



AT-AM2-1844C

Active Multiplier x2, 18-44GHz Pout=+0dBm

Active X2, 18-44GHz Frequency Doubler

2020-08-18



Description:

AT-AM2-1844-00C is a broadband frequency doubler. The doubler has an input frequency of 9-22 GHz with a typical output +0dBm from 18-44GHz.

The integrated 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.

More information, please visit www.atmicrowave.com

Feature

- ✓ Frequency: 18-44GHz
- ✓ Pout: +0dBm typical
- ✓ Input: 9-22GHz
- ✓ Low Harmonics

Application

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

Electronical Specifications:

Parameter	Min	Typical	Max
Input Frequency	9GHz	10-20	24GHz
Input Power	+2	+5dBm	+8
Multiplier Factor		X2	
Output Frequency	18GHz	20-40GHz	44GHz
Output Power	-3	0dBm	
1 st Harmonic Suppression		-25dBc	
3 rd Harmonic Suppression		-25dBc	
4 th Harmonic Suppression		-15dBc	
Drain Voltage		+8V/30mA	
Spec Temp		+25C	





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Mechanical Information

Item	Description
Input Port	SMA Female
Output Port	2.92mm Male
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

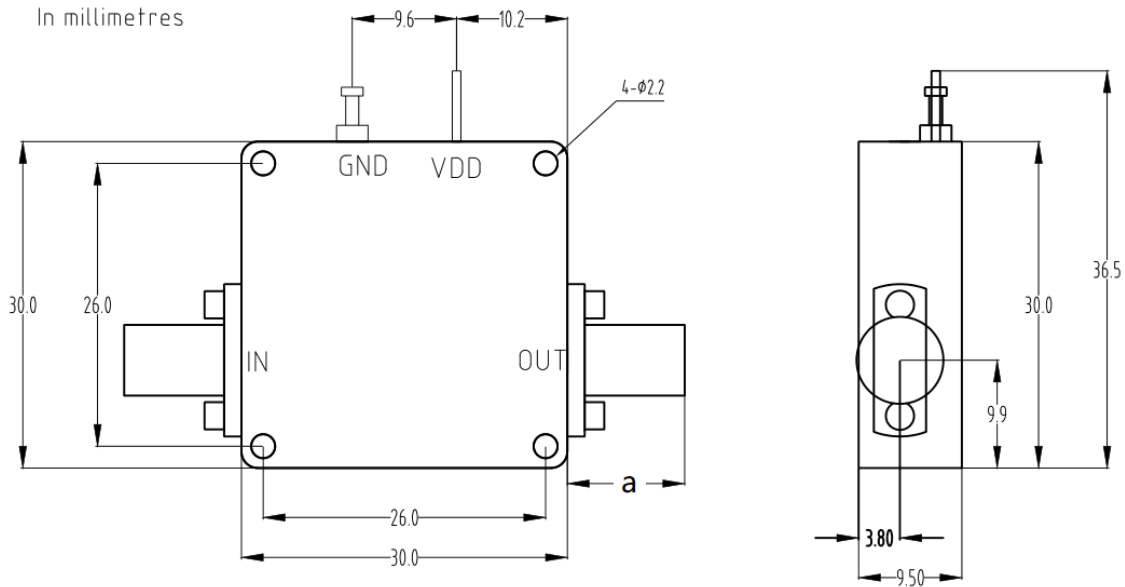
Note: -40 to 85C operating Temp range is available according to request.

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.



Dimension:



	<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

