



AT-AM2-2246-13A

Active Multiplier x2, 22-46GHz Pout=+13dBm

Active X2, 22-46GHz Broadband



Description:

AT-AM2-2246-13A is a broadband frequency doubler. The doubler has an input frequency of 11-23 GHz with a typical output +13dBm from 22-46GHz.

The integrated input and output buffers deliver high output power at a low drive level. The doubler also has a typical harmonic suppression. The input port is SMA female, and the output is 2.4mm Female. Other port configurations are available under different requirement.

More information, visit: www.atmicrowave.com

Feature

- ✓ Frequency: 22-46GHz
- ✓ Pout: +13dBm typical
- ✓ Input: 22-46GHz
- ✓ Low Harmonics

Application

- ✓ 28/39GHz 5G Communication
- ✓ Test Equipment
- ✓ ROF (RF Over Fiber)
- ✓ Radar System

Electronical Specifications:

Parameter	Min	Typical	Max
Input Frequency	11GHz		23GHz
Input Power	+0	+5dBm	+6
Multiplier Factor		X2	
Output Frequency	22GHz		46GHz
Output Power		+13dBm	
1 st Harmonic Suppression		-20dBc	
3 rd Harmonic Suppression		-10dBc	
4 th Harmonic Suppression		-5dBc	
Drain Voltage	+5.5V	+8V/180mA	+12V
Spec Temp		25C	





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Mechanical Information

Item	Description
Input Port	SMA Female
Output Port	2.4mm Female
Case Material	Copper
Finish	Gold Plated
Weight (Without Heatsink)	80g
Size:	30x30x9.5mm

Absolute Maximum Ratings Table

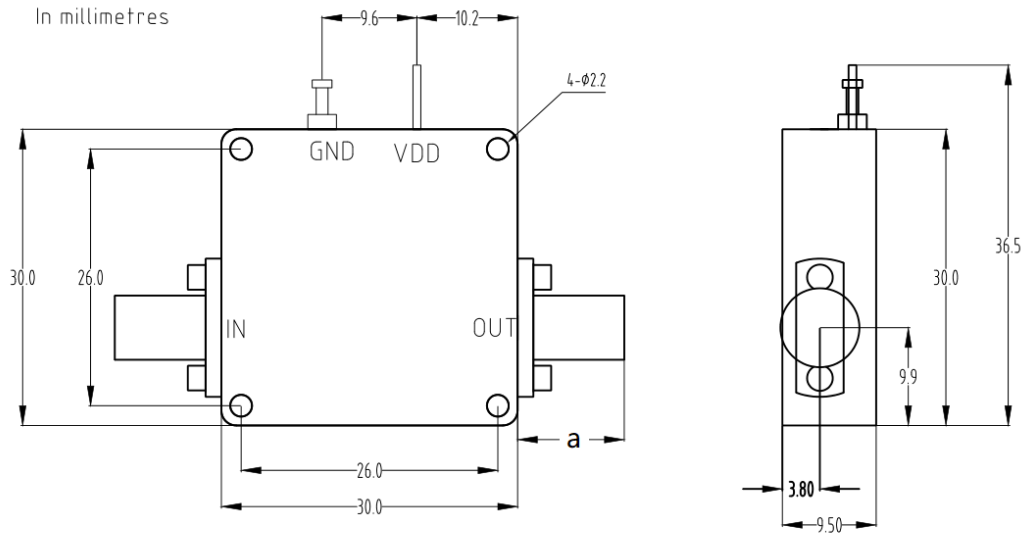
Parameter	Value
Drain Supply	+13V
RF Input Power	+10dBm
Operating Temperature	-20 to +70C
Storage Temperature	-65 to +150C

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.



Dimension: (Unit:mm)



	<26.5GHz	<40GHz	<50GHz	<67GHz
Connector	SMA	2.92mm	2.4mm	1.85mm
Lenth of a	9.4mm	9.5mm	10.8mm	11.3mm

Note: Female Default. Contact with us for other types.

Heat Sink Required If Case Temp Higher Than 50C

