

## AT-BB-0043-3520C

10MHz-43GHz Broadband Amplifier

2022-3-22

# 10MHz-43GHz Broadband Amplifier



### **Product Overview**

AT-BB-0043-3520C is broadband amplifier from 10MHz-43GHz, with Pout=+22dBm, NF=6dB. It can be used both as Power amplifier or low noise amplifier. The DC power requirement is +8V/350mA. The module is with 2.92mm Female

+5V Single power supply (With 3dB lower output power) is) also available according to request. Bench-top test equipment type with 110-240V power supply is available according to request.

More information, please visit www.atmicrowave.com

### **Advantages**

Frequency: 10MHz-43GHz

Psat:+22dBm

Small signal gain: 35dB Single Power Supply

### **Application**

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

## **Key Features**

Parameter	Min	Typical	Max
Frequency		10MHz-43GHz	
Gain	33dB	35dB	
Gain Flatness		+/-3dB	+/-5dB
P1dB (0.1-40GHz)		+20 dBm	
Psat (0.1-40GHz)		+22dBm	
Drain Supply	+8V	+12V	+13V
Current		350 mA	450mA
NF(1-40GHz)		4.5dB	6dB
Input Return Loss		-10dB	
Output Return Loss		-10dB	
Spec Temp		25C	





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#### **Mechanical Information**

Item	Description		
Input Port	2.92mm Female		
Output Port	2.92mm Female		
Case Material	Copper		
Finish	Gold Plated		
Package Sealing	Epoxy Sealed		
Weight (Without Heatsink)	80g		
Size:	See outline		

### **Absolute Maximum Ratings Table**

Parameter	Value		
Drain Supply	+15V		
RF Input Power	+15 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:**

- 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.
- Please contact AT Microwave team to make sure you have the most current data.

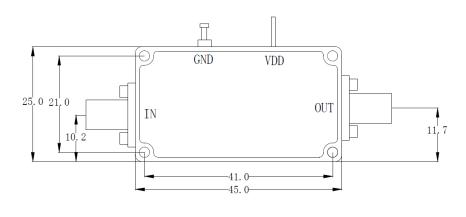


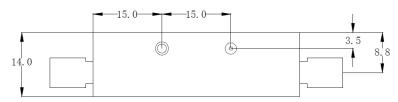


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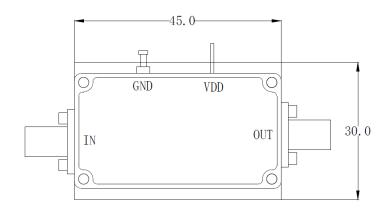
## **Dimension:** (unit in mm)

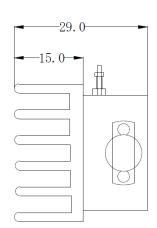




	<26.5GHz	<40GHz	<50GHz	<67GHz
Connector	SMA	2.92mm	2.4mm	1.85mm
Lenth of a	9.4mm	9.5mm	10.8mm	11.3mm

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





Including a small heatsink without Fan if output Power higher than +20dBm.

Customers can removed it or use their own heatsink according to actual situation.

## Heat Sink Required During Operation