



AT-AM4-8595-15

X4 Active Multiplier, Pout=+15dBm

W Band x4 Active Multiplier, 85-95GHz, +15dBm, WR-10

2021-5-30



Product Overview

AT-AM4-8595-15 is a W band FMCW transmitter subsystem. The input is 21.25-23.75GHz, with x4 multiplier, and the output frequency is 85-95GHz. With a high power amplifier inside, the output power is more than +15dBm.

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

Feature

- ✓ Frequency: 85-95GHz
- ✓ Pout +15dBm Typ
- ✓ Input: 21.25-23.75GHz,
- ✓ Input Power:+10dBm
- ✓ 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	21.25GHz		23.75GHz
Multiplier Factor		X4	
Input Power		+10dBm	
Output Frequency	85GHz		95GHz
Output Power		+15dBm	
Harmonic Suppression		-20dBc	
Drain Voltage		+5V	+8V
Current		0.9A	1.1A
Specification Temp		25C	





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Mechanical Information

Item	Description
Input Port	2.92mm Female
Output Port	WR-10
Case Material	Copper
Finish	Gold Plated
Weight	190g
Size:	See outline

Absolute Maximum Ratings Table

Parameter	Value
Drain Supply	+10V
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.



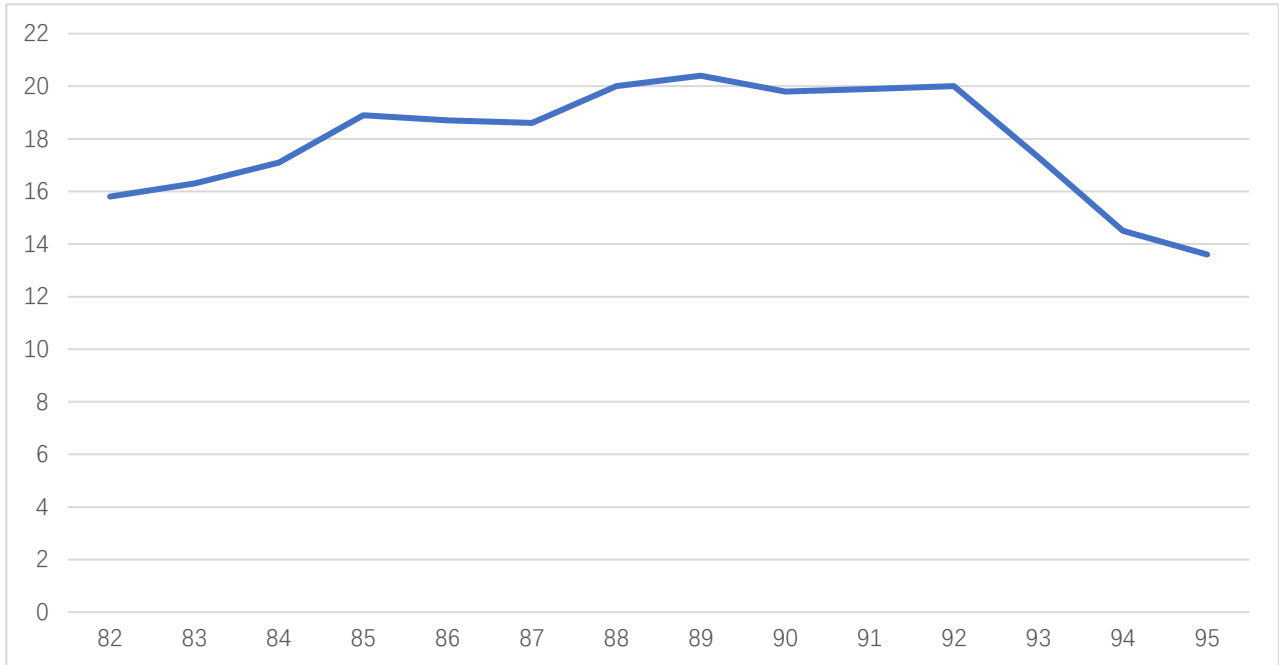


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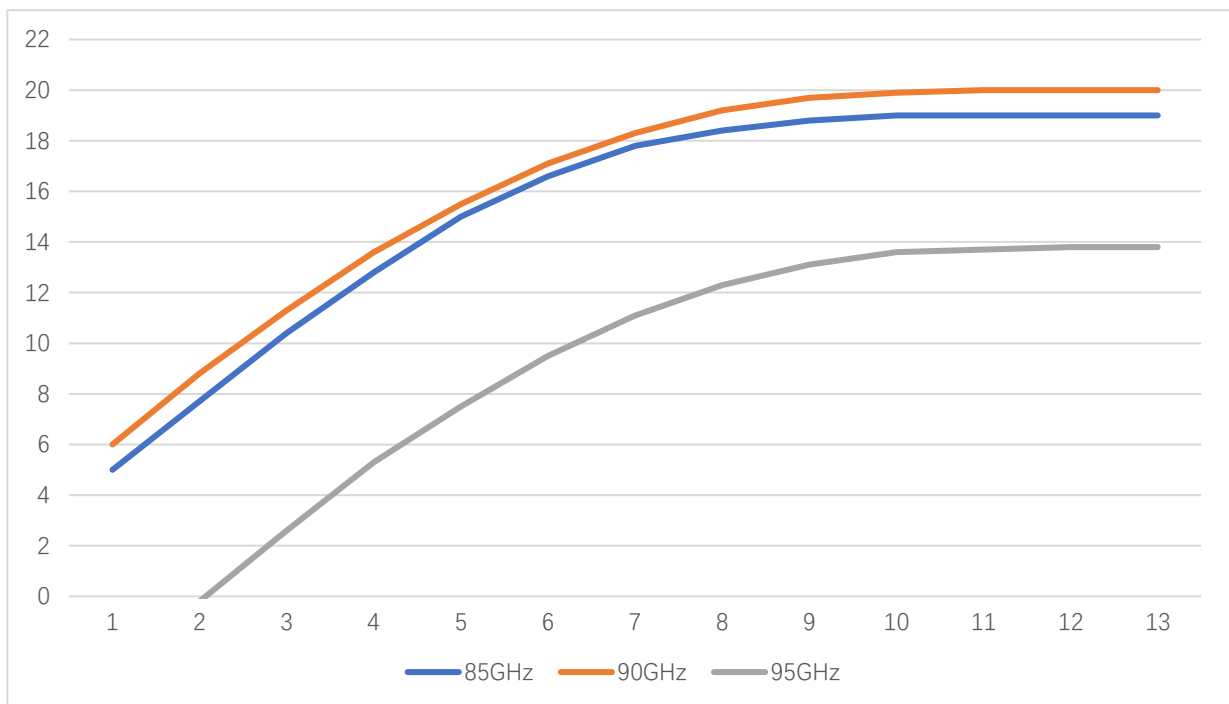
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Test Data (25C)

Please note that test curves will vary slightly from unit to unit.

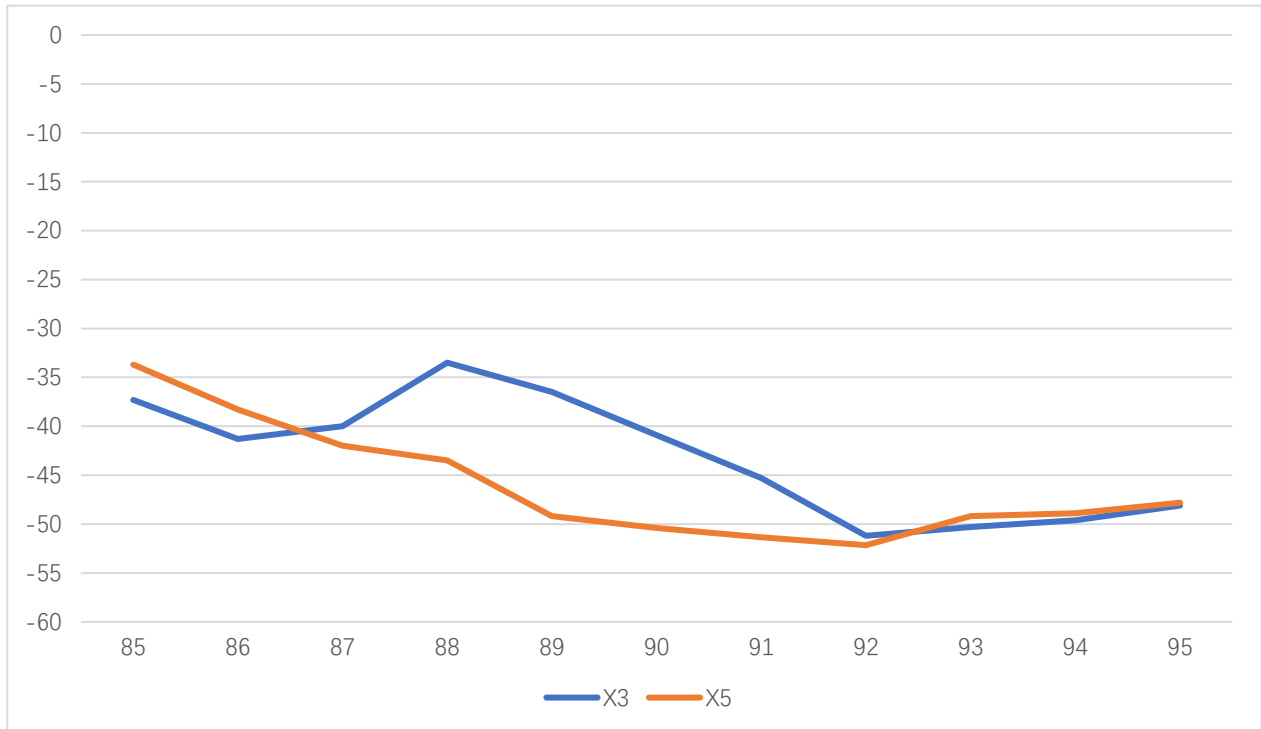


Pout vs Frequency



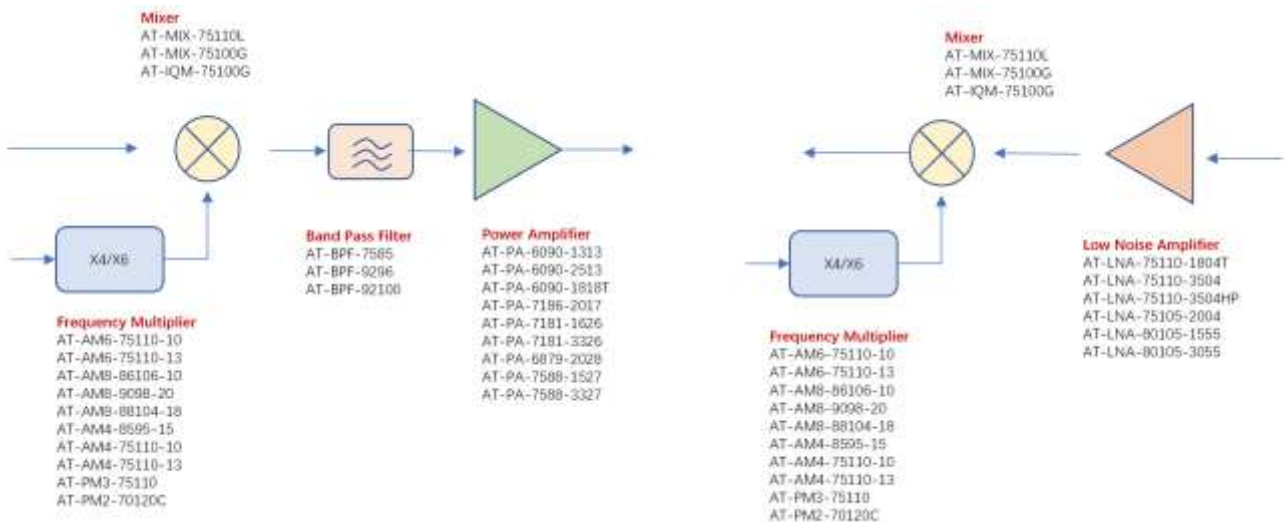
Pout vs Pin at 85/90/95GHz





X3/X5 Harmonics vs X4 Pout

W Band Solution:



Dimension(unit mm)

