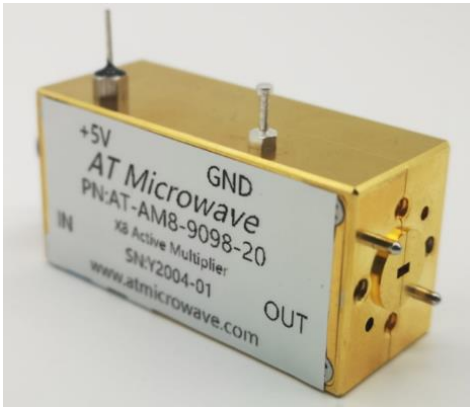
AT-AM8-9098-20

x8 Active Multiplier, Pout=+20dBm

High Power x8 Active Multiplier, +20dBm

2020-10-12



Product Overview

AT-AM8-9098-20 is a W band FMCW transmitter subsystem. The input is 11.25-12.5GHz, with x8 multiplier, and the output frequency is 90-98GHz. With a high power amplifier inside, the output power is more than +20dBm.

The input port is SMA female, and the output is a WR-10 waveguide. Other port configurations are available under different requirement. The multiplier can be used from 85-100GHz with some change of the performance.

More information, please visit www.atmicrowave.com

Feature

- ✓ Frequency: 90-98GHz
- ✓ Pout +20dBm Typ
- ✓ Input: 11.25-12.5GHz, 0dBm
- ✓ 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
Input Frequency		11.25-12.5GHz	
Multiplier Factor		X8	
Input Power	0	+3dBm	+8
Output Frequency		90-98GHz	100GHz
Output Power	+17	+20dBm	
Harmonic Suppression		-30dBc	
Drain Voltage		+5V/0.9A	1.1A
Specification Temp		25C	

Shanghai AT Microwave Limited

Tel:021-6229 1233 Email:sales@atmicrowave.com www.atmicrowave.com

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Mechanical Information

Item	Description
Input Port	SMA Female
Output Port	WR-10
Case Material	Copper
Finish	Gold Plated
Weight (Without Heatsink)	190g
Size:	50X25X20 mm

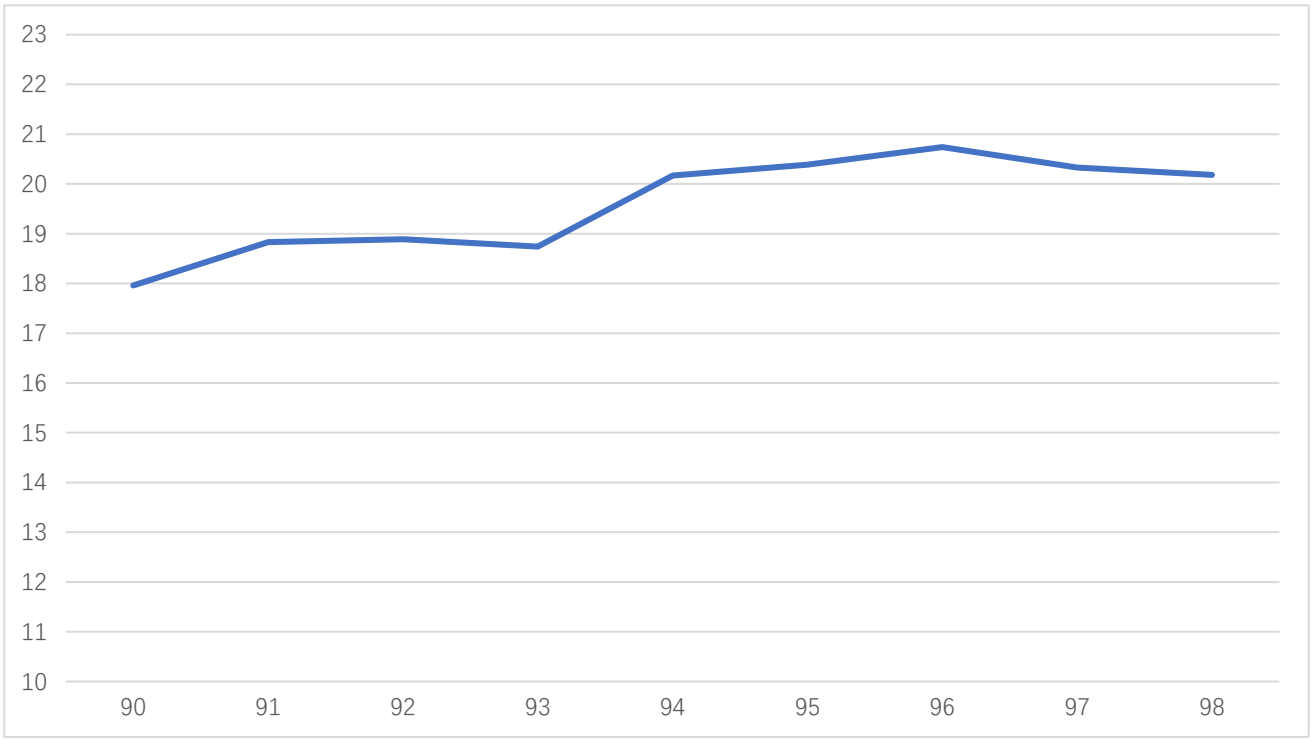
Absolute Maximum Ratings Table

Parameter	**Value**
Drain Supply	+9V
RF Input Power	+15dBm
Operating Temperature	0 to +50C
Storage Temperature	-65 to +150C

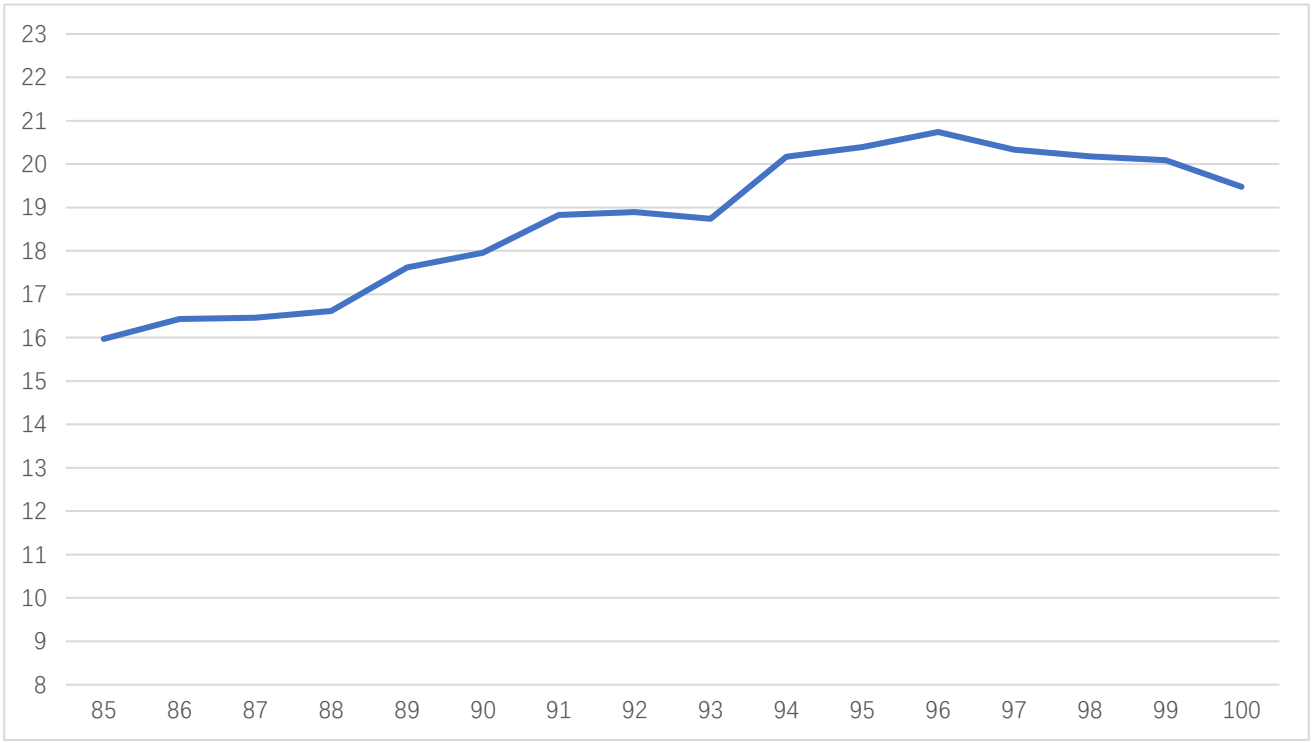
Notes:

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.

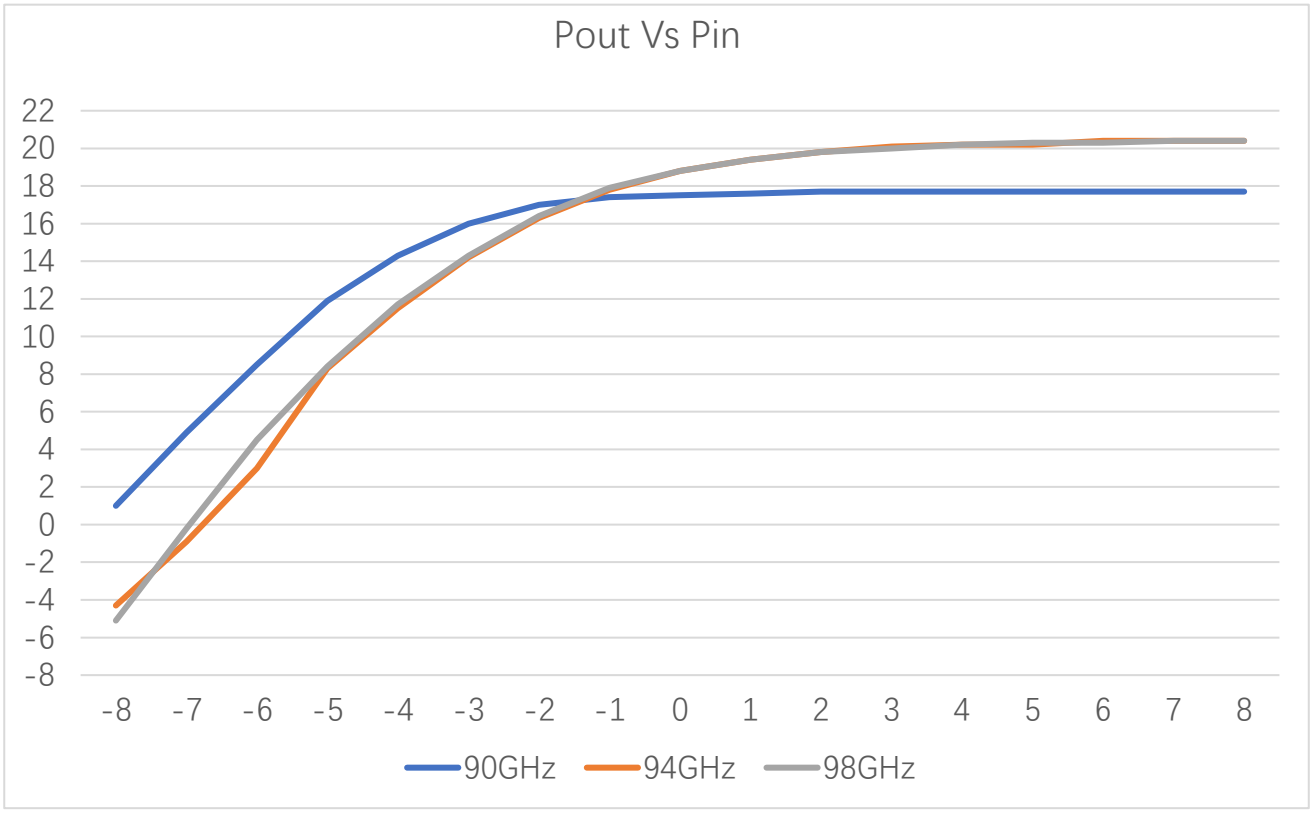
Pout vs. Frequency (+25C, +3dBm driver)



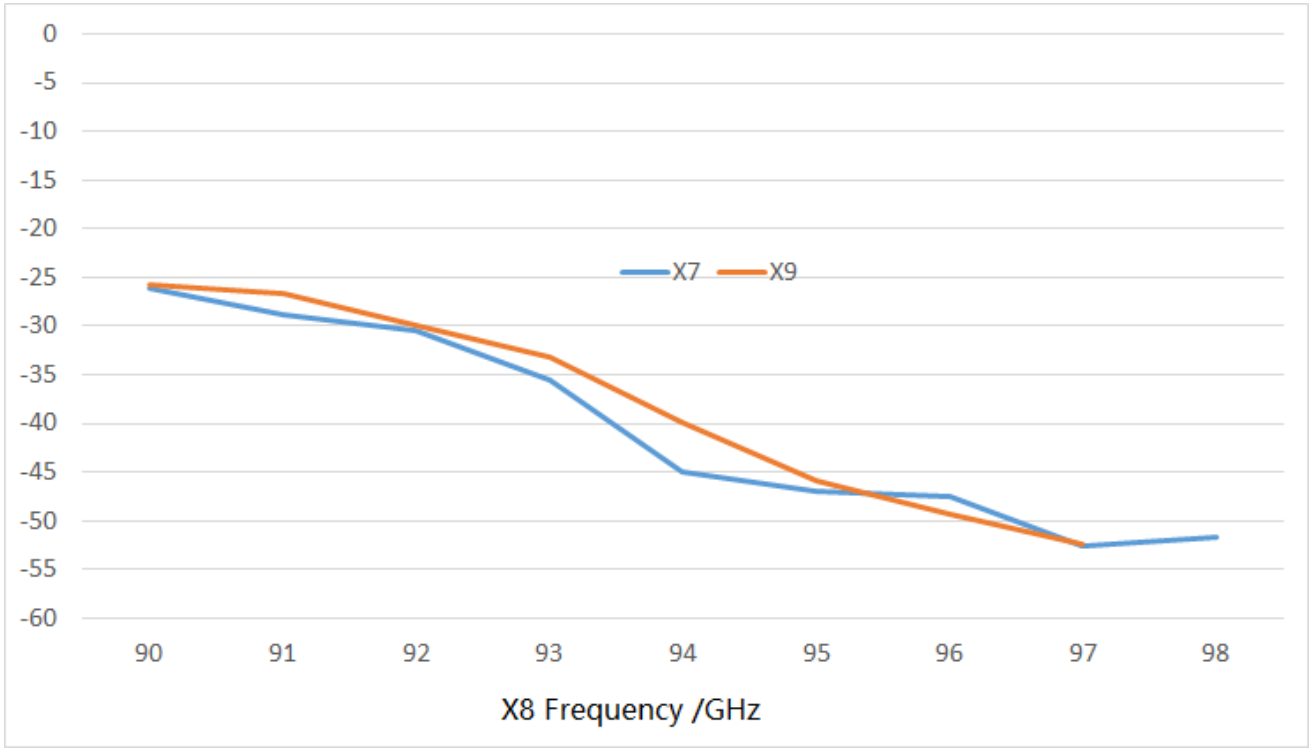
Pout vs Frequency 90-98GHz



Pout vs Frequency 85-100GHz



Pout vs Pin at 90/94/98GHz



X7/X9 Harmonics VS X8 Pout

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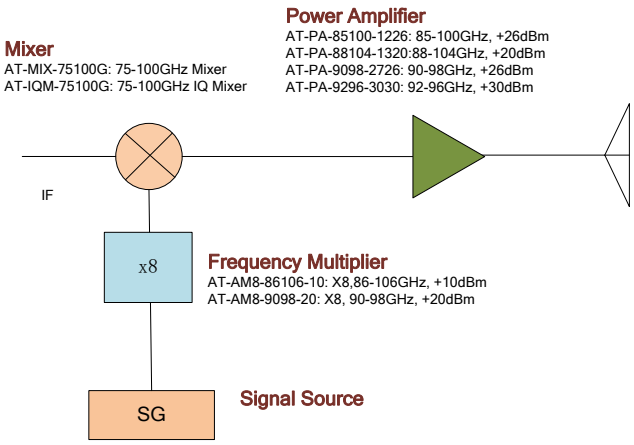
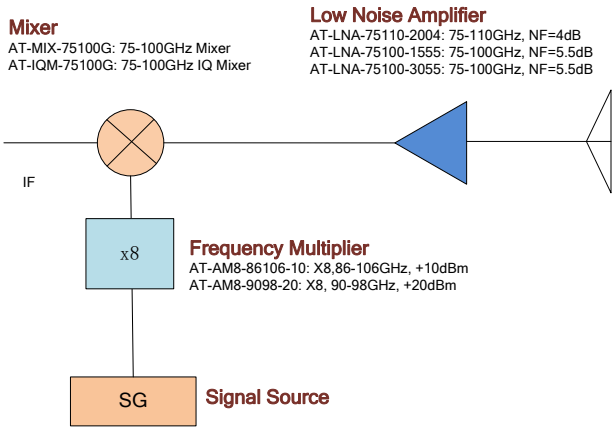
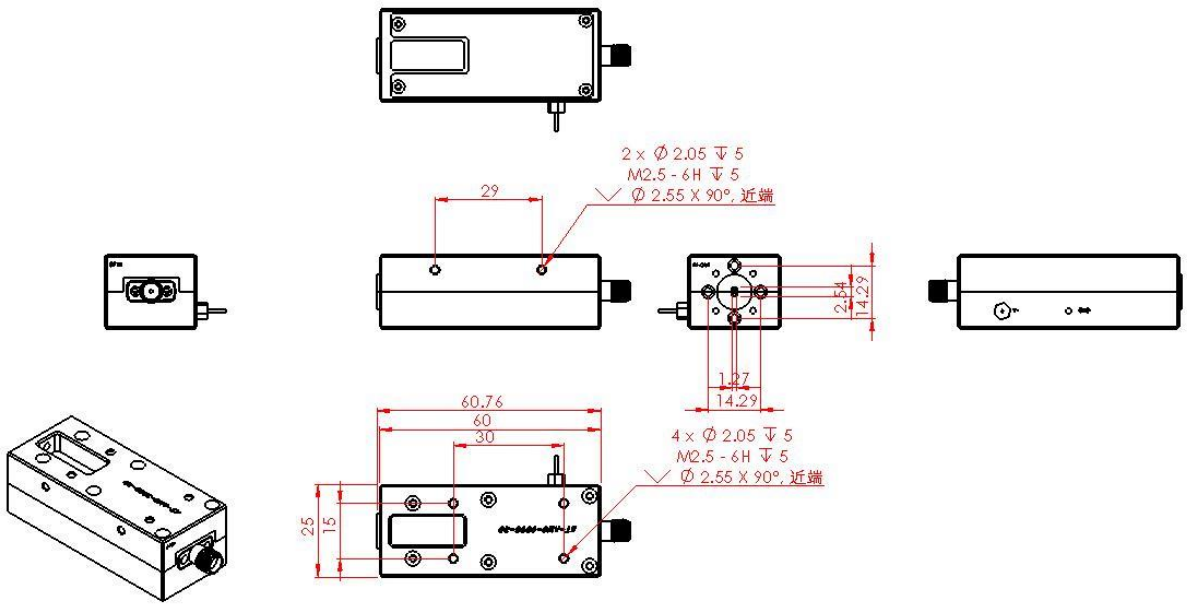
W Band Solution:





Dimension



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