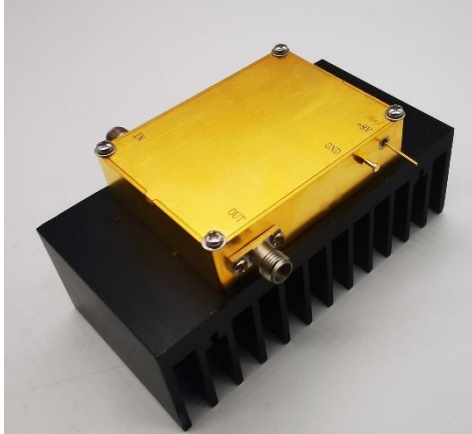


10MHz-26.5GHz Broadband Amplifier



Product Overview

AT-PA-0026-3527C is broadband amplifier from 10MHz-26.5GHz, with $P_{out}=+27dBm$, $NF=4dB$. It can be used both as Power amplifier and low noise amplifier. The DC power requirement is +10V/650mA. The module is with SMA Female

The broadband amplifier has high gain, high linearity, low input/output return loss and flat gain response. 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-26.5GHz
- ✓ $P_{sat}:+27dBm$
- ✓ 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-26.5GHz	
Gain	33dB	35dB	
P1dB		10MHz-18GHz: +25dBm 18-26.5GHz: +22dBm	
Psat		10MHz-18GHz: +27dBm 18-26.5GHz: +24dBm	
Drain Supply		+10V	+12V
I _{dd} NO RF		600 mA	
IDD at Psat		700 mA	0.85A
NF		4dB	
Input Return Loss		-10dB	
Output Return Loss		-10dB	
Spec Temp		25C	





AT-BB-0026-3527C

10MHz-26.5GHz Broadband Amplifier

Mechanical Information

Item	Description
Input Port	SMA Female
Output Port	SMA Female
Case Material	Copper
Finish	Gold Plated
Package Sealing	Epoxy Sealed
Weight (Without Heatsink)	150g
Size:	60x45x14 mm

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 exceeds 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.

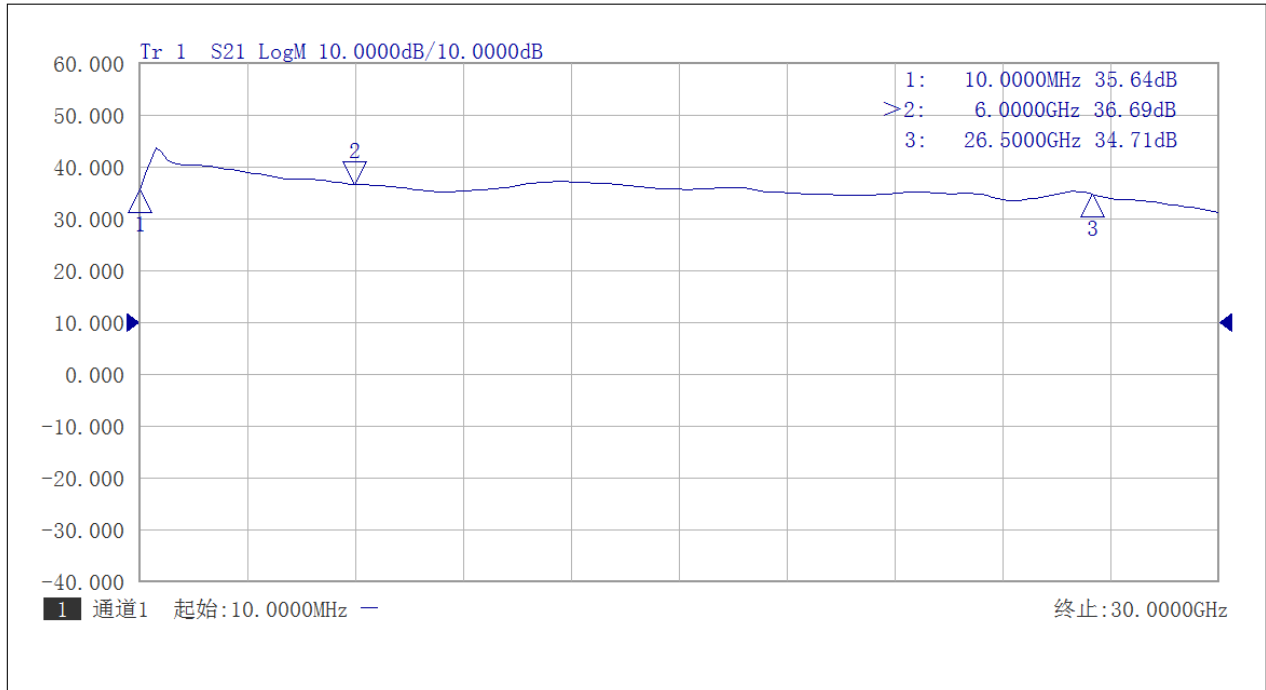




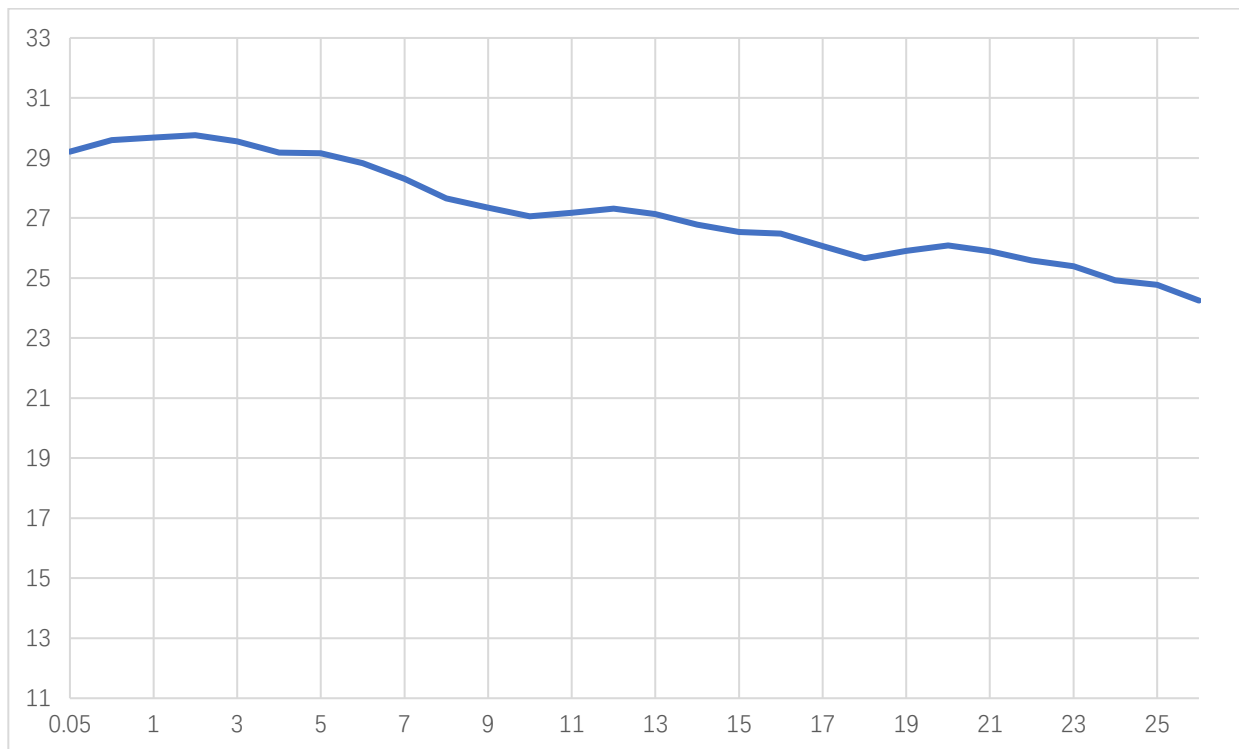
AT-BB-0026-3527C

10MHz-26.5GHz Broadband Amplifier

Test Data:



Gain vs Frequency



Psat vs Frequency

Shanghai AT Microwave Limited

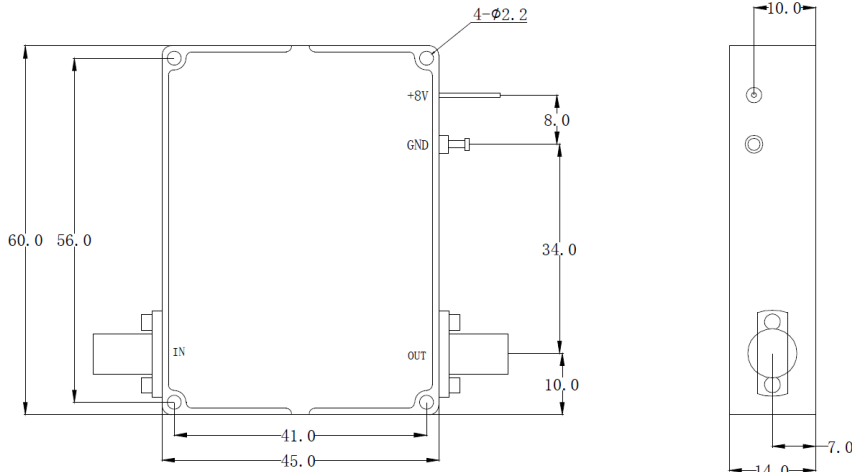
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Email:sales@atmicrowave.com

www.atmicrowave.com

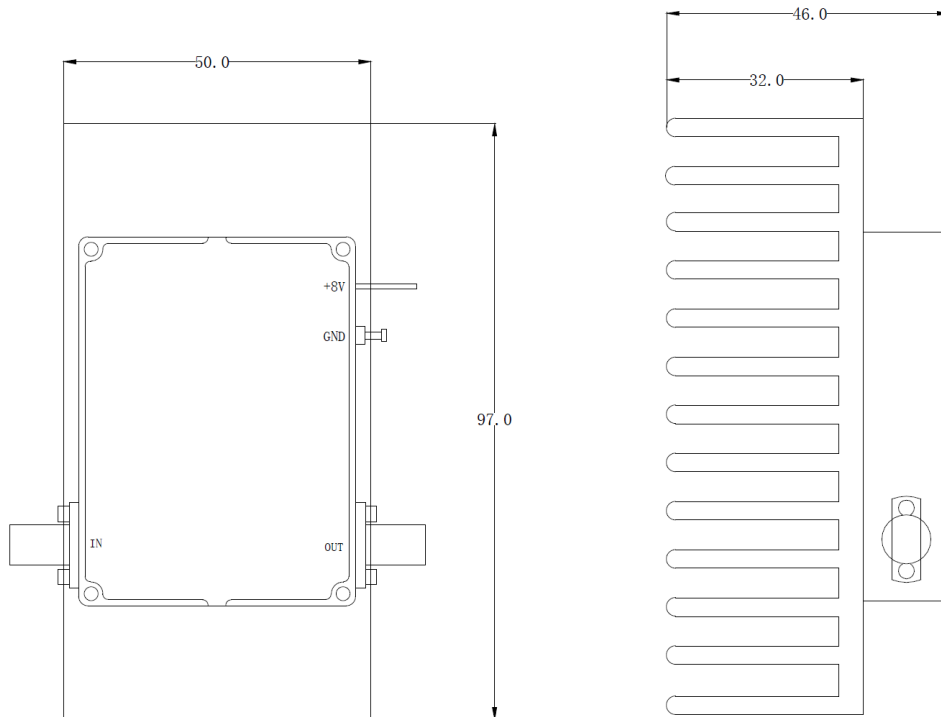


Dimension: (unit in mm)



	<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 if case Temp higher than 50C

