

# 10MHz-20GHz Broadband Amplifier



### Product Overview

AT-PA-0020-3021X is broadband amplifier from 10MHz-20GHz, with  $P_{out}=+21dBm$ ,  $NF=5dB$ . It can be used both as Power amplifier and low noise amplifier. The DC power requirement is +12V/250mA. The module is with SMA Female

The broadband amplifier has high gain, high linearity, low input/output return loss and flat gain response.

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

### Advantages

- ✓ Frequency: 10MHz-20GHz
- ✓  $P_{sat}=+21dBm$
- ✓ Small signal gain: 30dB
- ✓ Single Power Supply

### Application

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

### Key Features

Parameter	Min	Typical	Max
Frequency		10MHz-20GHz	
Gain		30dB	
P1dB		+20dBm	
Psat		+21dBm	
Drain Supply		+12V	+15
Current		250 mA	500
NF		5dB	
Input VSWR		1.5	2.5
Output VSWR		1.5	2.5
Spec Temp		25C	





# AT-BB-0020-3021X

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## Mechanical Information

Item	Description
Input Port	SMA Female
Output Port	SMA Female
Case Material	Copper
Finish	Gold Plated
Weight (Without Heatsink)	55g
Size:	30x30x9.5 mm

## Absolute Maximum Ratings Table

Parameter	Value
Drain Supply	+15V
RF Input Power	+10 dBm
Operating Temperature	-20 to +70C
Storage Temperature	-65 to +150C

### Caution:

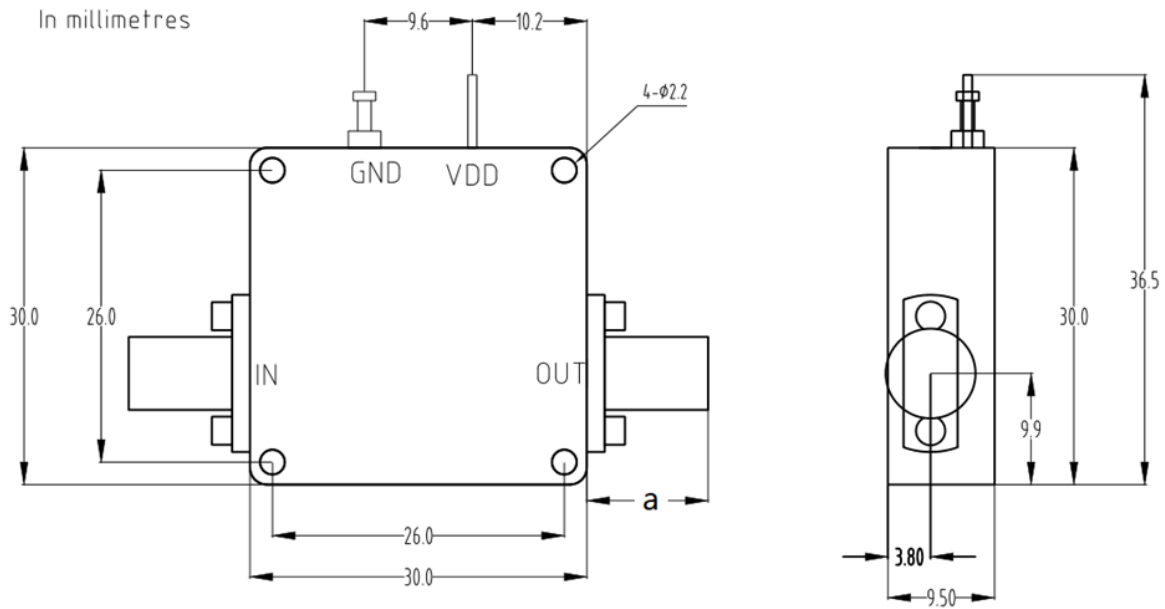
Please pay attention to the case temperature. If case temperature exceed higher than +50C, heat sink and fan are required, or the amplifier may be damaged.

## Notes:

1. Datasheet may be changed according to update of MMIC, Raw materials , process, and so on.
2. This data is only for reference, not for guaranteed specifications.
3. Please contact AT Microwave team to make sure you have the most current data.



### Dimension: (unit in 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 When Case Temp Higher than 50C

