

2020-09-29



Description:

AT-PM2-4067A is a passive broadband MMIC based doubler. It features excellent conversion loss, superior isolations and harmonics suppression across a broad bandwidth.

This double offers extremely high suppression, small size, repeatability, scalable cost for high volume applications

More information, please visit www.atmicrowave.com

Feature

- ✓ Wideband coverage
- ✓ Low Conversion Loss
- ✓ High 1st /3rd Isolation
- ✓ Small Size
- ✓ Low Cost

Application

- ✓ 5G Systems
- ✓ Raday System
- ✓ Test Equipment
- ✓ ROF (RF Over Fiber)
- ✓ Communication System

Electronical Specifications:

Parameter	Min	Typical	Max
Input Frequency	20GHz		33.5GHz
Input Power		+13 dBm	+17dBm
Output Frequency	40GHz		67GHz
Conversion Loss		40-60GHz: -12dB 60-67GHz: -15dB	-15 -18
1 st Suppression vs X2 Pout	-25	-30dBc	
3rd Suppression vs X2 Pout	-30	-40dBc	
Input Return Loss		-5 dB	
Output Return Loss		-10 dB	
Bias		NO	
Spec Temp		25C	





AT-PM2-4067A

40-67GHz Output Passive Doubler

Mechanical Information

Item	Description
Input Port	2.92mm Female
Output Port	1.85mm Female
Case Material	Copper
Finish	Nickel Plated
Weight (Without Heatsink)	16g
Size:	14x13.3x9.3mm

Absolute Maximum Ratings Table

Parameter	Value
RF Power Handling	+17dBm
Operating Temperature	-20 to +70C
Storage Temperature	-65 to +150C

Note: -40 to 85C operating Temp range is available according to request.

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.



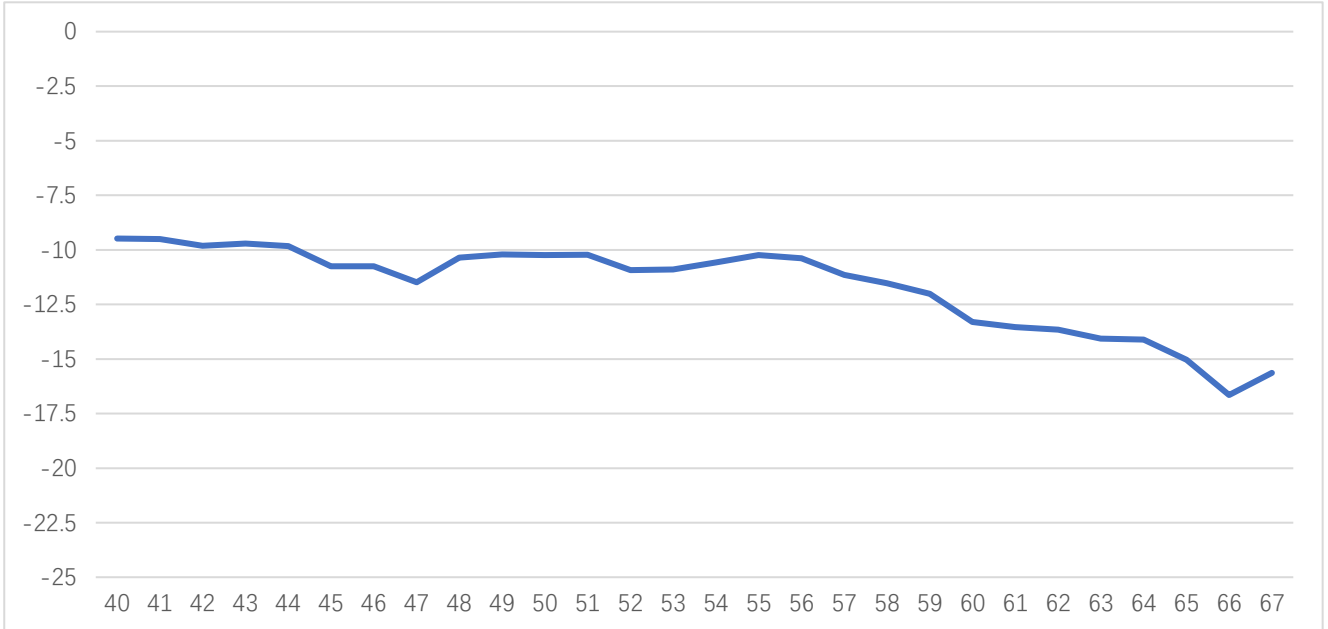


AT-PM2-4067A

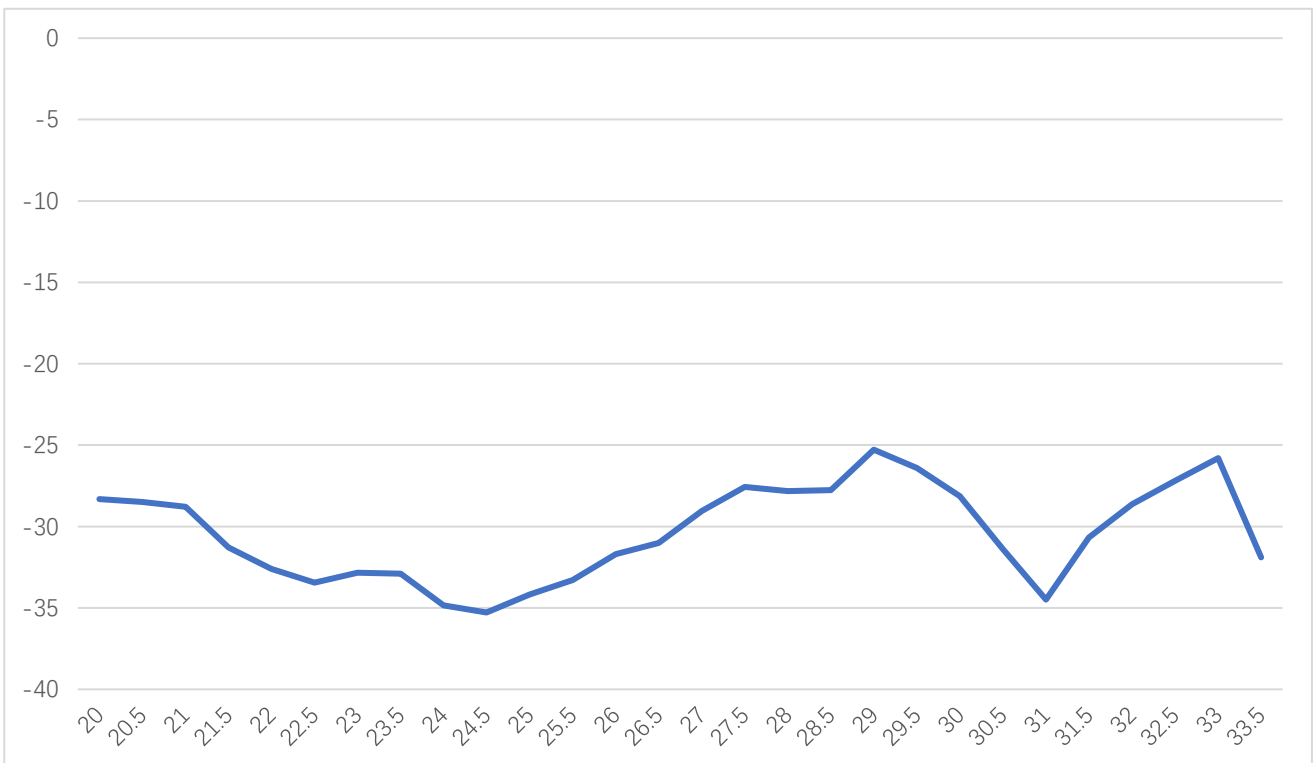
40-67GHz Output Passive Doubler

Test Data:

Pin=+13dBm, 25C

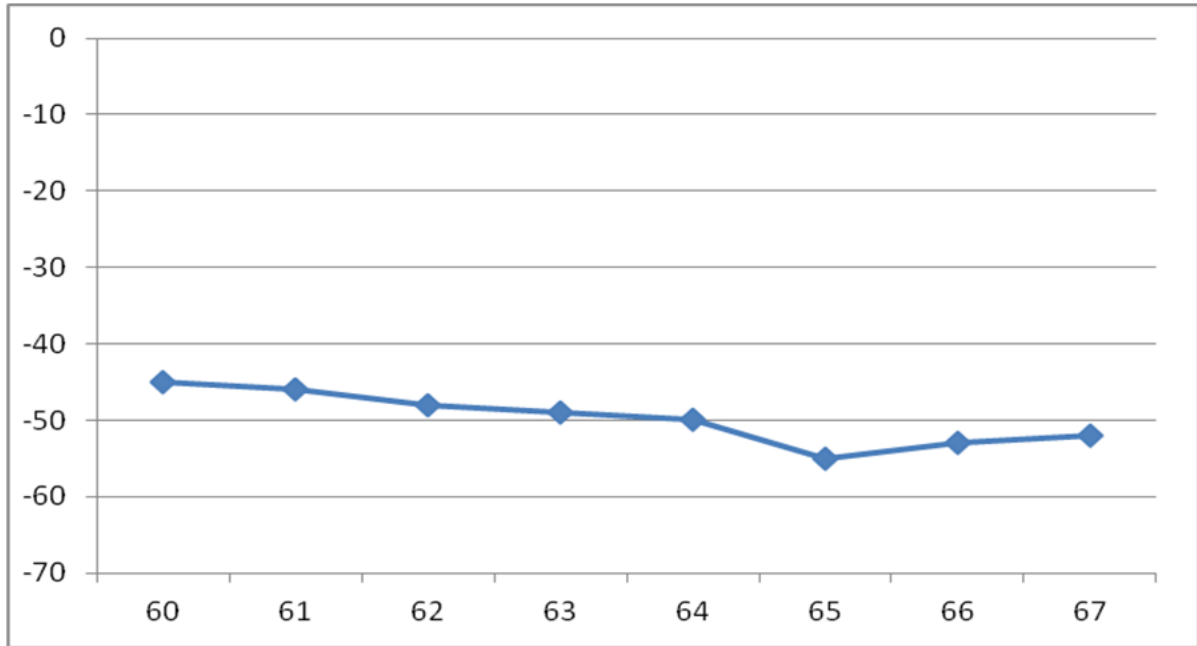


Conversion Loss vs Frequency



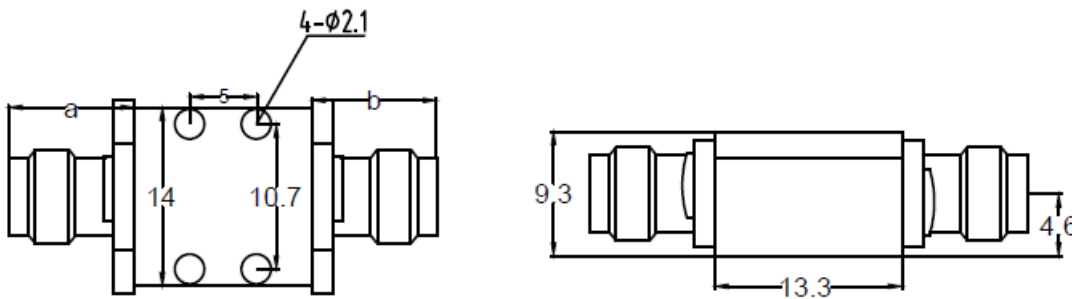
X1 Suppression comparing with X2 Pout





X3 Suppression comparing with X2 Pout

Dimension: (mm)



	<26.5GHz	<40GHz	<50GHz	<67GHz
Connector	SMA	2.92mm	2.4mm	1.85mm
a/b Length	9.4mm	9.5mm	10.9mm	11.3mm

Female Default. Contact with us for other types.

