

Full U Band Active Multiplier

2022-8-11

Pout=+13dBm, Low Input Power, WR-19



Description:

AT-AM4-4060-13L is a full U band, active x4 frequency multiplier with low input power 0dBm. 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, +3dBm
- ✓ 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	0dBm	+3dBm	+7dBm
Multiplier Factor		X4	
Output Frequency	40GHz		60GHz
Output Power	+18dBm	+20dBm	
X3/X5 Harmonic Suppression		-20 dBc	
Drain Voltage		+5V	+8V
Current		0.3A	
Spec Temp		25C	





AT-AM4-4060-13L

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

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	+15dBm
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.

Part Number Selection Guide

Part Number	Description
AT-AM4-4060-13	High Input driver +10dBm
AT-AM4-4060-13L	Low Input diver module, +0dBm. Recommended

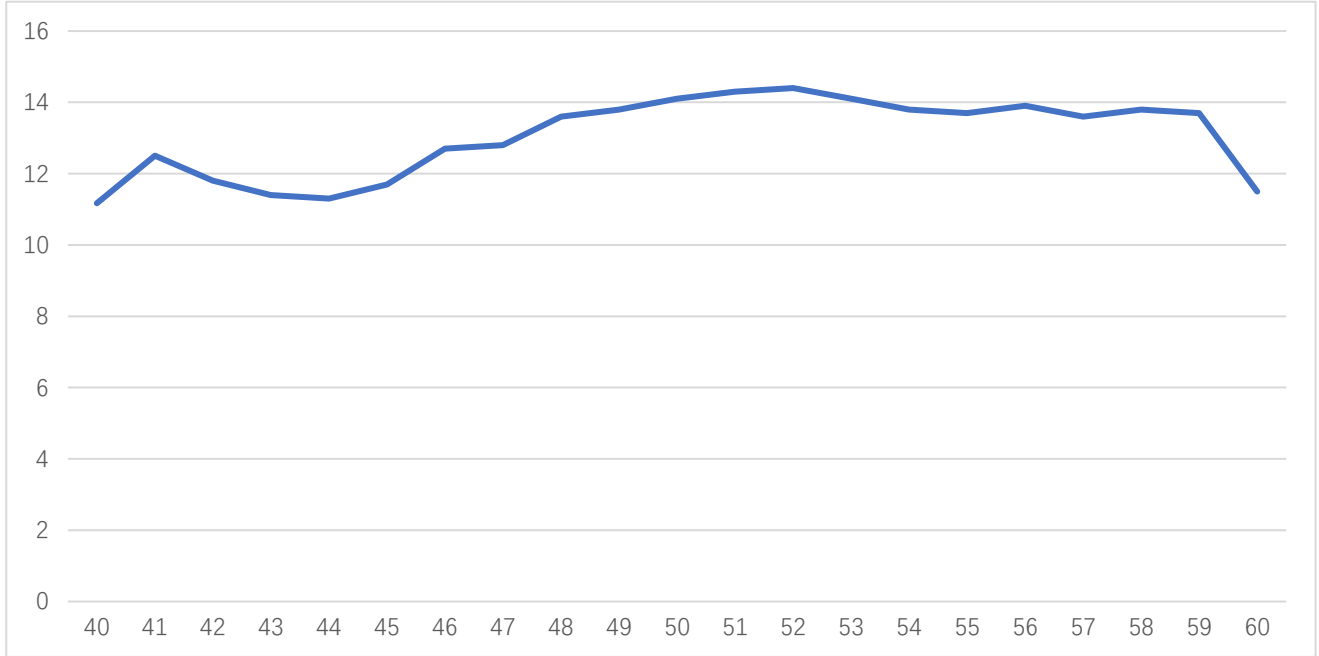




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Test data



Pout vs Frequency



Dimension (Unit:mm)

