AT-PA-7894-2726

78-94GHz Power Amplifier, Psat=+26dBm

W Band Power Amplifier, High Gain , Psat +26dBm

Product Overview

AT-PA-7894-2726 is 27dB high gain power amplifier with +26dBm output power in the frequency of 78-94GHz. The DC power requirement is +5V/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.

More information, please visit www.atmicrowave.com

Advantages

- ✓ Frequency: 78-94GHz
- ✓ Psat:+26dBm
- ✓ 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		78-94GHz	
Gain（Small Signal Gain）	25	27dB	
Output P1	+24dBm	+25dBm	
Output Saturated Power	+25	+26dBm	
Supply Voltage（V）		+5V	+6V
Quiescent Current/A (No RF)		2.3A	
Psat Current/A		2.7A	3.2A
Input Return Loss		-5dB	
Output Return Loss		-5dB	
Spec Temp		25C	

Note: Heat Sink is 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)	270g
Size:	See outline

Absolute Maximum Ratings Table

Parameter	Value
Drain Supply	+7V
RF Input Power	+10dBm
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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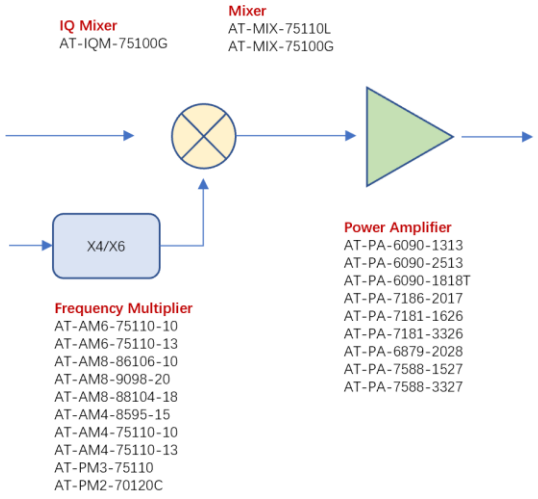
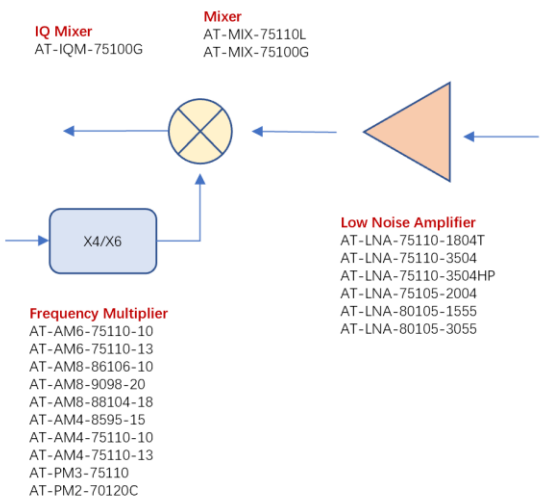
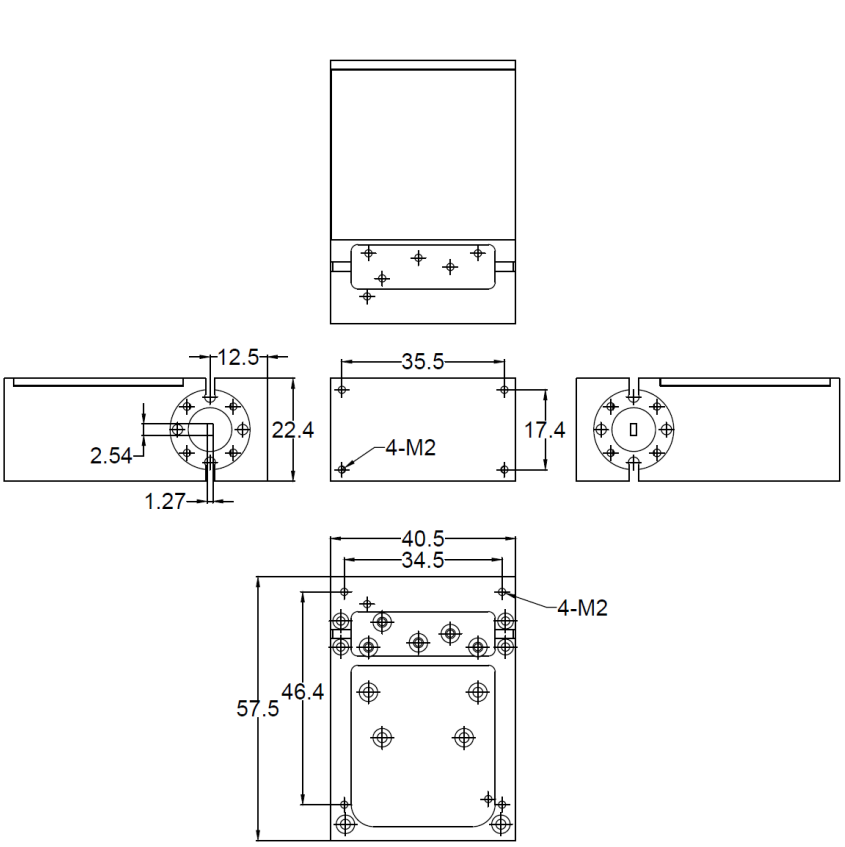
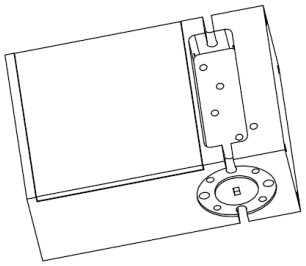
W BAND 75-110GHZ

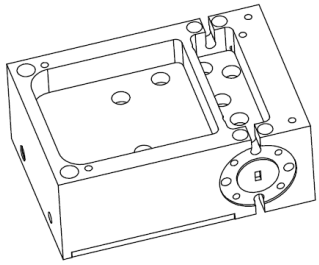




Dimension: (unit in mm)







Heat Sink Required During Operation

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