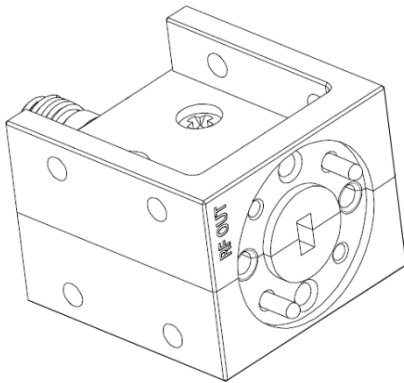


AT-PM2-5075M

Passive Multiplier x2, 50-75GHz

Full V Band X2 Passive Multiplier 50-75GHz, WR-15

2022-12-1



Description:

AT-PM2-5075M is a full V band, passive frequency multiplier. The multiplier has an input frequency of 25-37.5GHz with a typical conversion loss -15dB from 50-75GHz.

The multiplier also has a typical harmonic suppression. The input port is 2.92mm female, and the output is WR-15 waveguide UG-385/U with anti-cocking Flange. Other port configurations are available under different requirement.

More information, please visit www.atmicrowave.com

Feature

- ✓ Frequency: 50-75GHz
- ✓ CL: -15dB typical
- ✓ Input: 25-37.5GHz
- ✓ Low Harmonics

Application

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

Electronical Specifications:

Parameter	Min	Typical	Max
Input Frequency	25GHz		37.5GHz
Input Power	+12	+15dBm	+18dBm
Multiplier Factor		X2	
Output Frequency	50GHz		75GHz
Conversion Loss		-15dB	-18
X1/X3 Harmonic Suppression vs X2 Pout		-40dBc	
Drain Voltage		NO	
Spec Temp		25C	





AT-PM2-5075M

Passive Multiplier x2, 50-75GHz

Mechanical Information

Item	Description
Input Port	2.92mm Female
Output Port	WR-15 Waveguide with UG-385/U Anti-cocking Flange
Case Material	Copper
Finish	Gold Plated
Weight	65g
Size:	See outline

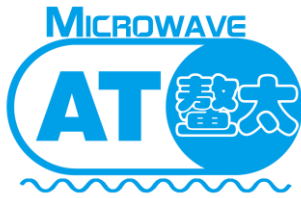
Absolute Maximum Ratings Table

Parameter	Value
RF Input Power	+23dBm
Operating Temperature	0 to +50C
Storage Temperature	-55 to +125C

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.

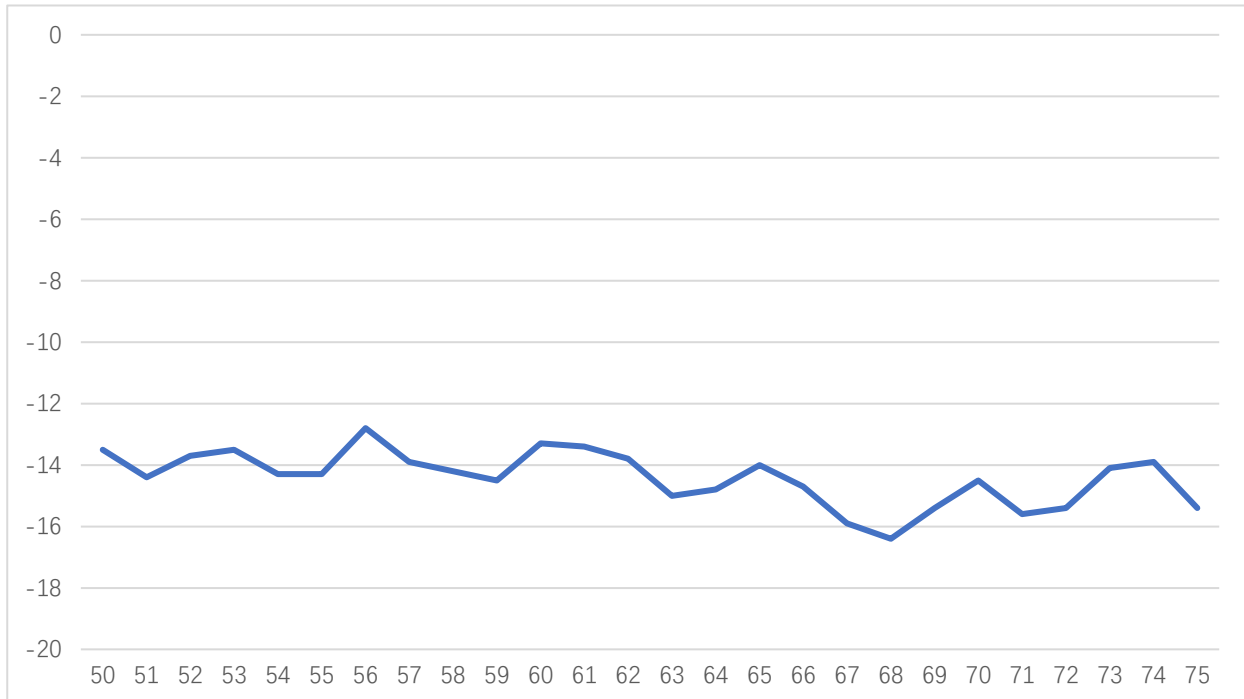




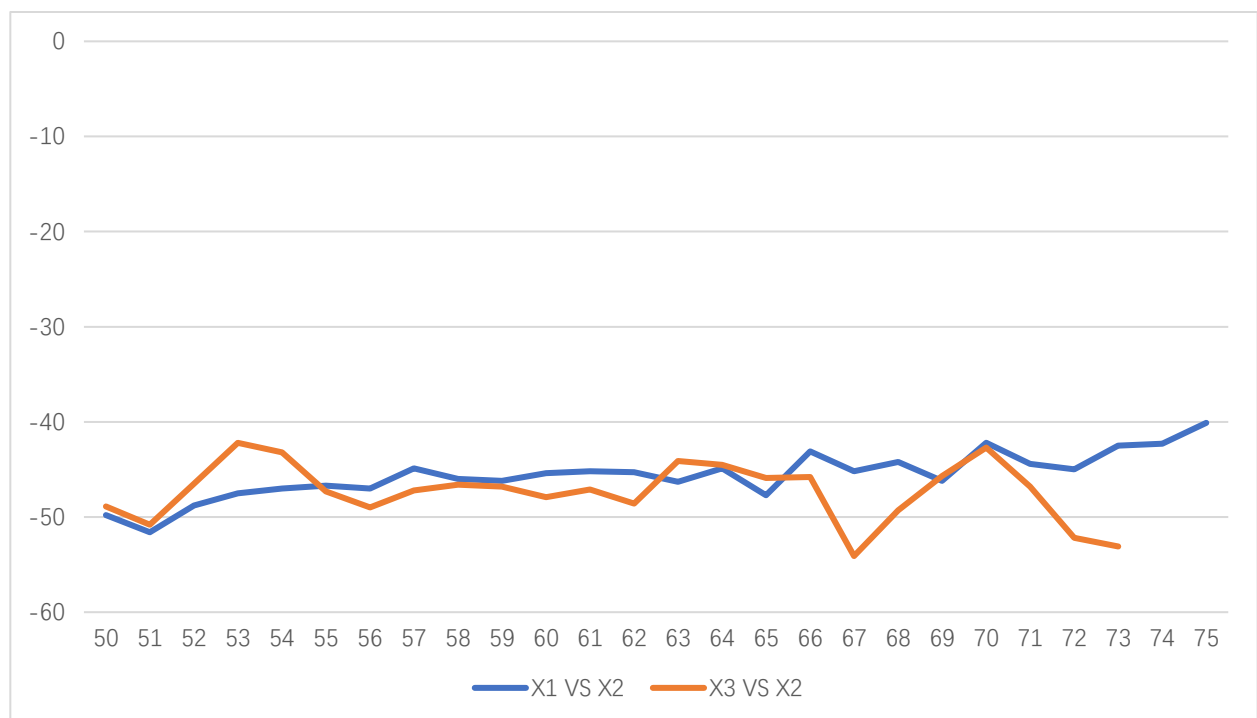
AT-PM2-5075M

Passive Multiplier x2, 50-75GHz

Test Data(25C)



Conversion Loss vs Frequency



X1/X3 Harmonics VS x2 Pout



Dimension(mm)

