AT-PA-85100-1226

85-100GHz Power Amplifier, Psat=+26dBm

W Band Power Amplifier
85-100GHz, Gain=12dB, Pout=+26dBm

Product Overview

AT-PA-85100-1226 is power amplifier with +26dBm output power in the frequency of 85-100GHz. The DC power requirement is +5V/2.0A. 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: 85-100GHz
- ✓ Psat:+26dBm
- ✓ Small signal gain: 12dB
- ✓ 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		85-100GHz	
Gain	10	12dB	
Psat	+24	+26dBm	
Vdd		+5V	+6V
Idd/Quiescent		1.4A	
IDD/Psat		2.0A	
Fan Bias/Connected with PA Vdd		+5V/0.2A	
Input Return Loss		-7dB	
Output Return Loss		-7dB	
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	+7V
RF Input Power	+20dBm
Operating Temperature	0 to +50C
Storage Temperature	-45 to +85C

Caution:

Fan bias and PA Bias are connected together in default.

Heatsink and Fan are required during operation.

Heatsink and Fan can be removed if customer wants to use their own heatsink system.

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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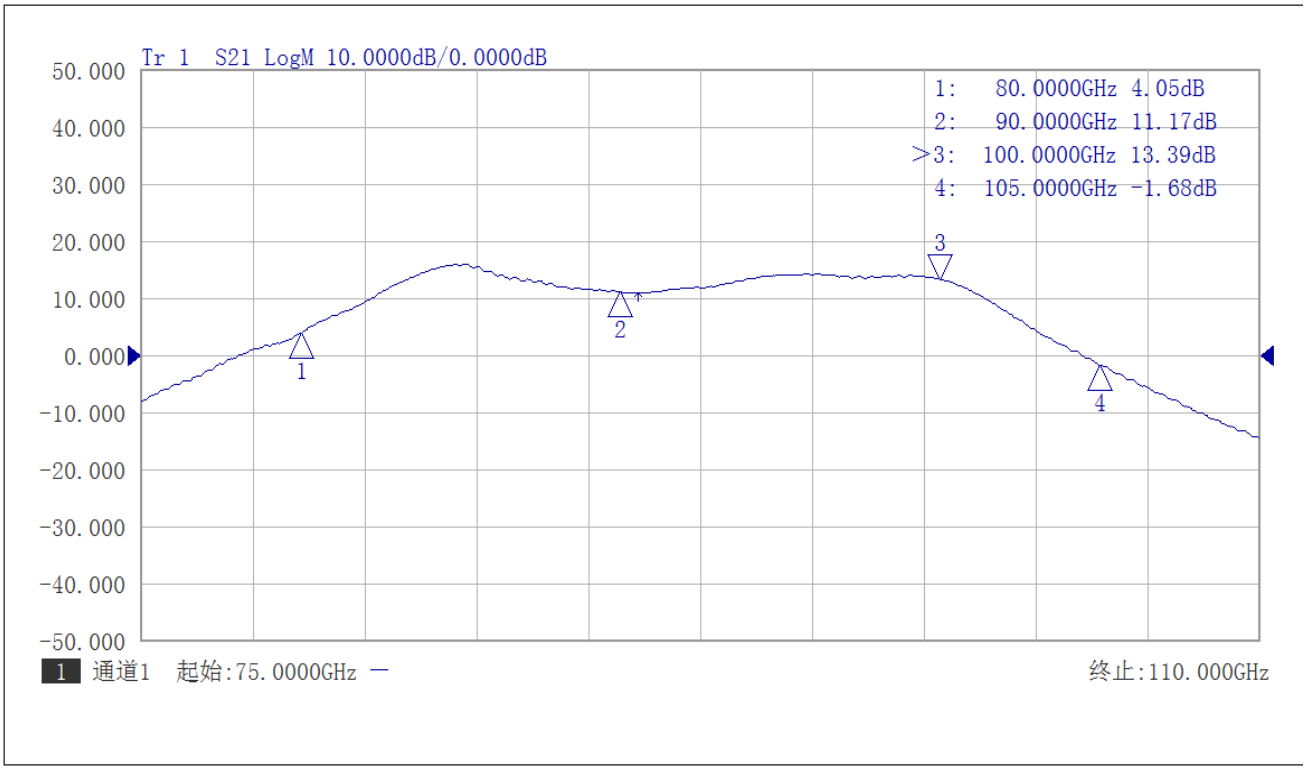
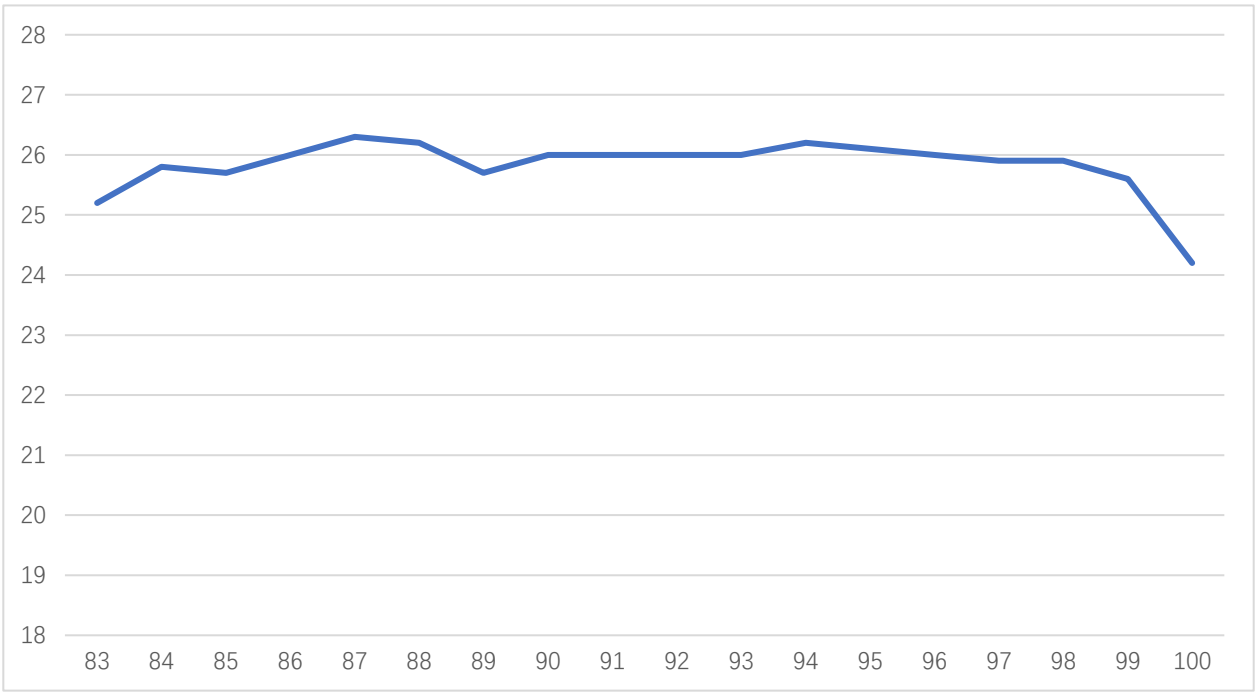
TEST DATA(25C)



Small Signal Gain



Psat vs Frequency at Pin=+18dBm

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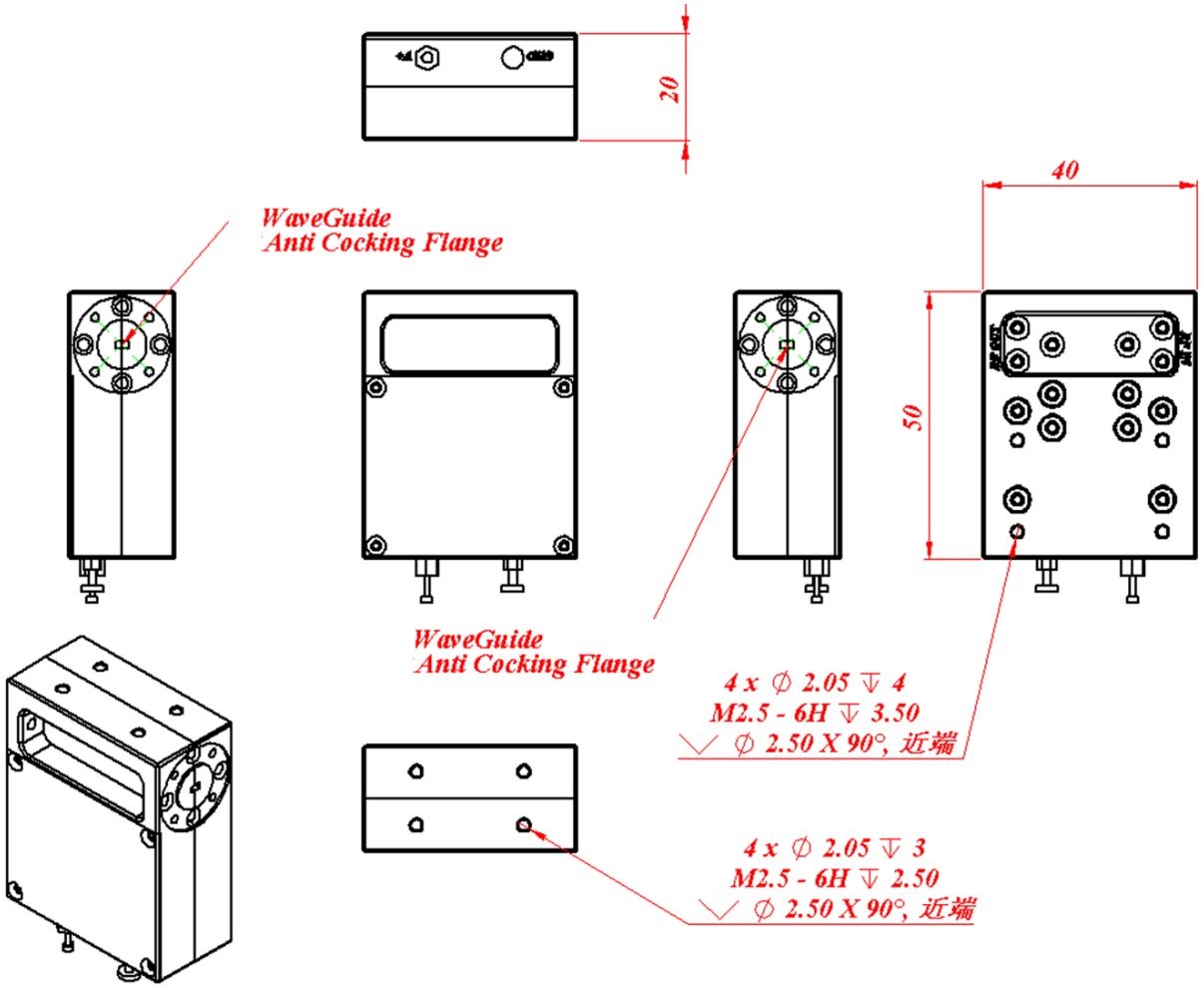
Dimension without heatsink:(unit in mm)



Heatsink and Fan required during operation

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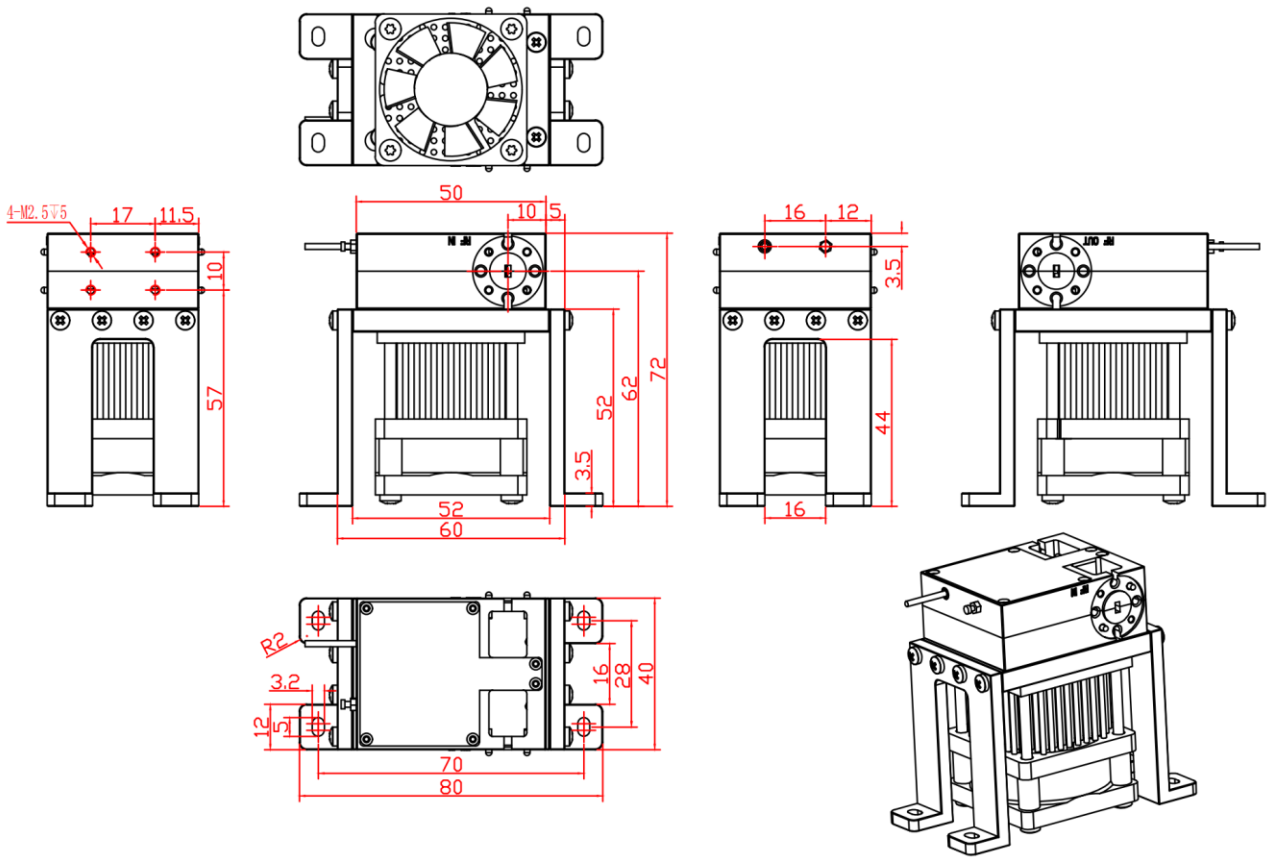
Dimension with heatsink and Fan: (unit in mm)



AT Microwave provides heatsink and Fan in default.
Customer can remove the heatsink and Fan if using own heatsink system.