



AT-AM8-88104-20

Active Multiplier x8, 88-104GHz Pout=+20dBm

High Power X8 W Band Active Multiplier

2020-09-22



Product Overview

AT-AM8-88104-20 is a W band, active x8 frequency multiplier. The multiplier has an input frequency of 11 to 13GHz with a typical output +20dBm from 88-104GHz.

The input port is SMA female, and the output is a WR-10 waveguide. Other port configurations are available under different requirement.

More information, please visit www.atmicrowave.com

Advantages

- ✓ Frequency: 88-104GHz
- ✓ Pout: +20dBm typical
- ✓ Input Frequency: 11-13GHz
- ✓ Low Input Power: 0dBm
- ✓ Low Harmonics

Application

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

Key Features

Parameter	Min	Typical	Max
Input Frequency	11GHz		13Hz
Input Power	-5dBm	0dBm	+5dBm
Multiplier Factor		X8	
Output Frequency	88GHz		104GHz
Output Power	+16	+20dBm	
Harmonica Suppression(90-98GHz)		-15dBc	
Drain Voltage		+5V	+8V
Current Quiescent/A		0.45A	
Spec Temp		25C	

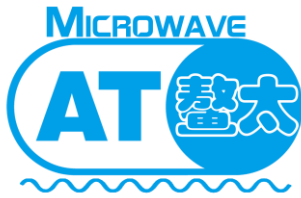
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www.atmicrowave.com





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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:	60x25x20 mm

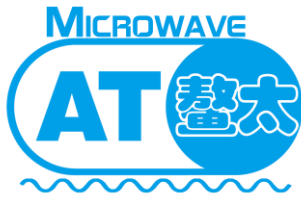
Absolute Maximum Ratings Table

Parameter	Value
Drain Supply	+9V
RF Input Power	+15dBm
Operating Temperature	0 to 50 C
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.



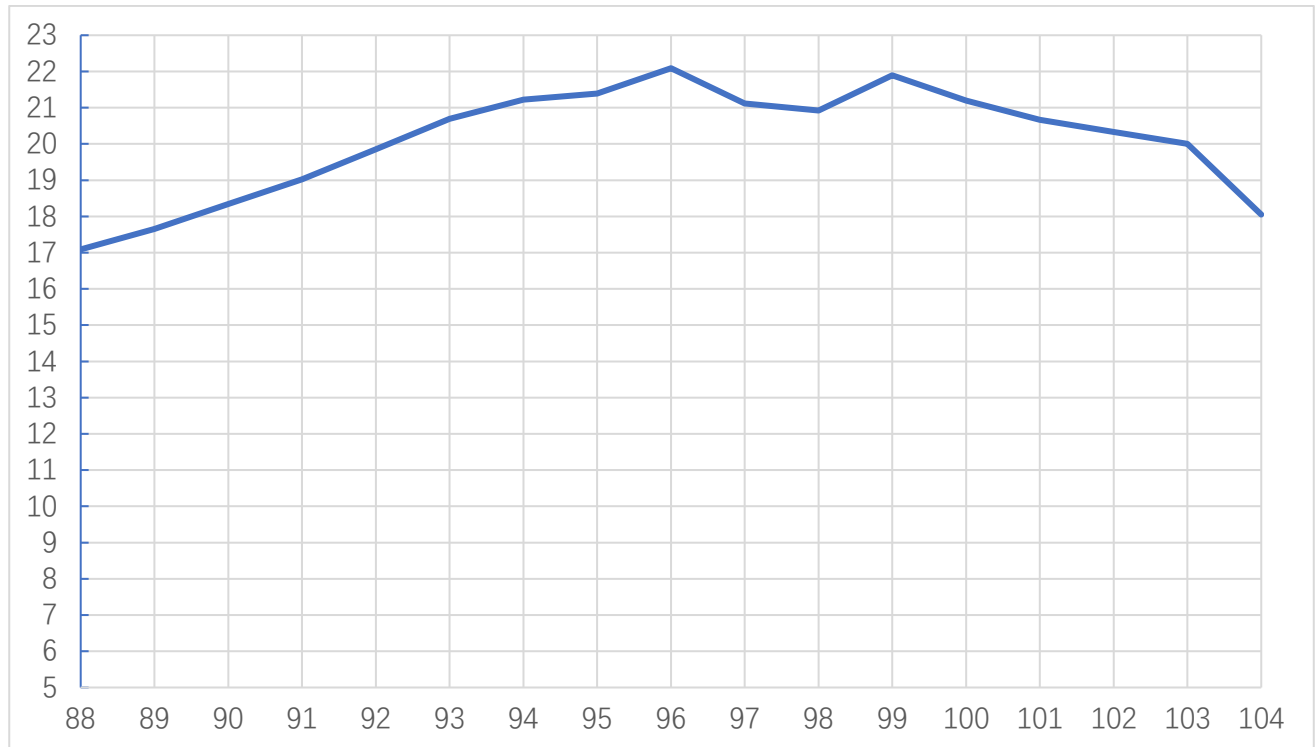


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Test Data:

Pin=+0dBm, 25C

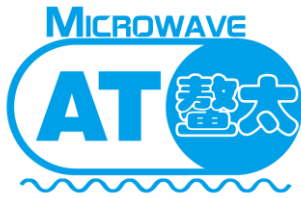


Pout vs Frequency



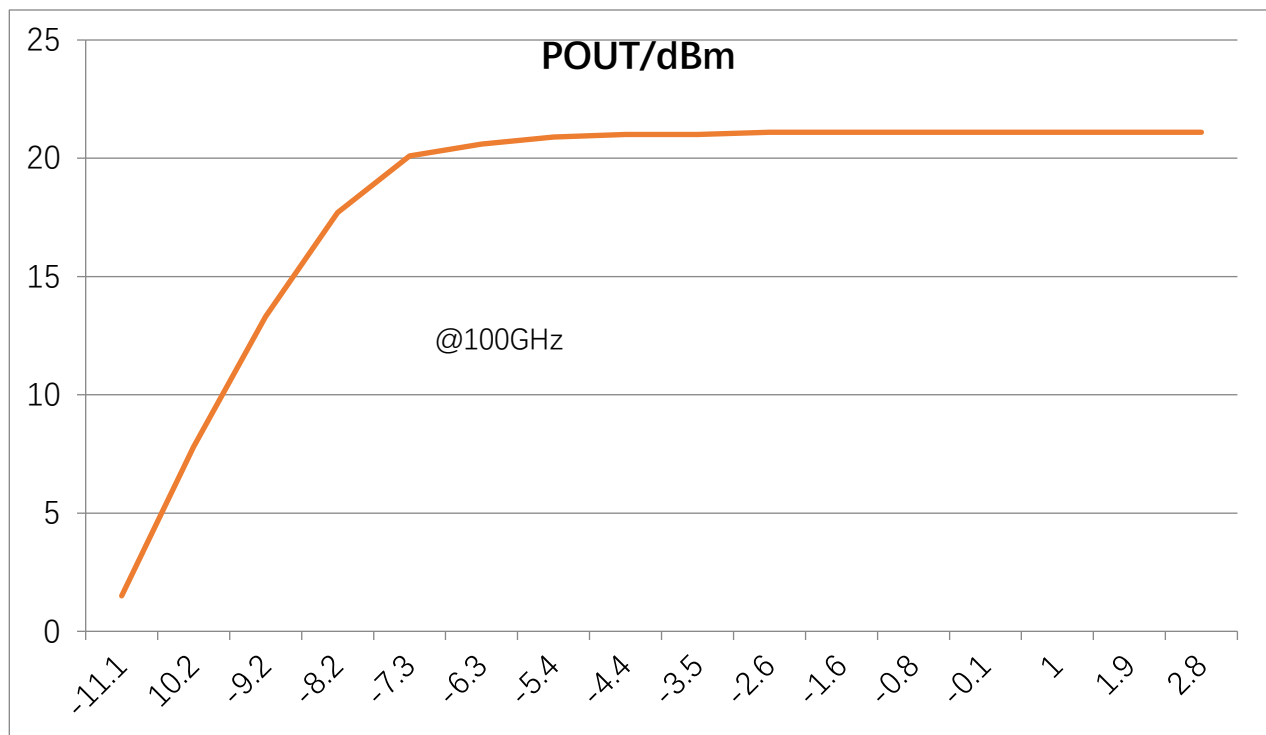
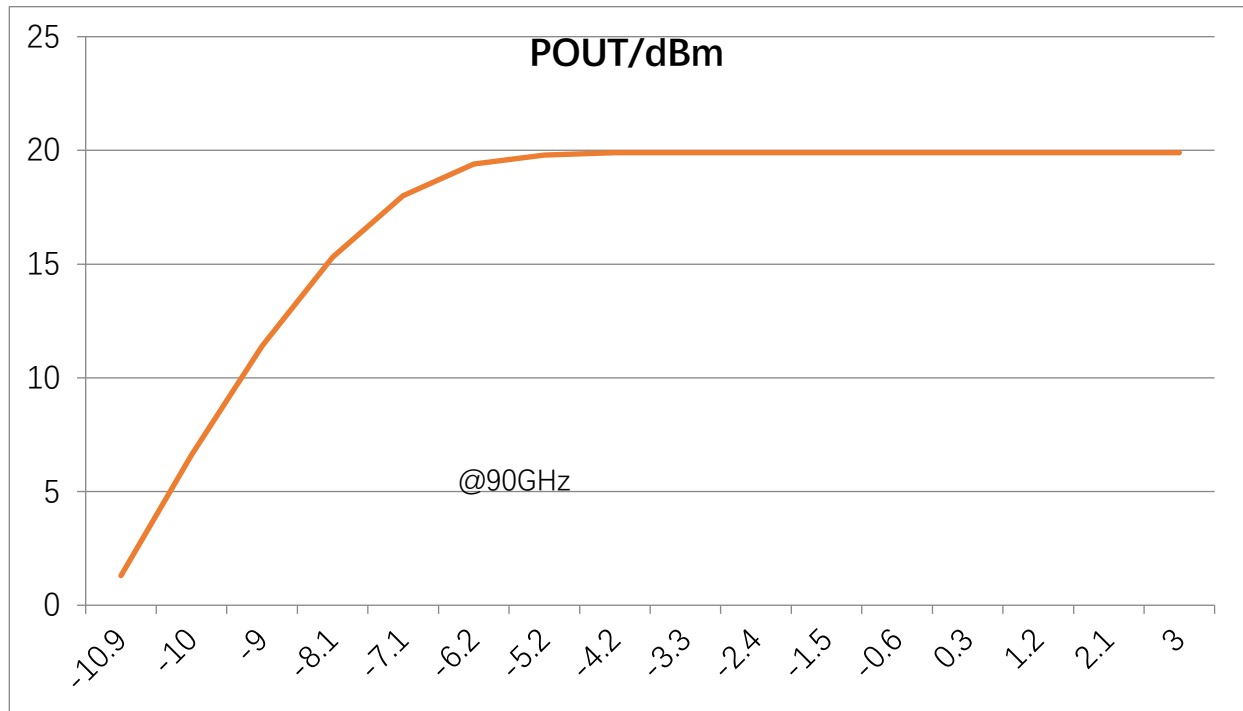
X7 X9 Suppression vs X8 Pout





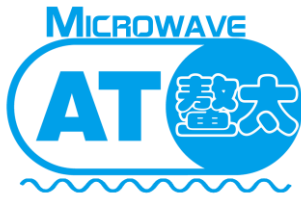
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Pout vs Pin at 90/100GHz

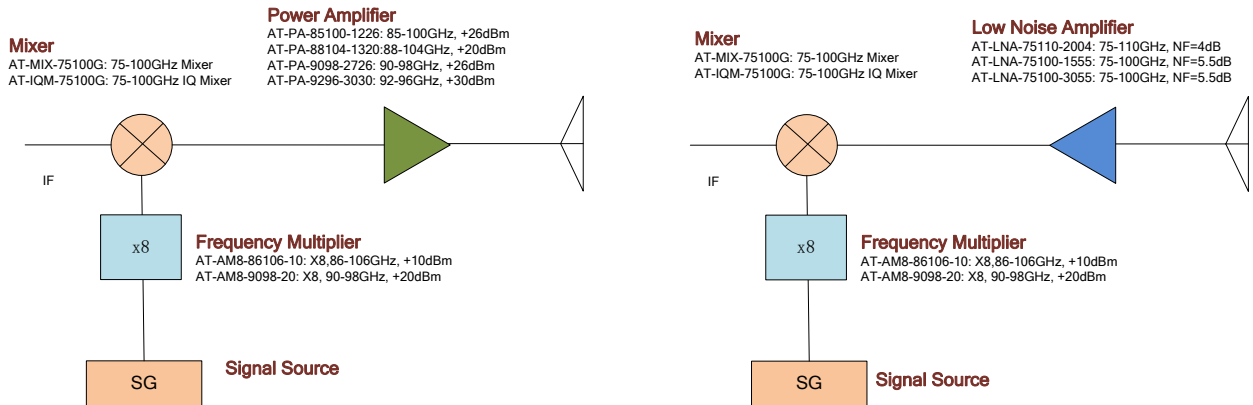




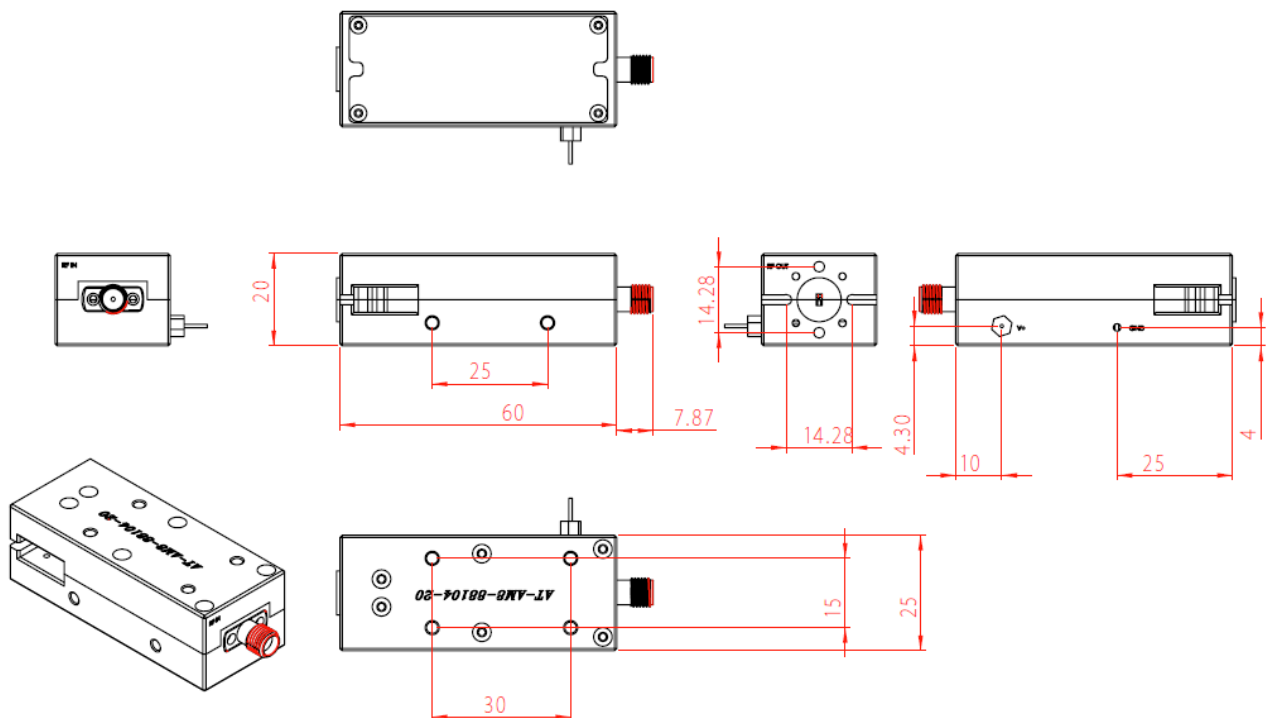
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W Band Solution:



Dimension: (Unit mm)



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