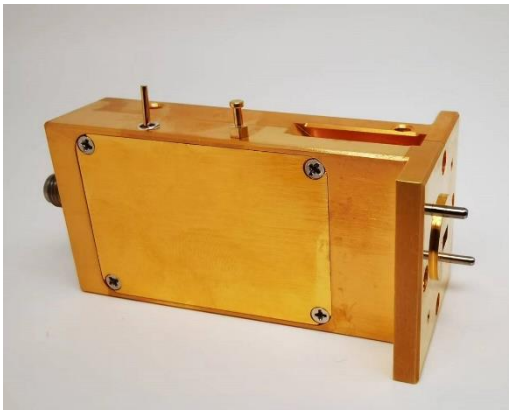
AT-AM4-4060-13

Active Multiplier x4, 40-60GHz Pout=+13dBm

Full U Band Active Multiplier Pout=+13dBm, WR-19

2022-8-11



Description:

AT-AM4-4060-13L is a full U band, active x4 frequency multiplier with low input power +8dBm. The multiplier has an input frequency of 10-15 GHz with a typical output +13dBm from 40-60GHz.

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-19. Other port configurations are available under different requirement.

More information, please visit www.atmicrowave.com

Feature

- ✓ Frequency: 40-60GHz
- ✓ Pout: +13dBm typical
- ✓ Input: 10-15GHz, +8dBm
- ✓ Low Harmonics

Application

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

Electronical Specifications:

Parameter	Min	Typical	Max
Input Frequency	10GHz		15GHz
Input Power		+8dBm	+15dBm
Multiplier Factor		X4	
Output Frequency	40GHz		60GHz
Output Power	+10dBm	+13dBm	
X3/X5 Harmonic Suppression		-40 dBc	
Drain Voltage		+5V	+8V
Current		250mA	
Spec Temp		25C	

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Mechanical Information

Item	Description
Input Port	SMA Female
Output Port	WR-19
Case Material	Copper
Finish	Gold Plated
Weight	190g
Size:	See outline

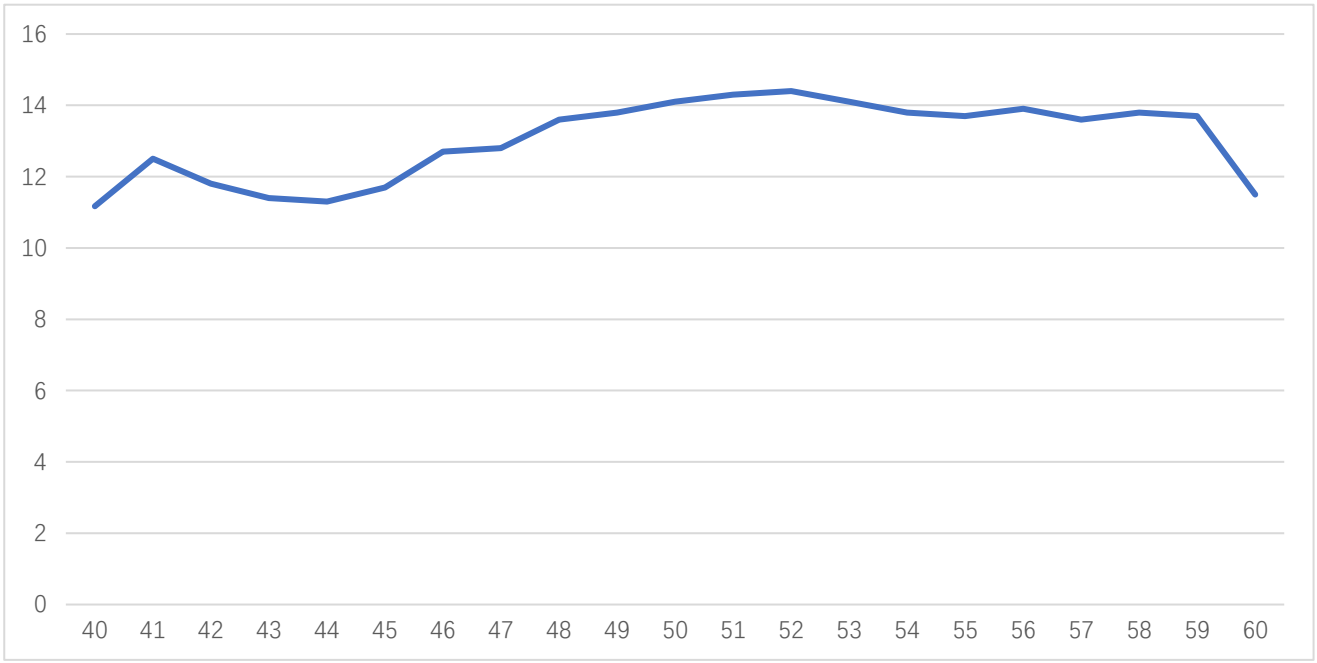
Absolute Maximum Ratings Table

Parameter	Value
Drain Supply	+8V
RF Input Power	+18dBm
Operating Temperature	0 to +50C
Storage Temperature	-65 to +150C

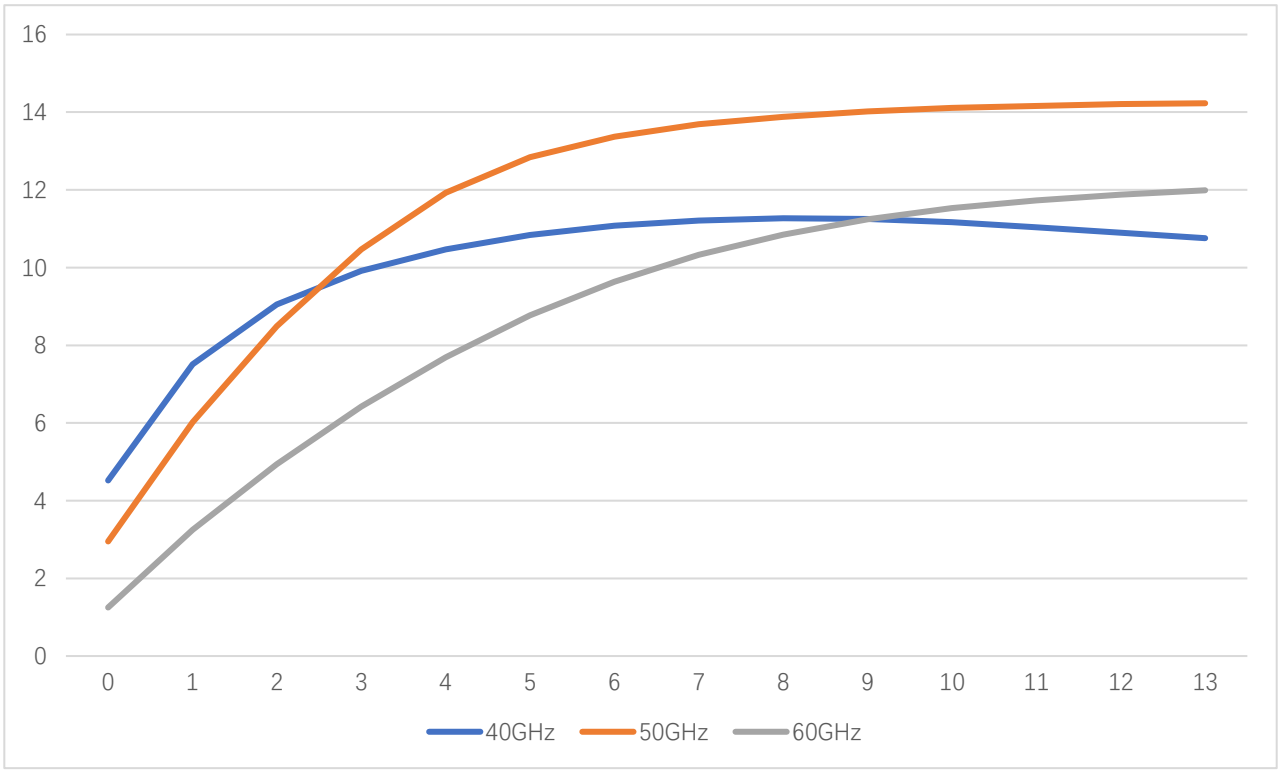
Notes:

- ✓ 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.

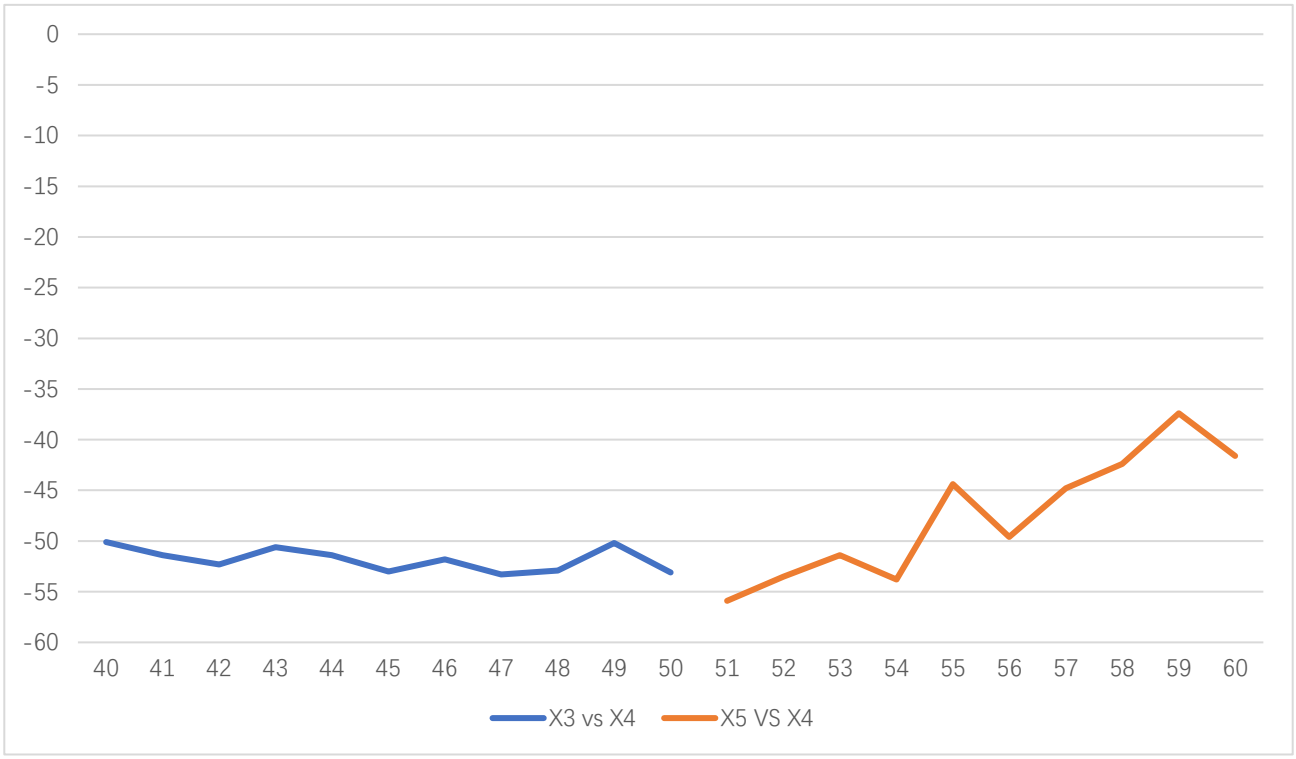
Test data



Pout vs Frequency



Pout vs Pin



X3/X5 Harmonics vs X4 Pout

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Dimension(Unit:mm)