

AT-BB-0050-2320C

10MHz-50GHz Broadband Amplifier

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Product Overview



AT-PA-0050-2320C is broadband amplifier from 10MHz-50GHz, with $P_{out}=+22\text{dBm}$, $NF=4.5\text{dB}$. It can be used both as Power amplifier or low noise amplifier. The DC power requirement is $+8\text{V}/330\text{mA}$. The module is with 2.4mm Female. 1.85mm is available according to request.

AT Microwave can provide all kinds of coaxial low noise amplifiers, with frequency from 0.01-67GHz, gain from 20 to 60dB, P_{out} from $+5$ to $+27\text{dBm}$, and connectors from SMA to 1.85mm.

More information, please visit www.atmicrowave.com

Advantages

- ✓ Frequency: 10MHz-50GHz
- ✓ $P_{sat}:+22\text{dBm}$
- ✓ Small signal gain: 23dB
- ✓ Single Power Supply

Application

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

Mechanical Information

Item	Description
Input Port	2.4mm Female
Output Port	2.4mm Female
Case Material	Copper
Finish	Gold Plated
Weight (Without Heatsink)	80g
Size:	30x30x14 mm

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Key Features

Parameter	Min	Typical	Max
Frequency		10MHz-50GHz	
Gain	20dB 18dB	10MHz-45GHz : 23dB 45-50GHz: 20dB	
P1dB (10MHz-40GHz)		+20dBm	
Psat (10MHz-40GHz)		+22dBm	
Drain Supply	Note1	+8 to +12V	+13V
Current		330 mA	
NF(1-40GHz)		4.5dB	6.5dB
Input Return Loss		-10dB	
Output Return Loss		-10dB	
Spec Temp		25C	

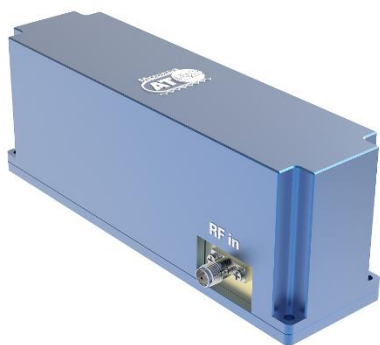
Note1: Lower Vdd is preferred due to lower power consumption. Same RF Performance with +8V to +13V.

Absolute Maximum Ratings Table

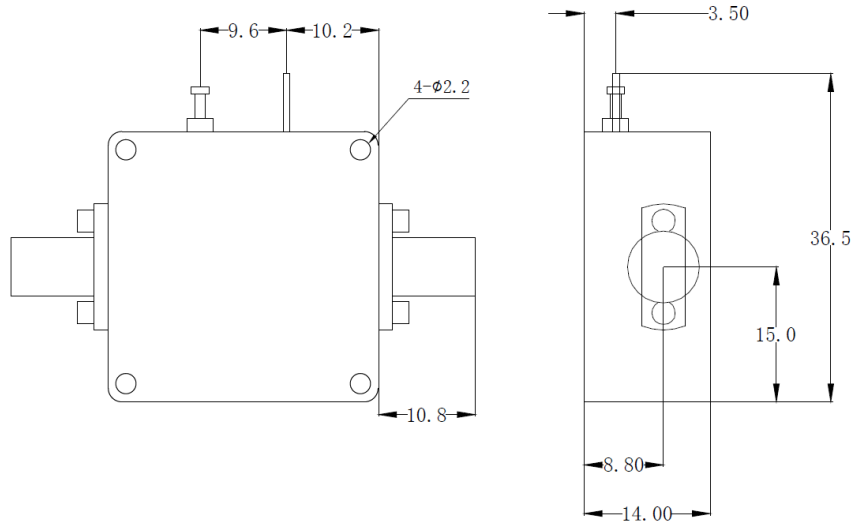
Parameter	Value
Drain Supply	+15V
RF Input Power	+15 dBm
Operating Temperature	-20 to +70C
Storage Temperature	-65 to +150C

Part Number Selection Guide

Item	Description
PN	Standard Module with DC Power Supply
PN-LCBT	L ow Cost, C ompact B ench- T op, +220V Supply with AC/DC Adapter

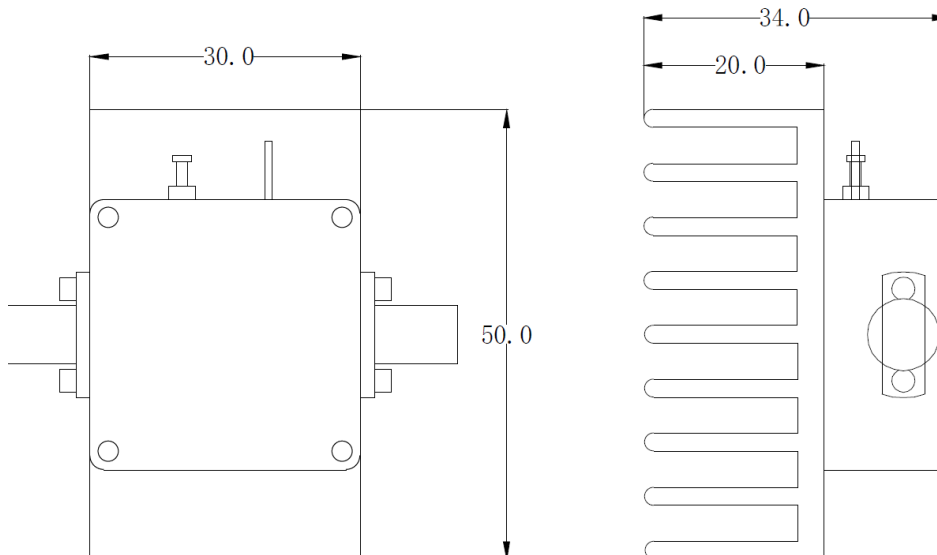


Dimension: (unit in mm)



	<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

