

X8 W Band Active Multiplier

Product Overview



AT-AM8-86106-10 is a W band, active x8 frequency multiplier. The multiplier has an input frequency of 10.7 to 13.3GHz with a typical output +10dBm from 86 to 106GHz.

The integrated input and output buffers deliver high output power at a low drive level. The multiplier also has a typical harmonic suppression of -20dBc. The input port is SMA female, and the output is a WR-10 waveguide with a standard UG-387 flange.

More information, please visit www.atmicrowave.com

Advantages

- ✓ Frequency: 86-106GHz
- ✓ Pout: +10dBm typical
- ✓ Input: 10.7-13.3GHz, 0dBm
- ✓ Single Supply: +5V, LDO inside

Application

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

Key Features

Parameter	Min	Typical	Max
Input Frequency	10.7GHz		13.3GHz
Input Power	0	+3dBm	+8
Output Frequency	86GHz		106GHz
Output Power	+8dBm	+10dBm	+12dBm
Harmonica Suppression		-20dBc	
Drain Voltage		+5V	+8V
Current		160mA	
Spec Temp		25C	





AT-AM8-86106-10

Active Multiplier x8, 86-106GHz Pout=+10dBm

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

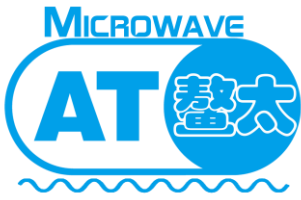
Absolute Maximum Ratings Table

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.

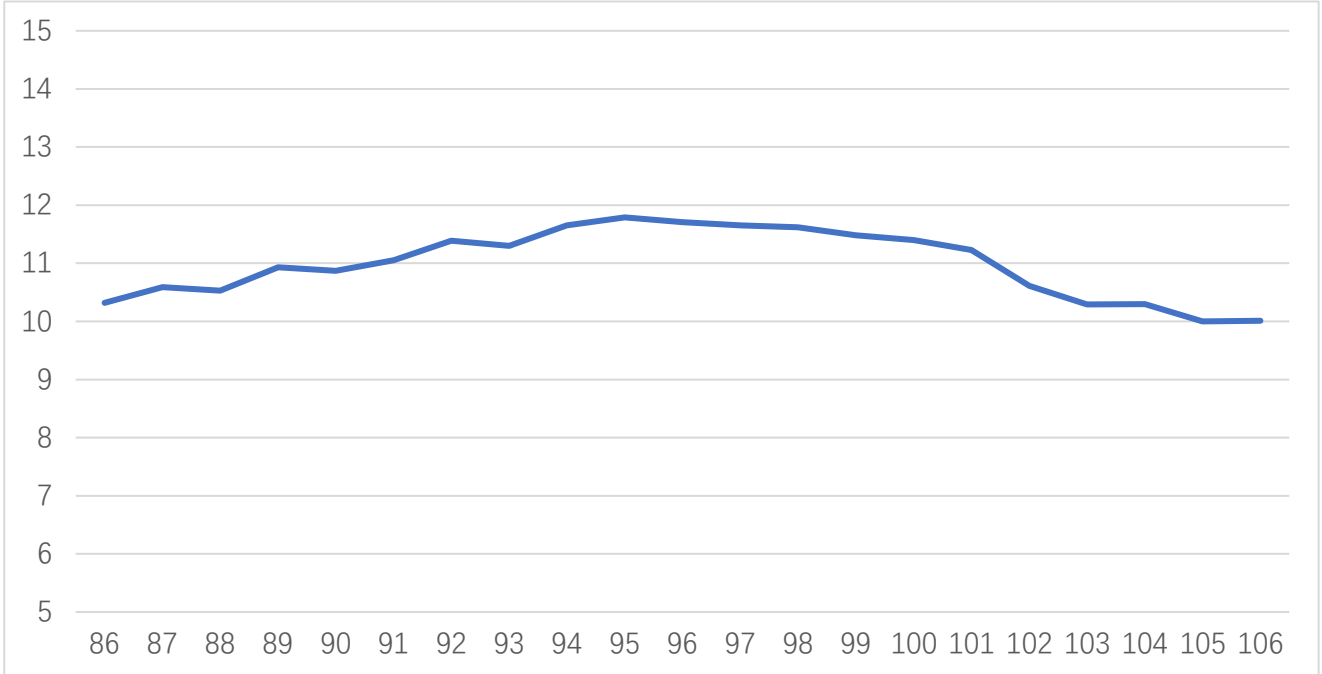




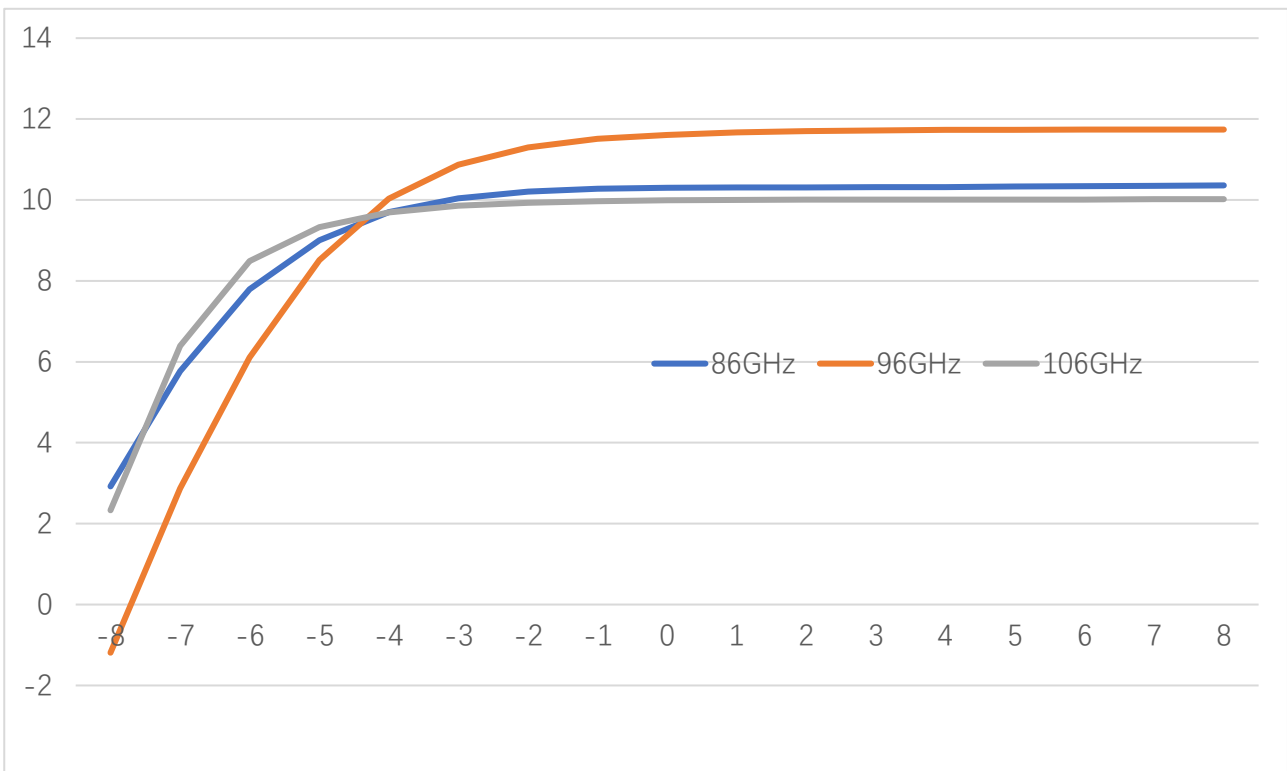
AT-AM8-86106-10

Active Multiplier x8, 86-106GHz Pout=+10dBm

Test Data

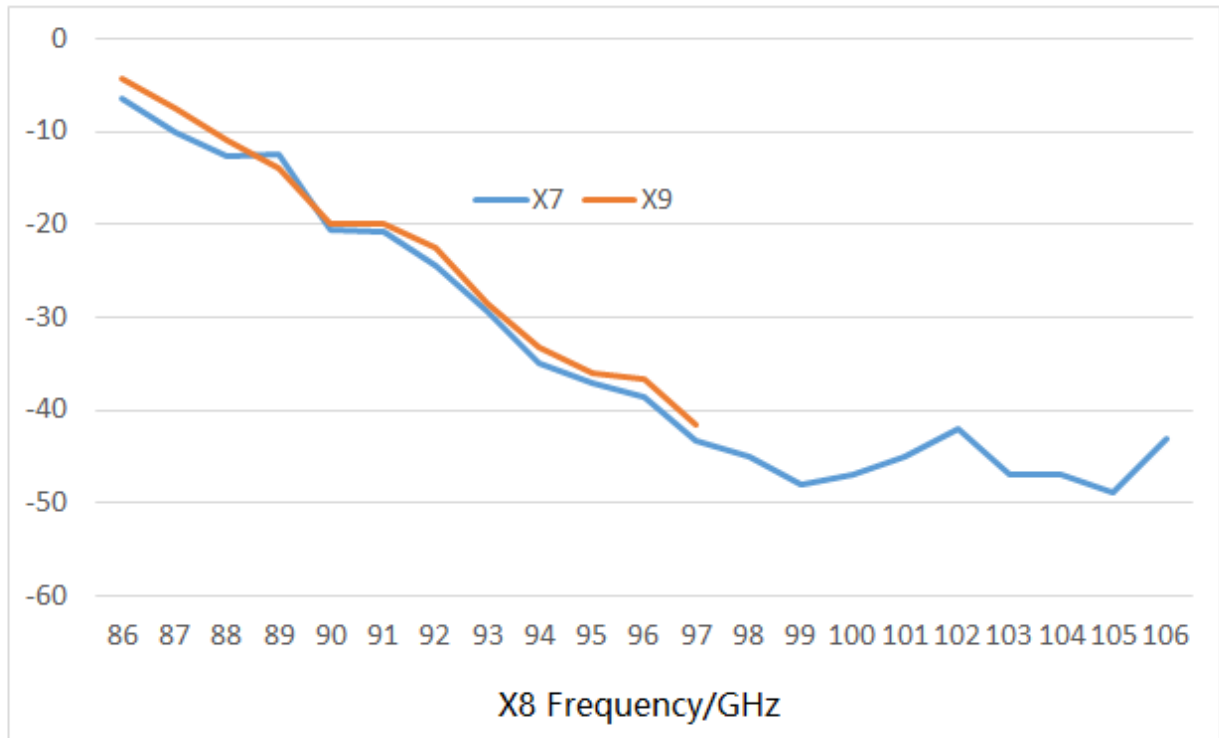


Pout vs. Frequency Pin=+3dBm



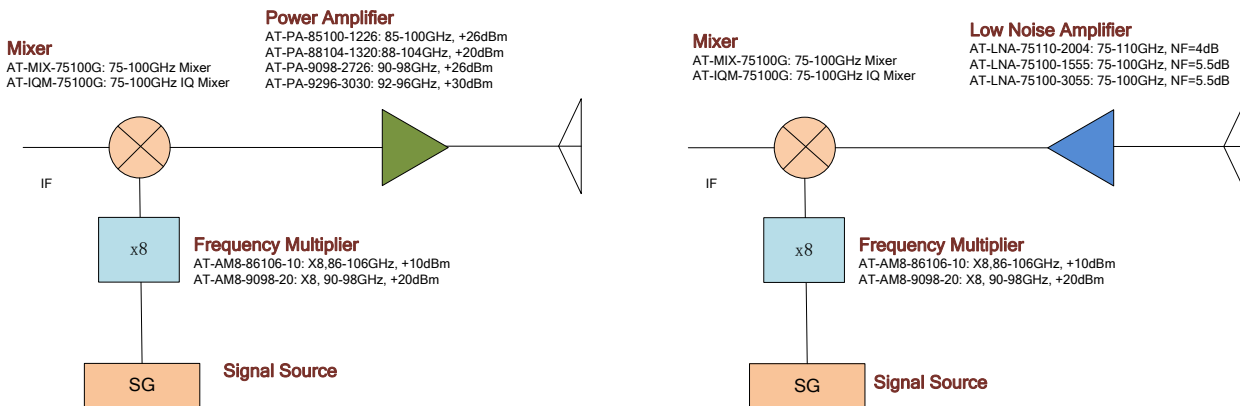
Pout vs. Pin at 86/96/106GHz





X7/X9 Harmonics vs X8 Pout

W Band Solution:



Dimension:

