

## Active X2, 8-21GHz Frequency Doubler

2020-08-18



### Description:

AT-AM2-0821-15A is a broadband frequency doubler. The doubler has an input frequency of 4-10.5 GHz with a typical output +15dBm from 8-21GHz.

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 SMA Female.

More information, please visit [www.atmicrowave.com](http://www.atmicrowave.com)

### Feature

- ✓ Frequency: 8-21GHz
- ✓ Pout: +15dBm typical
- ✓ Input: 4-10.5GHz
- ✓ Low Harmonics

### Application

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

### Electronical Specifications:

Parameter	Min	Typical	Max
Input Frequency	4GHz		11.5GHz
Input Power		+5dBm	
Multiplier Factor		X2	
Output Frequency	8GHz		21GHz
Output Power		+15dBm	
1 <sup>st</sup> Harmonic Suppression		-15dBc	
3 <sup>rd</sup> Harmonic Suppression		-15dBc	
4 <sup>th</sup> Harmonic Suppression		-15dBc	
Drain Voltage		+5V/100mA	+8V
Spec Temp		+25C	





# AT-AM2-0821-15A

Active Multiplier x2, 8-21Hz Pout=+15dBm

## Mechanical Information

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

## Absolute Maximum Ratings Table

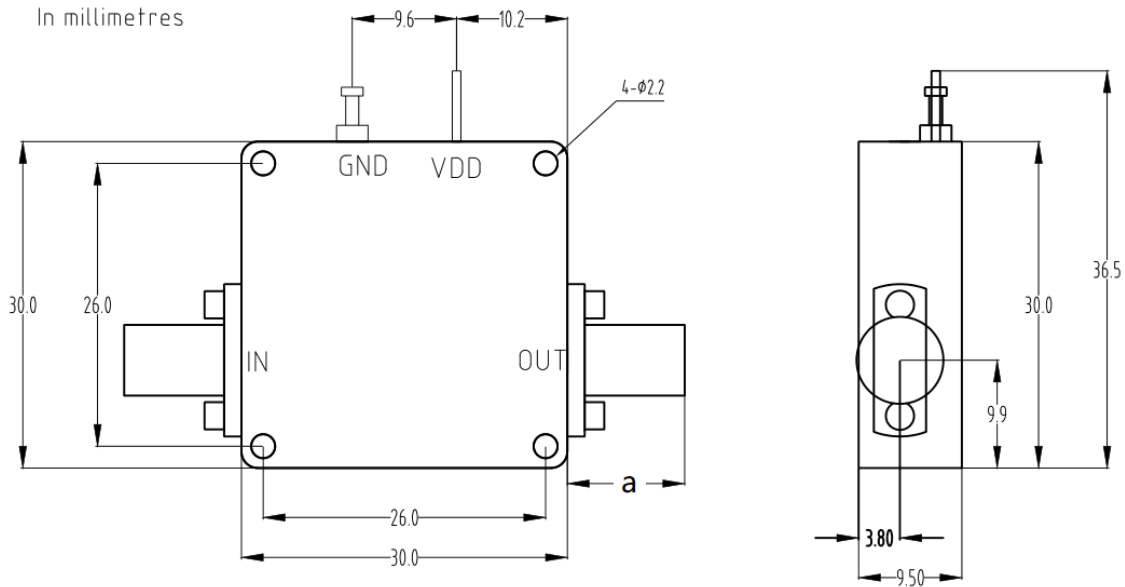
Parameter	Value
Drain Supply	+13V
RF Input Power	+10dBm
Operating Temperature	-20 to +70C
Storage Temperature	-65 to +150C

### 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:



	<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

