DC power requirement is +5V/0.9A. The module is with a standard WR-10 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: 95-110GHz
- ✓ Psat:+18 dBm
- ✓ Small signal gain: 13dB
- ✓ Single Power Supply

Application

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

Key Features

Parameter	Min	Typical	Max
Frequency		95-110GHz	
Gain	10dB	13dB	
Drain Supply		+5V	+8V
Quiescent Current/A (NO RF)		0.9A	
PSAT Current/A		1.2A	1.4A
P1Db		+15dBm	
Psat	+15Bm	+18dBm	
Input Return Loss		-10dB	
Output Return Loss		-10dB	
Temp Spec		25C	

Note: Heatsink and fan are required.





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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	+12V
RF Input Power	+15dBm
Operating Temperature	0 to +50C
Storage Temperature	-65 to +150C

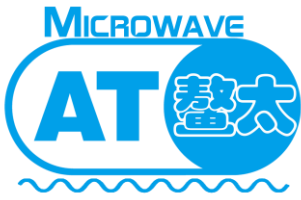
Caution:

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.

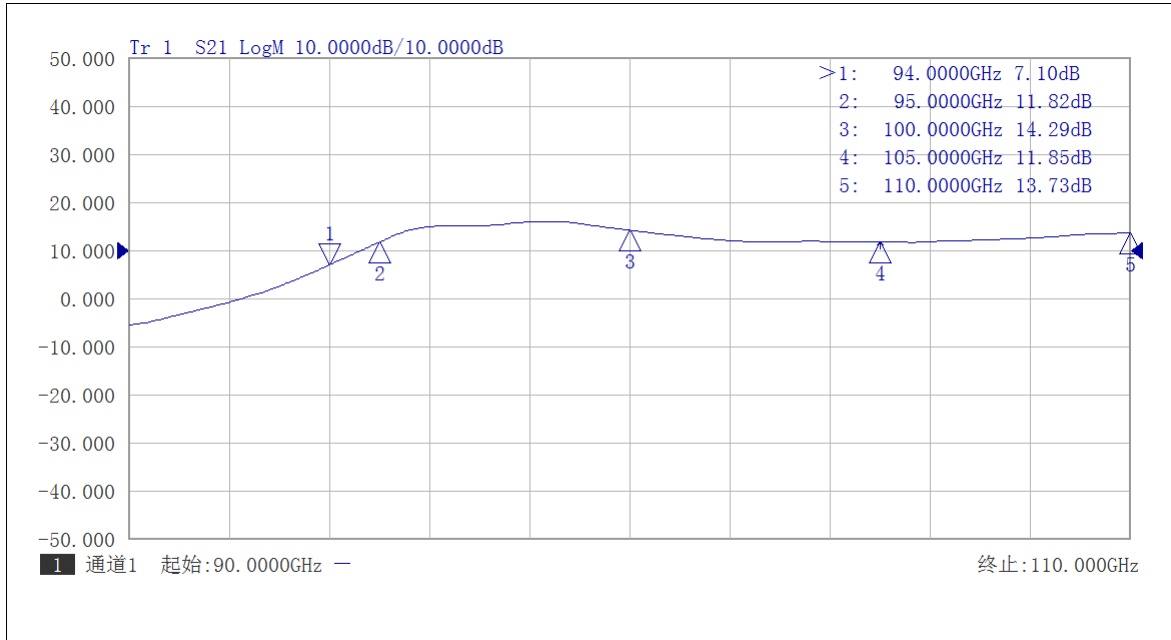




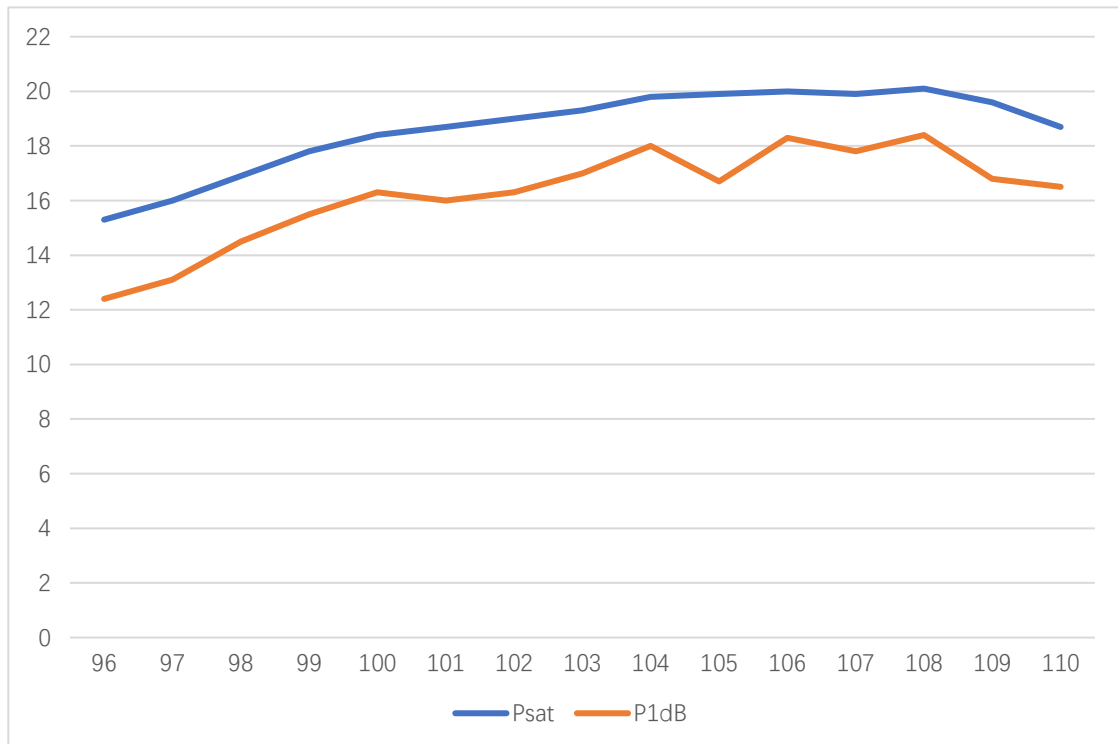
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Test Data:



Gain vs Frequency



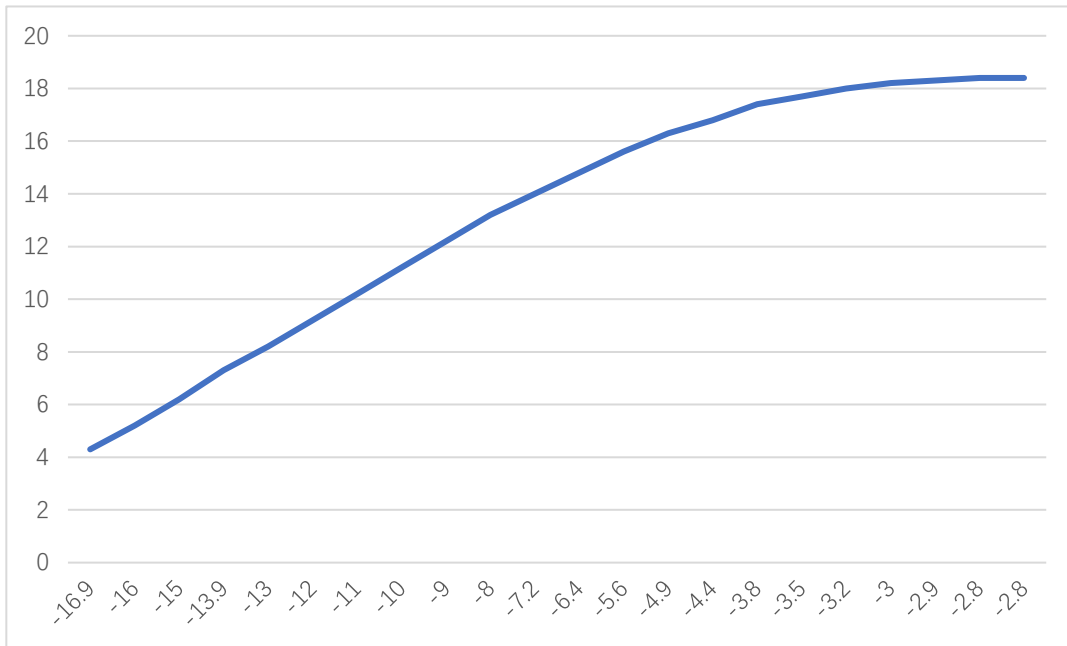
Psat and P1 vs Frequency



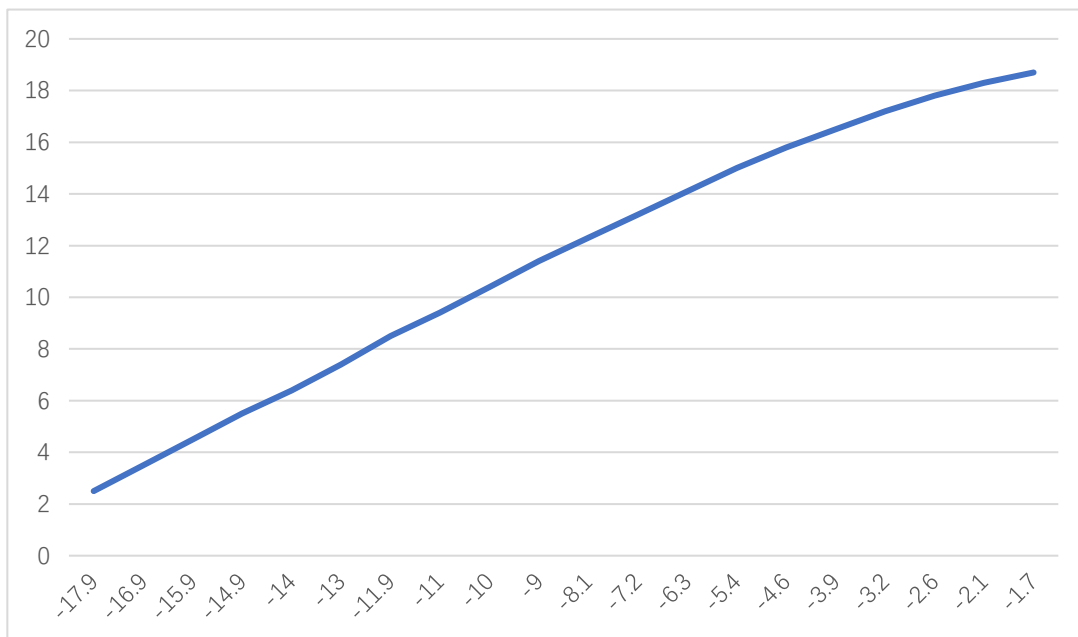


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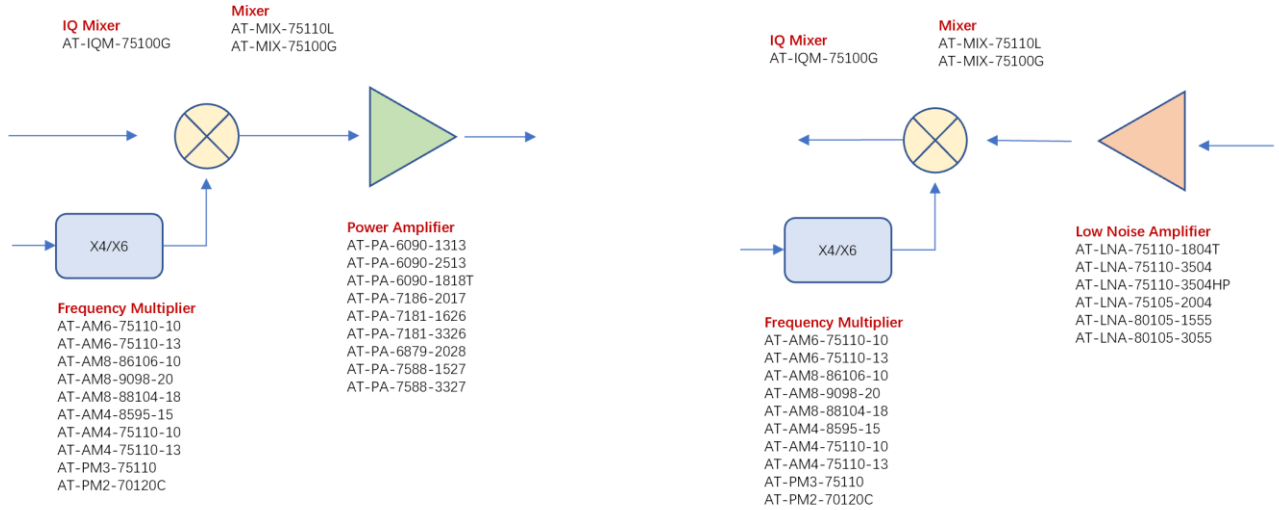
Pout vs Pin at 100GHz



Pout vs Pin at 110GHz



W BAND 75-110GHZ



Dimension:(unit in mm)

