

2021-3-30

Full E Band Active Multiplier



Description:

AT-AM6-6090-10 is a full E band, active x6 frequency multiplier. The multiplier has an input frequency of 10-15 GHz with a typical output +10dBm from 60-90GHz.

The integrated input and output buffers deliver high output power at a low drive level. The multiplier also has a typical harmonic suppression. The input port is SMA female, and the output is WR-12. Other port configurations are available under different requirement.

More information, please visit www.atmicrowave.com

Feature

- ✓ Frequency: 60-90GHz
- ✓ Pout: +10dBm typical
- ✓ Input: 10-15GHz
- ✓ Low Harmonics

Application

- ✓ E band Communication
- ✓ Test Equipment
- ✓ ROF (RF Over Fiber)
- ✓ Radar System

Electronical Specifications:

Parameter	Min	Typical	Max
Input Frequency	10GHz		15GHz
Input Power	+8	+10dBm	+15
Multiplier Factor		X6	
Output Frequency	60GHz		90GHz
Output Power		+10dBm	
Harmonic Suppression		-20dBc	
Drain Voltage		+5V	+8V
Idd/Current		350mA	0.5A
Spec Temp		25C	





AT-AM6-6090-10

Active Multiplier x6, 60-90GHz Pout=+10dBm

Mechanical Information

Item	Description
Input Port	SMA Female
Output Port	WR-12
Case Material	Copper
Finish	Gold Plated
Weight (Without Heatsink)	200g
Size:	60X30X20 mm

Absolute Maximum Ratings Table

Parameter	Value
Drain Supply	+9V
RF Input Power	+20dBm
Operating Temperature	0 to +50C
Storage Temperature	-65 to +150C

Notes:

- ✓ Datasheet may be changed according to update of MMIC, Raw materials , process, and so on.
- ✓ This data is only for reference, not for guaranteed specifications.
- ✓ Please contact AT Microwave team to make sure you have the most current data.
- ✓ Always pay attention to the temperature of the case, heatsink and fan are required if case temperature exceeds over 50C.

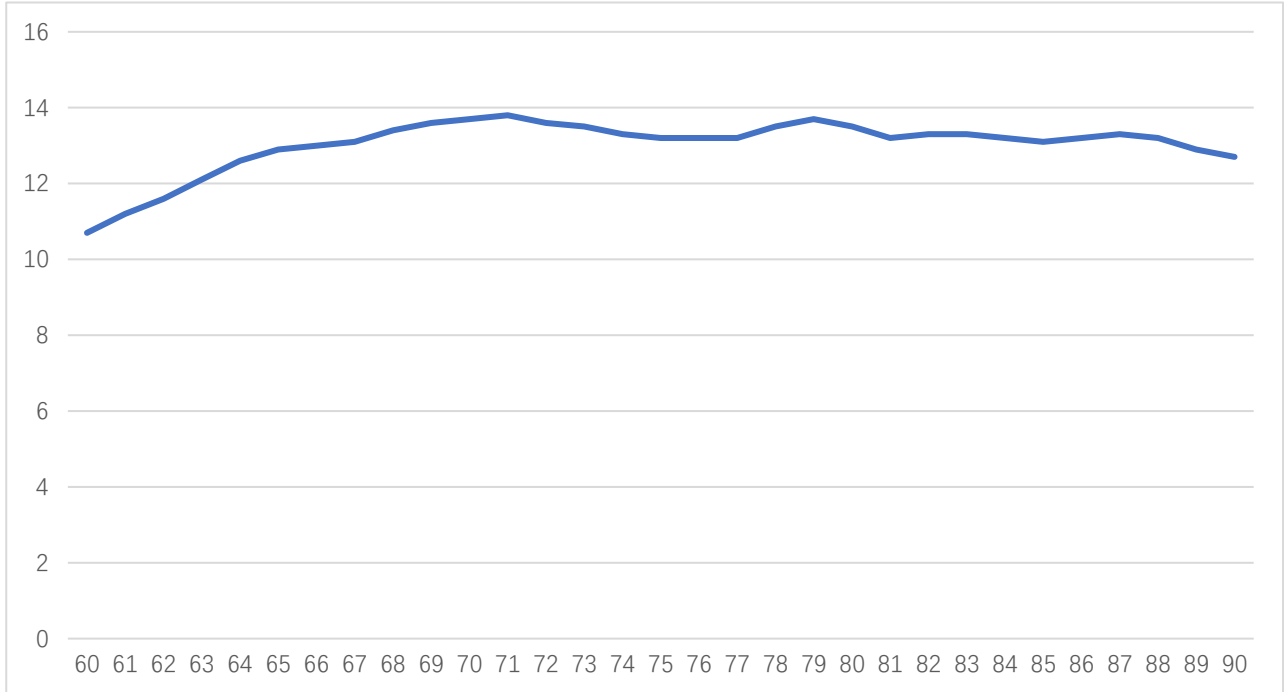




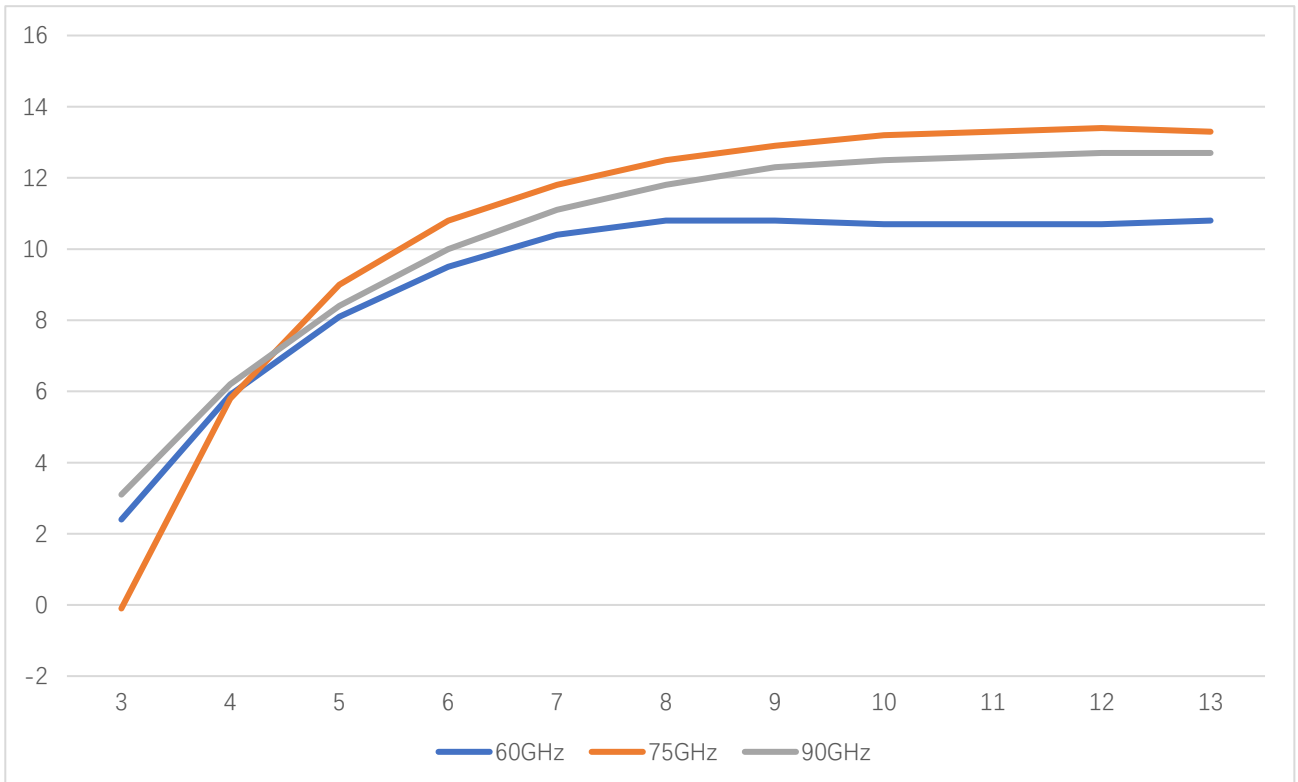
AT-AM6-6090-10

Active Multiplier x6, 60-90GHz Pout=+10dBm

Test Data:

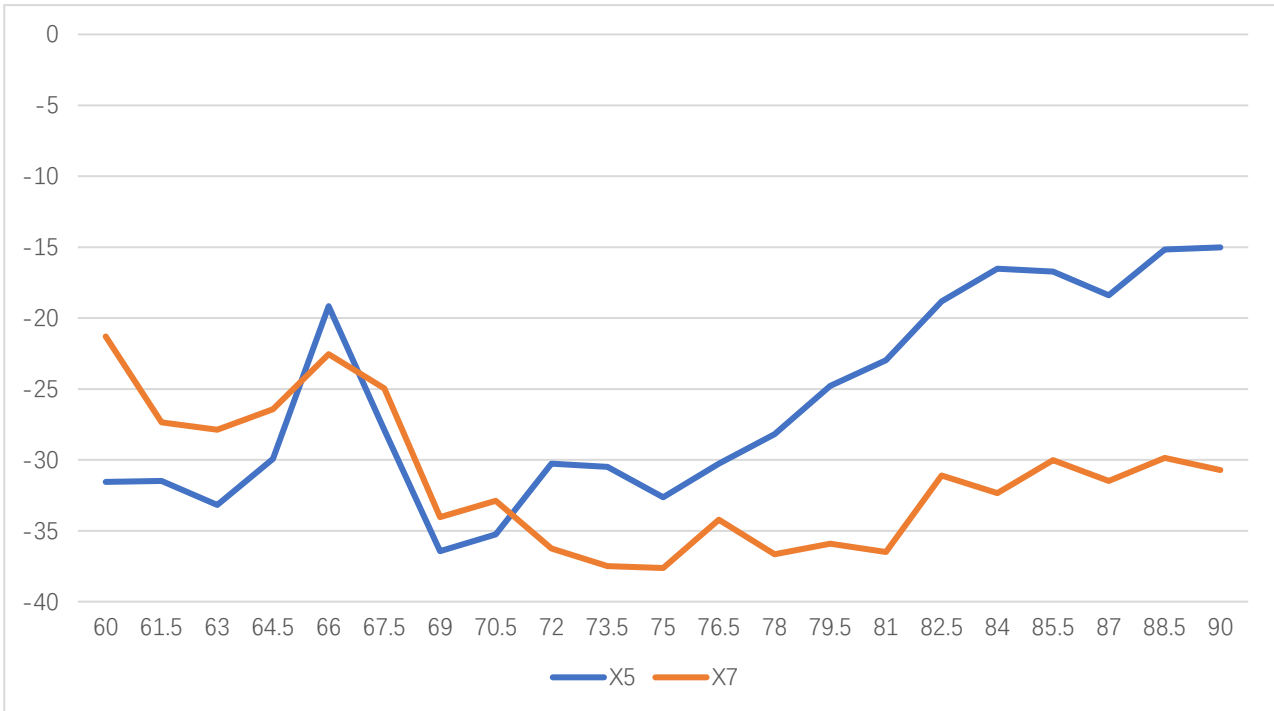


Pout vs Frequency



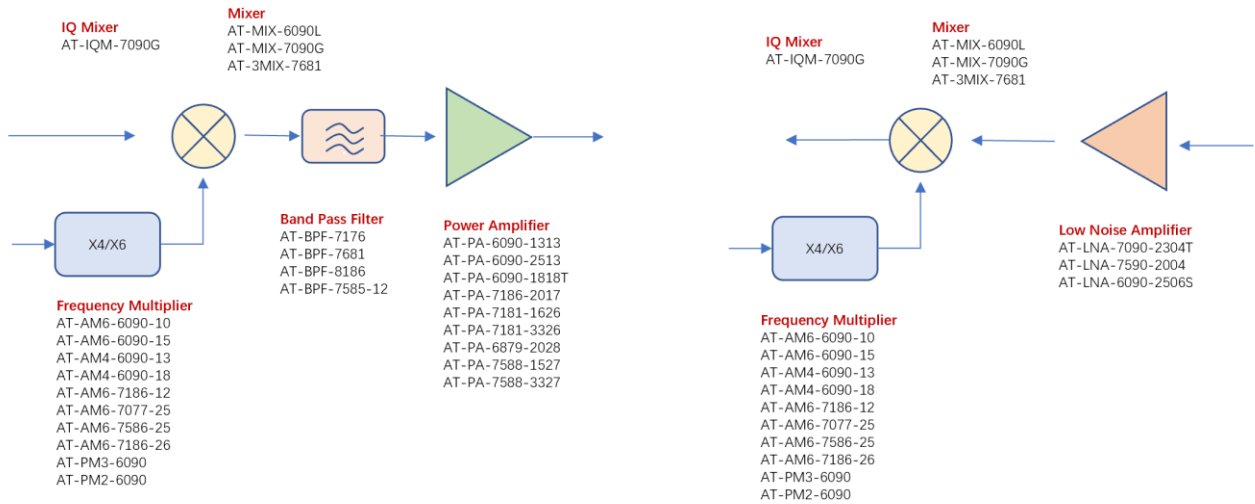
Pout vs Pin at 60/75/90GHz





X5/X7 Harmonics suppression vs X6 Pout

E Band 60-90GHz



Dimension (unit in mm)

