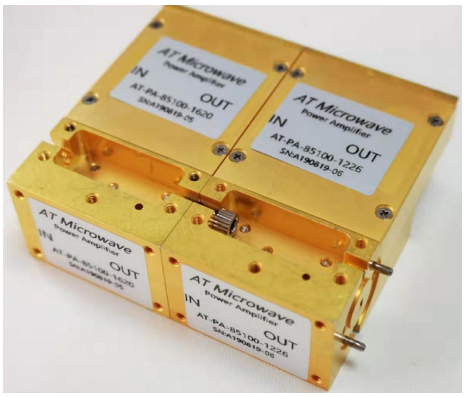
AT-PA-9098-2727

90-98GHz Power Amplifier, Psat=+27dBm

W Band Power Amplifier, High Gain , Psat +27dBm



Product Overview

AT-PA-9098-2727 is 25dB high gain power amplifier with +27dBm output power in the frequency of 92-96GHz. The DC power requirement is +6V/2.3A. The module is with a standard WR-10 waveguide. GaAs amplifier chips are used inside.

The power amplifier has high gain, high linearity, low input/output return loss and flat gain response.
It can also be used from 85-100GHz with some variation of performance.
More information, please visit www.atmicrowave.com

Advantages

- ✓ Frequency: 90-98GHz
- ✓ Psat:+27dBm
- ✓ Small signal gain: 27dB
- ✓ 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		90-98GHz	
Gain（Small Signal Gain）	25	27dB	
Output P1（dBm）	23	+25dBm	
Output Saturated Power（dBm）	25	+27dBm	
Supply Voltage（V）		+6V	+7V
Quiescent Current/A (No RF)		2.3A	
Psat Current/A		3.2A	
Input Return Loss		-8dB	
Output Return Loss		-10dB	
Dimension(LxWxH)		57x66x22	
Material		Brass	

Note: Hear Sink is required.

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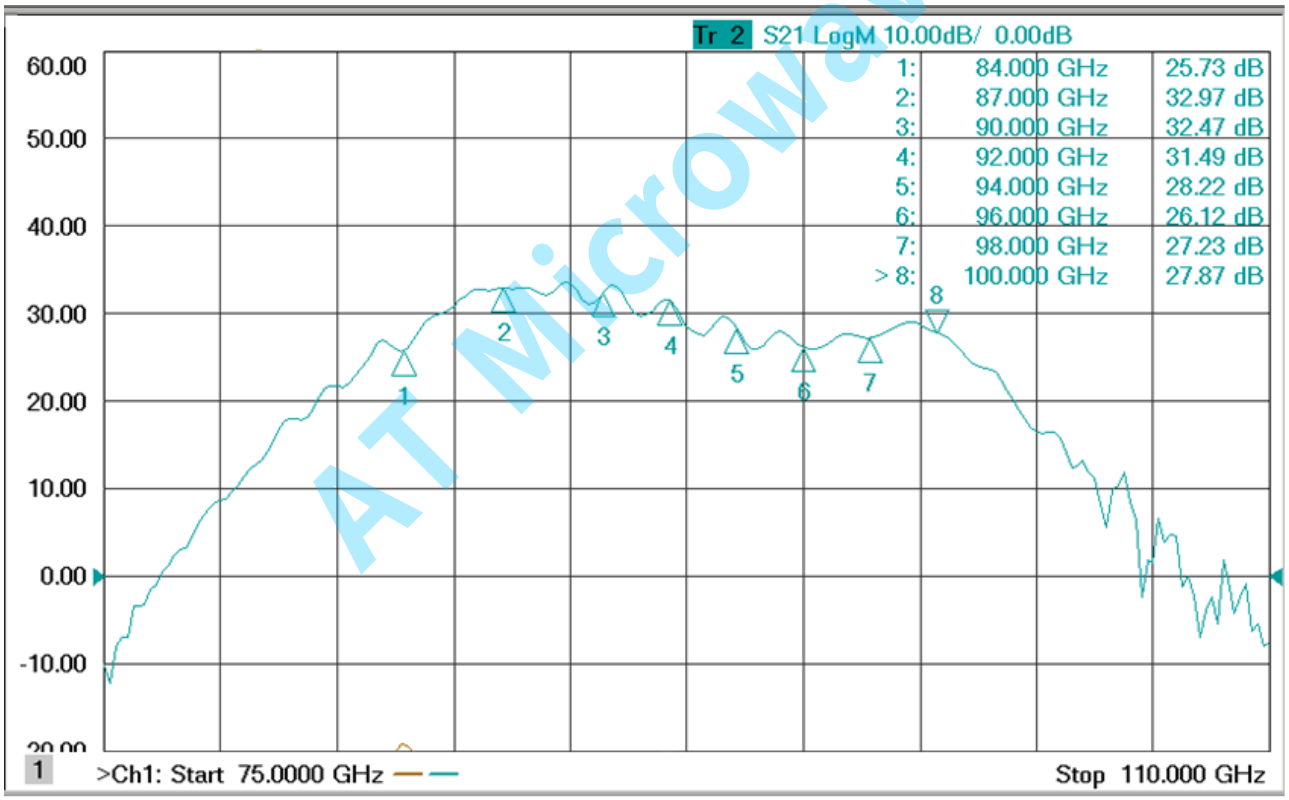
Absolute Maximum Ratings Table

Parameter	Value
Drain Supply	+7V
RF Input Power	+6dBm
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.

Test Data



Small Signal Gain

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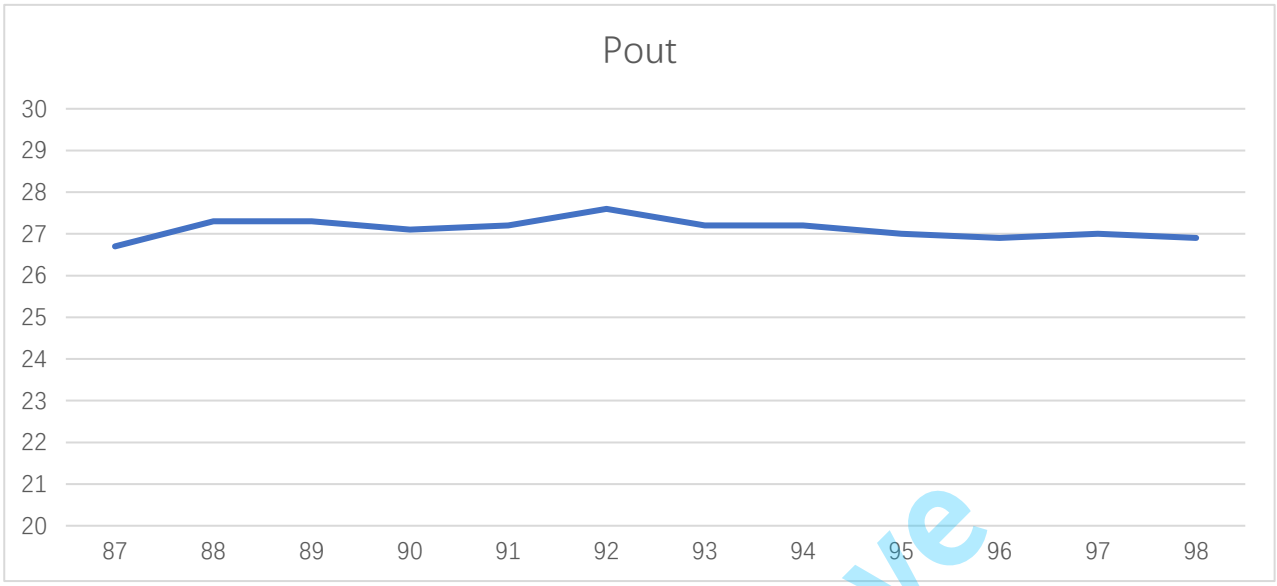
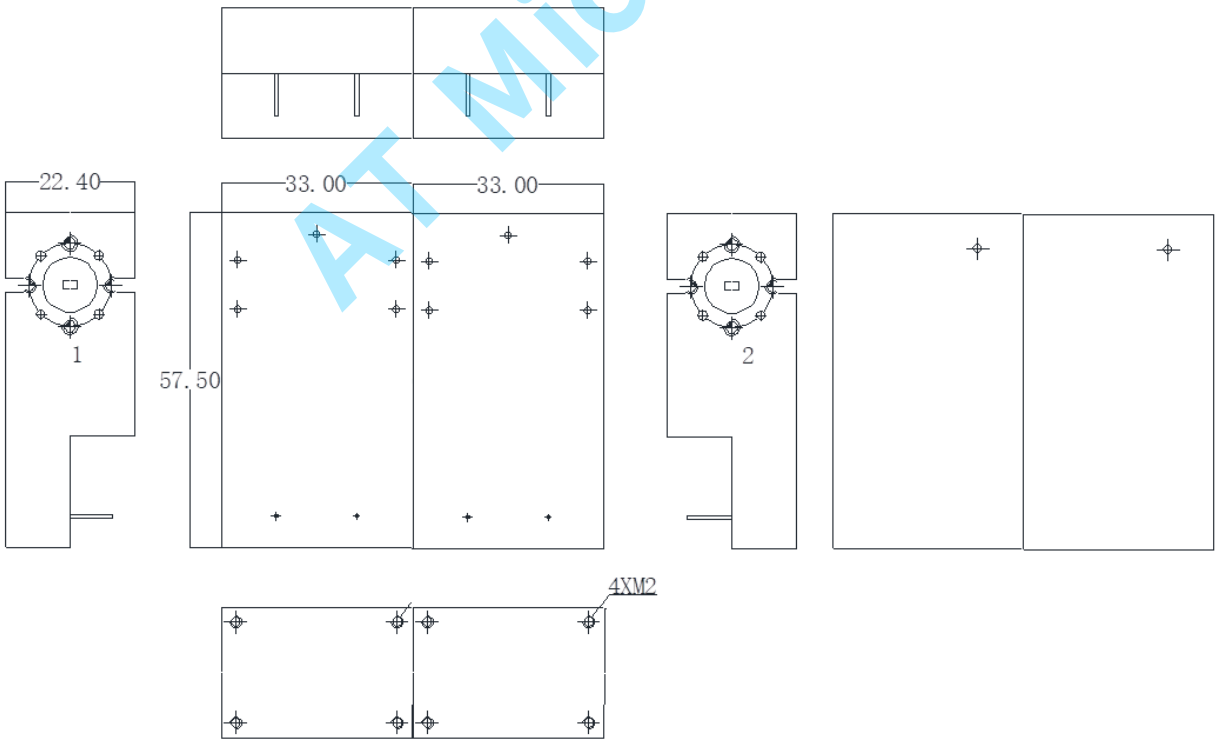


Pout vs Frequency, Pin=+6dBm

Dimension: (unit in mm)



Notes:

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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.