

10MHz-26.5GHz Broadband Amplifier



Product Overview

AT-BB-0026-2327C is broadband amplifier from 10MHz-26.5GHz, with $P_{out}=+27dBm$, $NF=5dB$. It can be used both as Power amplifier and low noise amplifier. The DC power requirement is +10V/550mA. 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: 23dB
- ✓ 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	20dB	23dB	
P1dB		10MHz-18GHz: +25dBm 18-26.5GHz: +22dBm	
Psat		10MHz-18GHz: +27dBm 18-26.5GHz: +24dBm	
Drain Supply		+10V	+12V
I _{dd} NO RF		550 mA	
IDD at Psat		650 mA	0.8A
NF(1-26GHz)		5dB	
Input Return Loss		-10dB	
Output Return Loss		-10dB	
Spec Temp		25C	





AT-BB-0026-2327C

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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:	59x30x9.5 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:

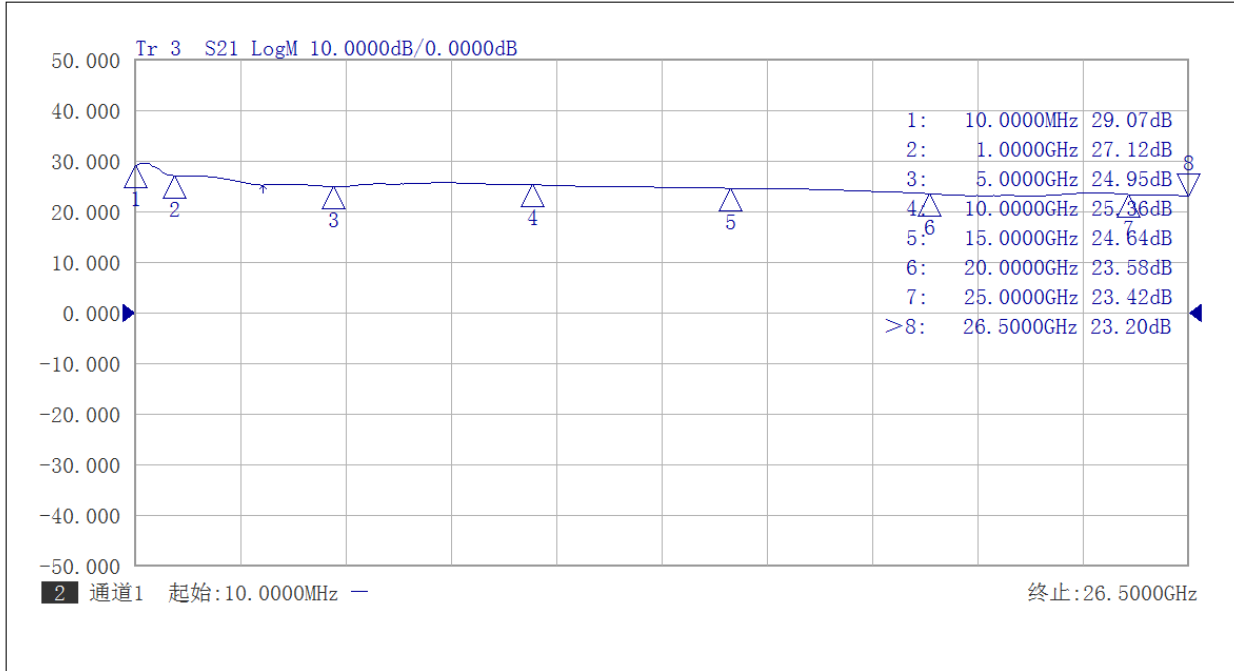
Please pay attention to the case temperature. If case temperature exceeds higher than +50C, heat sink and fan are required, or the amplifier may be damaged.

Notes:

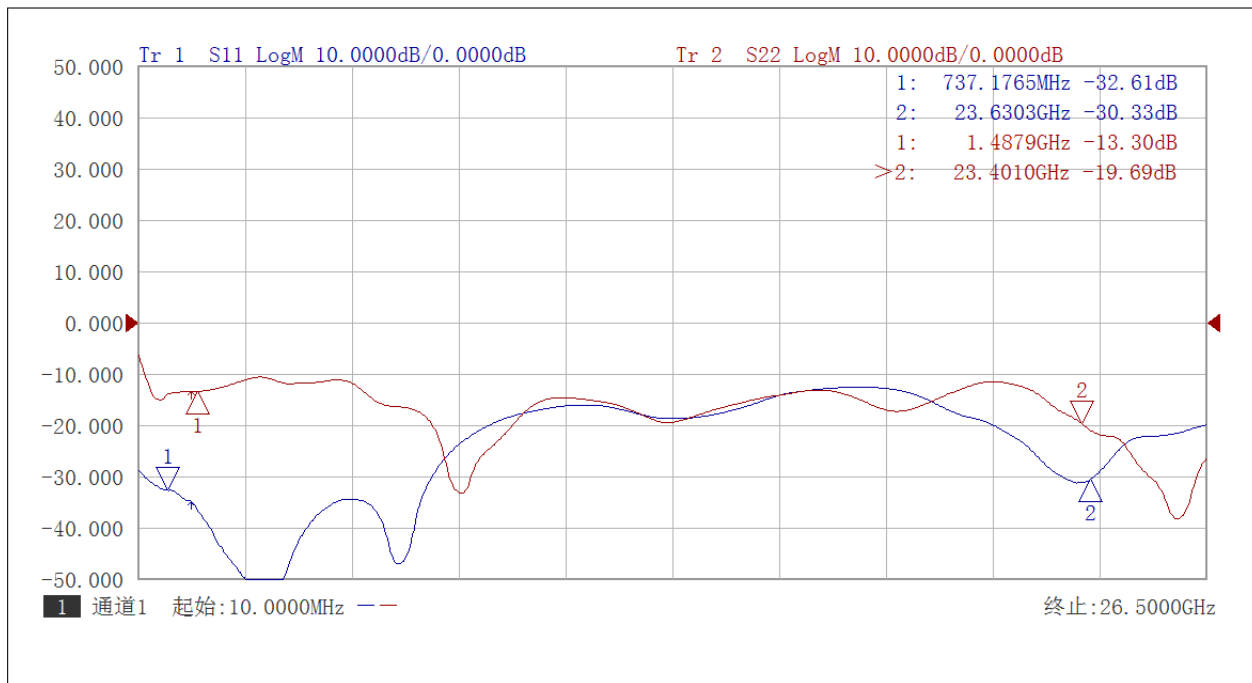
1. Datasheet may be changed according to update of MMIC, Raw materials , process, and so on.
2. This data is only for reference, not for guaranteed specifications.
3. Please contact AT Microwave team to make sure you have the most current data.



Test Data:

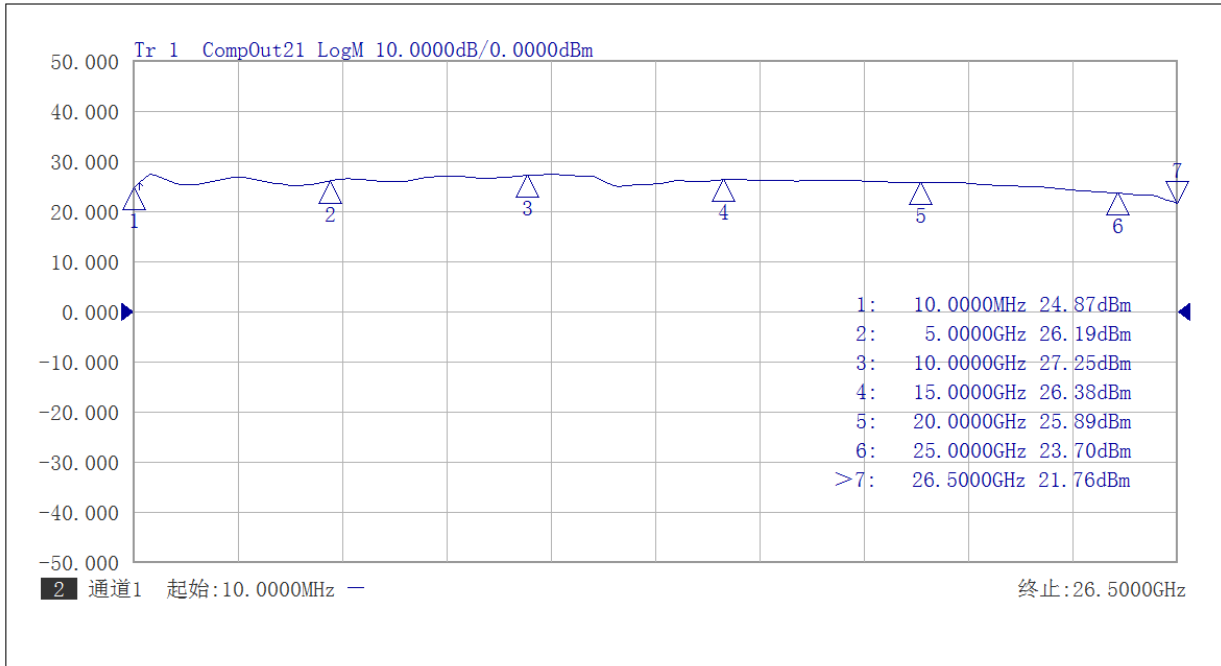


Gain vs Frequency

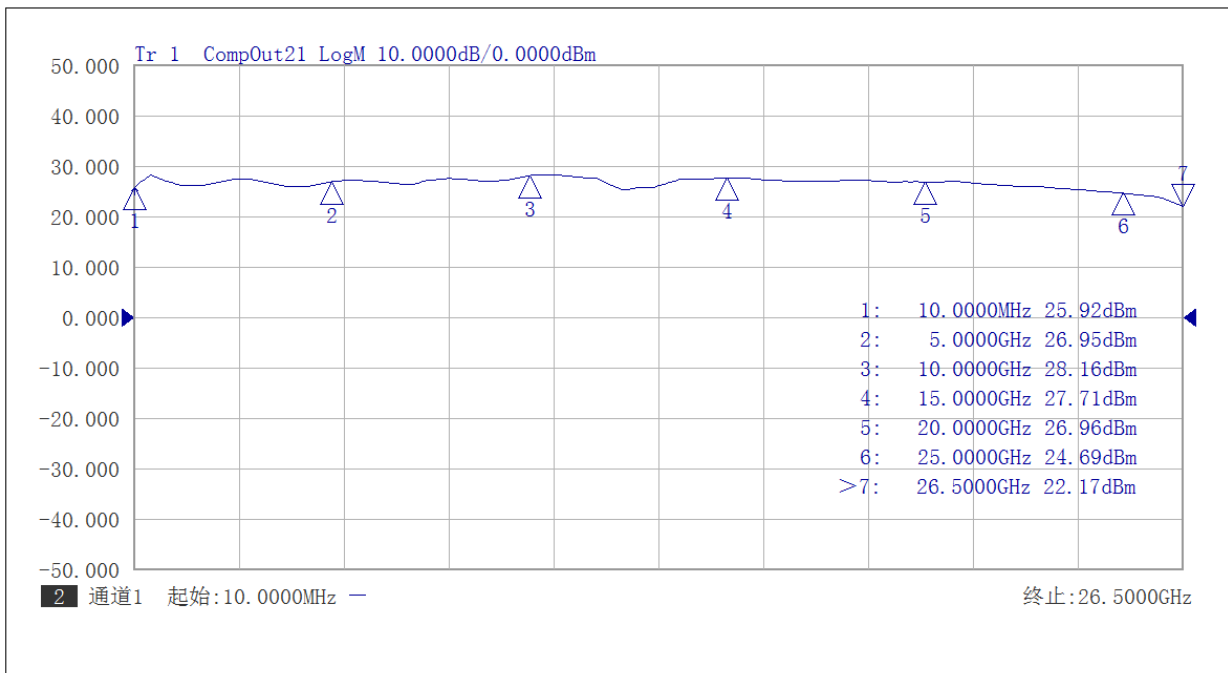


Input and Output Return Loss vs Frequency



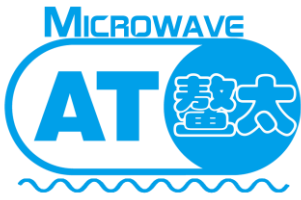


P1dB vs Frequency



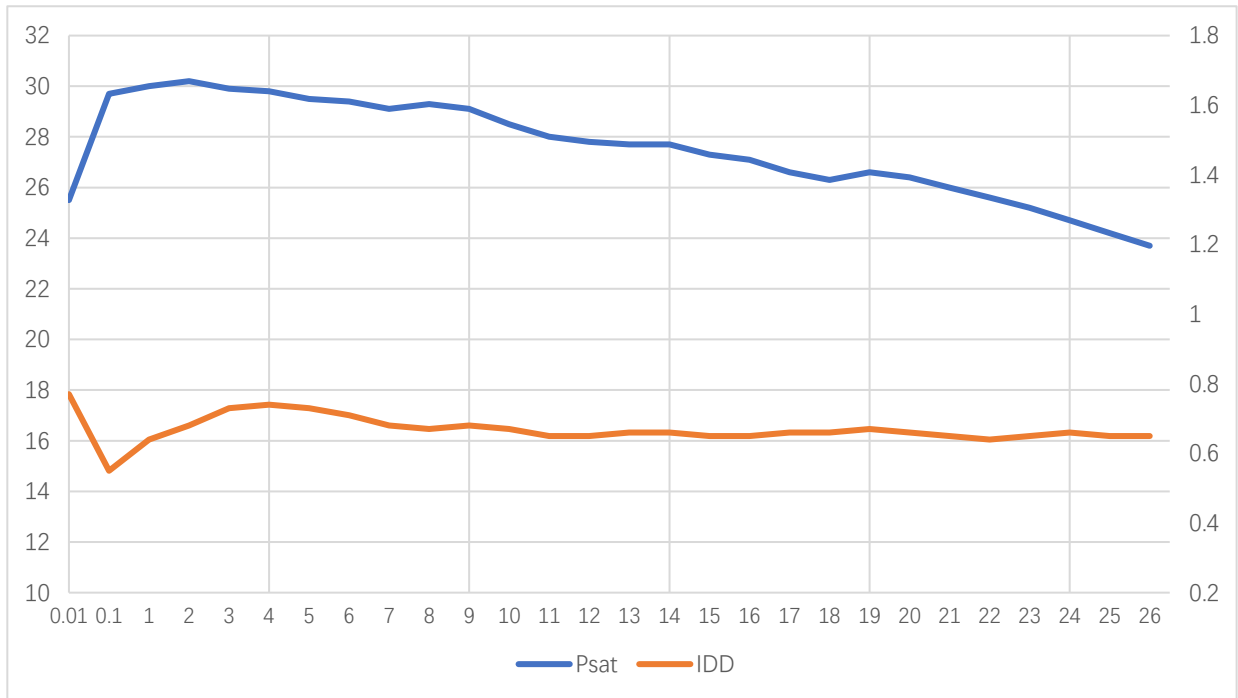
P3dB vs Frequency



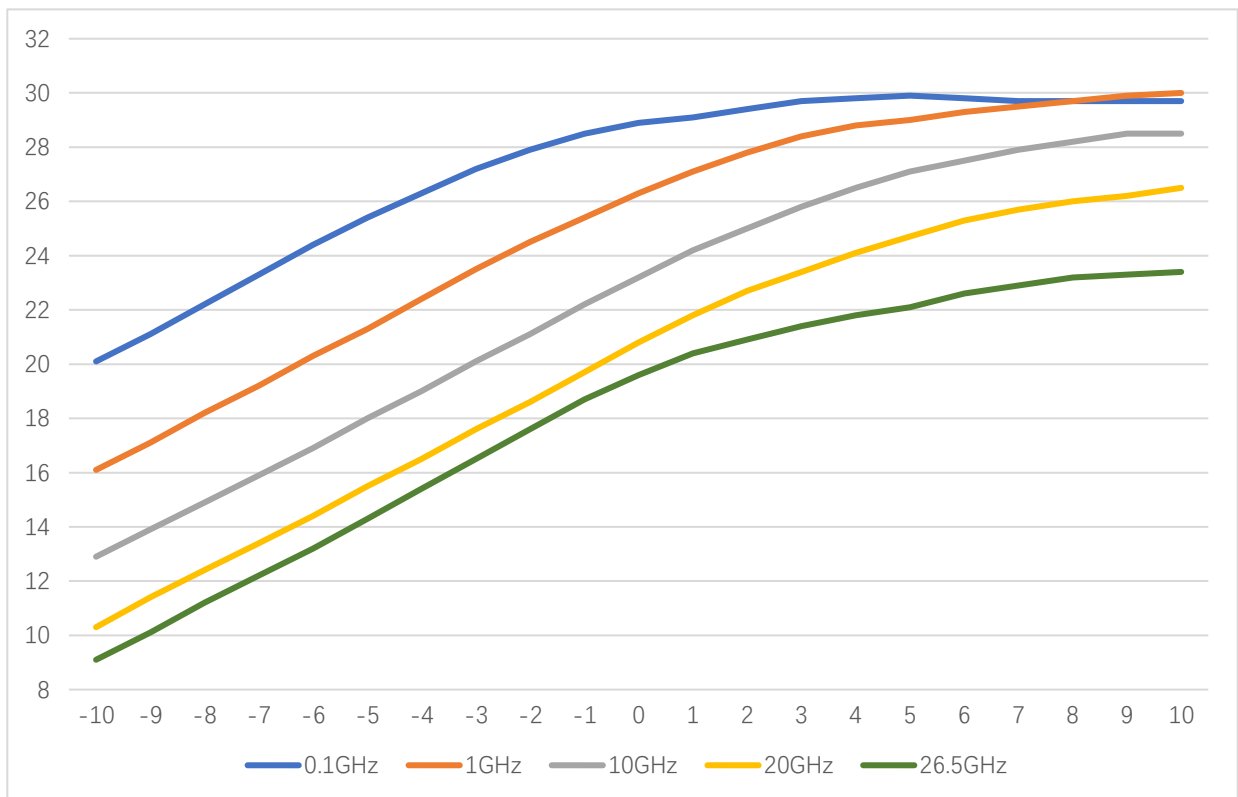


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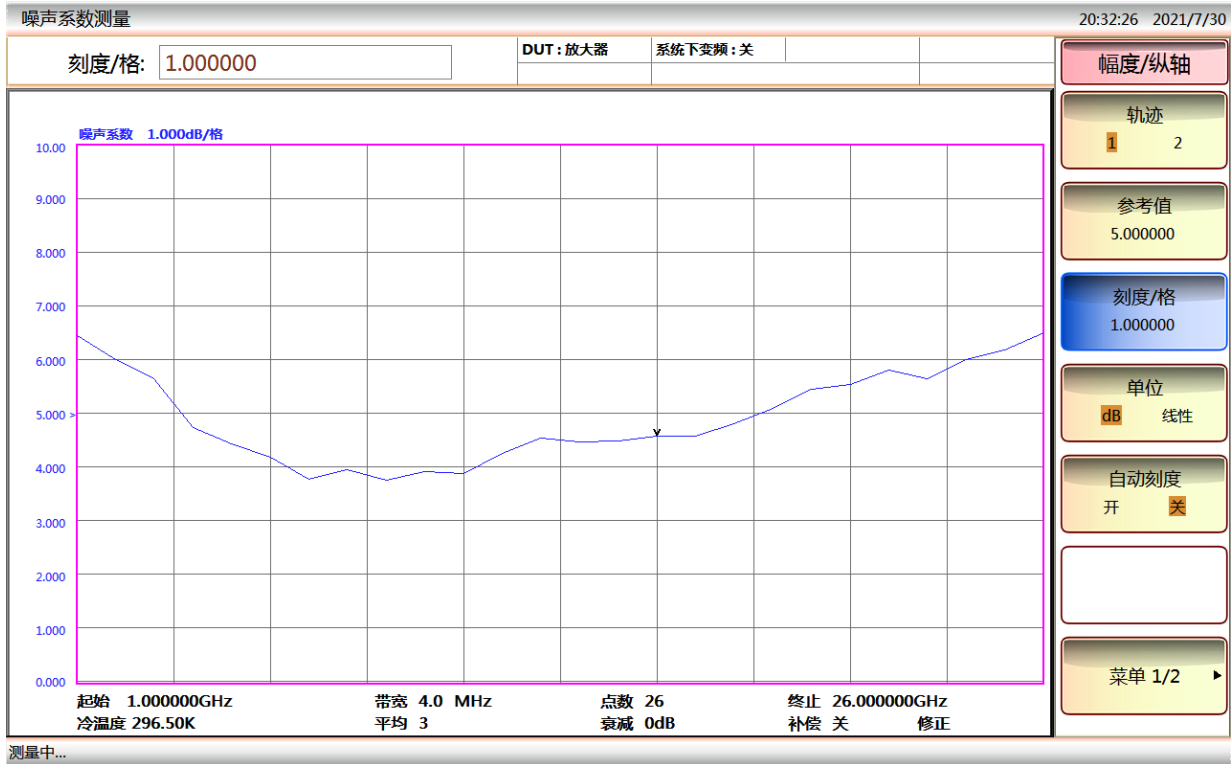


Psat and IDD vs Frequency



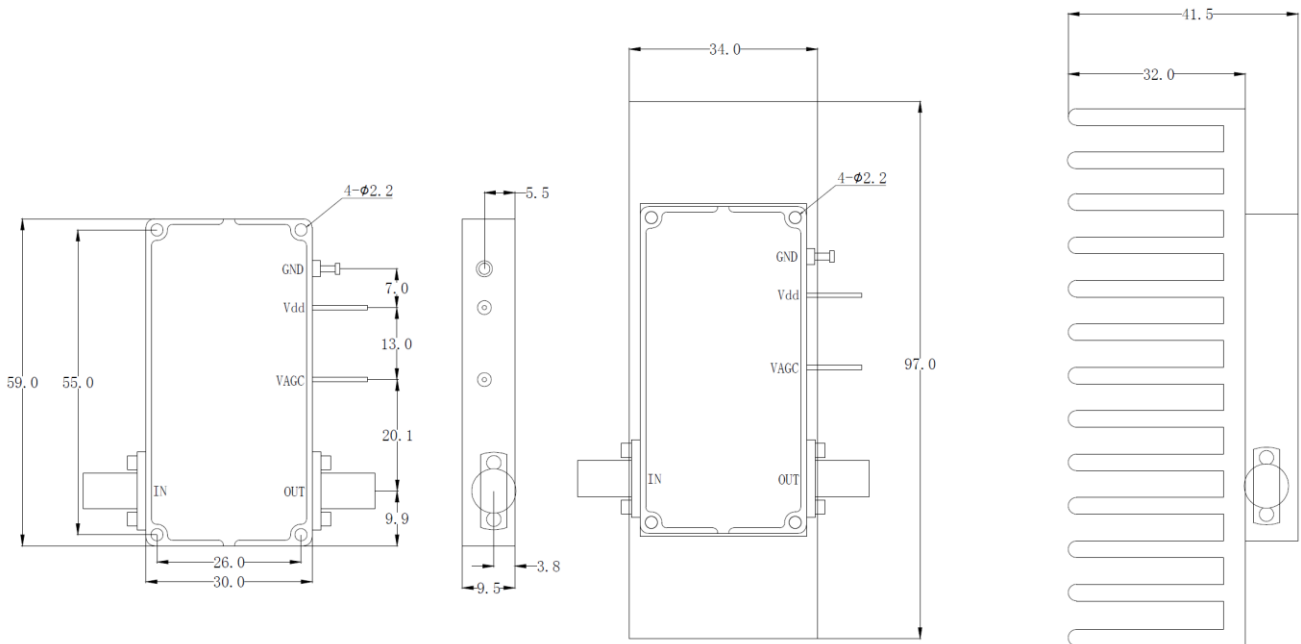
Pout vs Pin





NF vs Frequency

Dimension: (unit in mm)



Heat Sink Required During Operation

