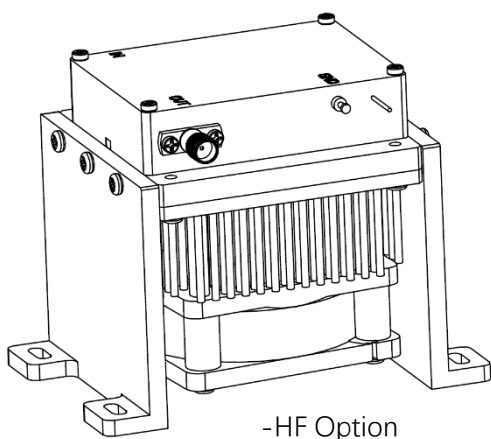


40-67GHz Broadband Amplifier, High Gain 39dB, High Power +34dBm



Product Overview

AT-PA-4067-3934VGNT is high gain power amplifier with +34dBm output power in the frequency of 40-67GHz. The DC power requirement is +20V/2.5A. Supply voltage can be from +20 to 22V. The module is with 1.85mm connector.

The power amplifier has high gain, high linearity, low input/output return loss and flat gain response. Performance will be slightly reduced beyond 60GHz.

More information, please visit www.atmicrowave.com

Advantages

- ✓ Frequency: 40-67GHz
- ✓ Pout: +34dBm
- ✓ Small signal gain: 39dB
- ✓ Single Power Supply

Application

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

Key Features

Parameter	Min	Typical	Max
Frequency		40-67GHz	
Gain	35dB 33dB	40-60GHz: 39dB 60-67GHz: 35dB	
P1dB		+29dBm	
Psat (40-60GHz)	+32dBm	+34dBm	
Drain Supply		+20V	+22V
Current/Quiescent		2.05A	
IDD Psat		2.5A	3.0A
Input Return Loss		-3dB	
Output Return Loss		-8dB	
Spec Temp		25C	





AT-PA-4067-3934VGNT

40-67GHz Power Amplifier

Mechanical Information

Item	Description
Input Port	1.85mm Female
Output Port	1.85mm Female
Case Material	Copper
Finish	Gold Plated
Weight (Without Heatsink)	230g
Size:	See outline

Absolute Maximum Ratings Table

Parameter	Value
Drain Supply	+24V
RF Input Power	+15 dBm
Operating Temperature	-40 to +85C
Storage Temperature	-50 to +125C

Notes:

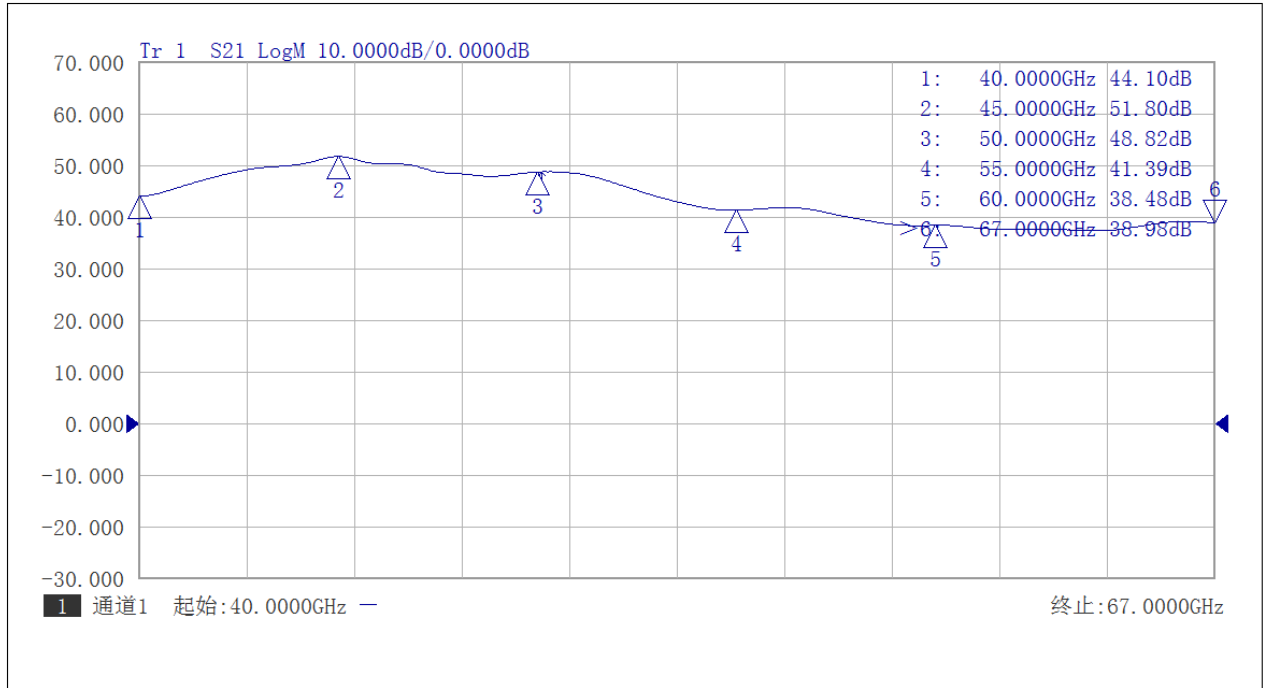
1. Datasheet may be changed according to update of MMIC, Raw materials , process, and so on.
2. This data is only for reference, not for guaranteed specifications.
3. Please contact AT Microwave team to make sure you have the most current data.

Part Number Selection

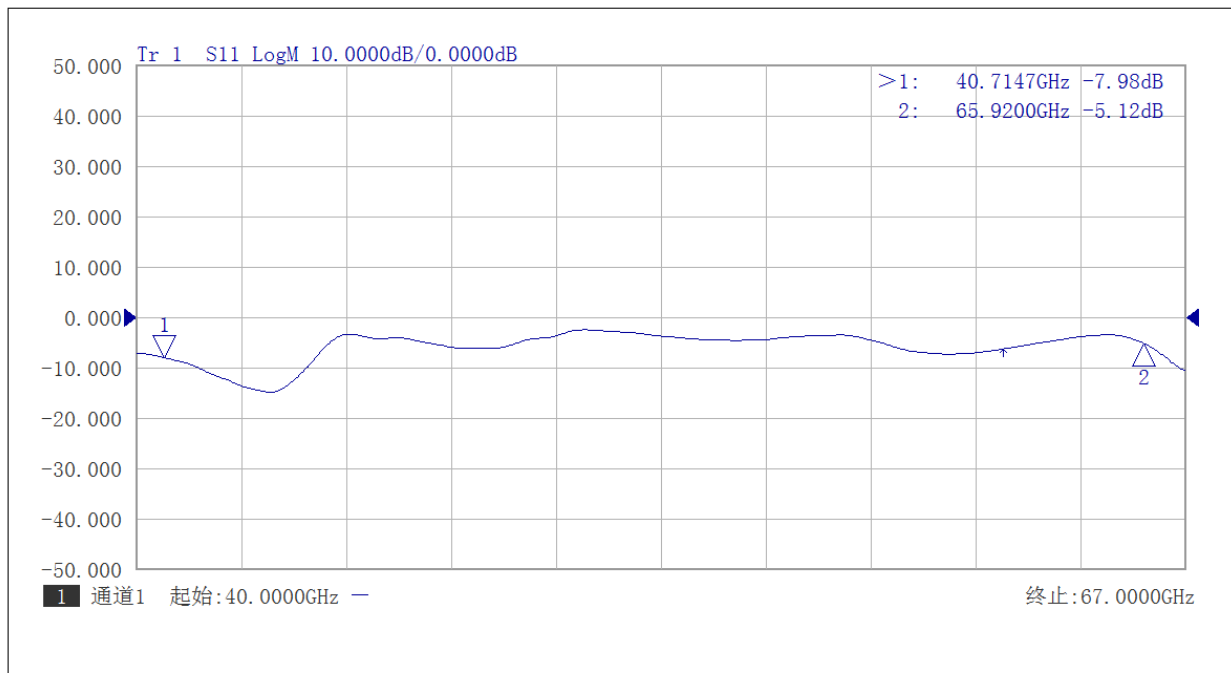
Item	Description
AT-PA-4067-3934VGNT	In defaulted without heatsink and Fan. Heatsink and Fan required during operation.
AT-PA-4067-3934VGNT -HF	Including Heatsink and Fan. Fan bias is connected with PA Module's Vdd supply
AT-PA-4067-3934VGNT -LCBT	<u>L</u> ow Cost, <u>C</u> ompact <u>B</u> ench- <u>T</u> op, Heatsink included. +220V Supply with AC/DC Adapter
AT- BT PA-4067-3934VGNT	Bench-top Option AC Power Supply Directly



Test Data(25C)

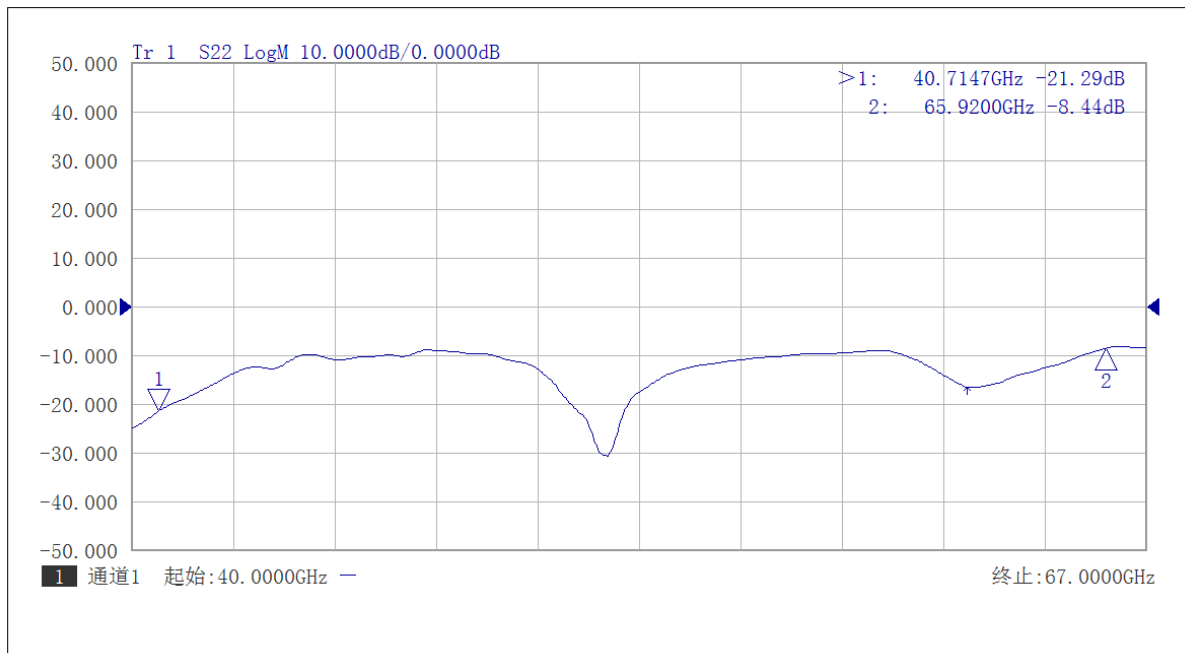


Gain vs Frequency

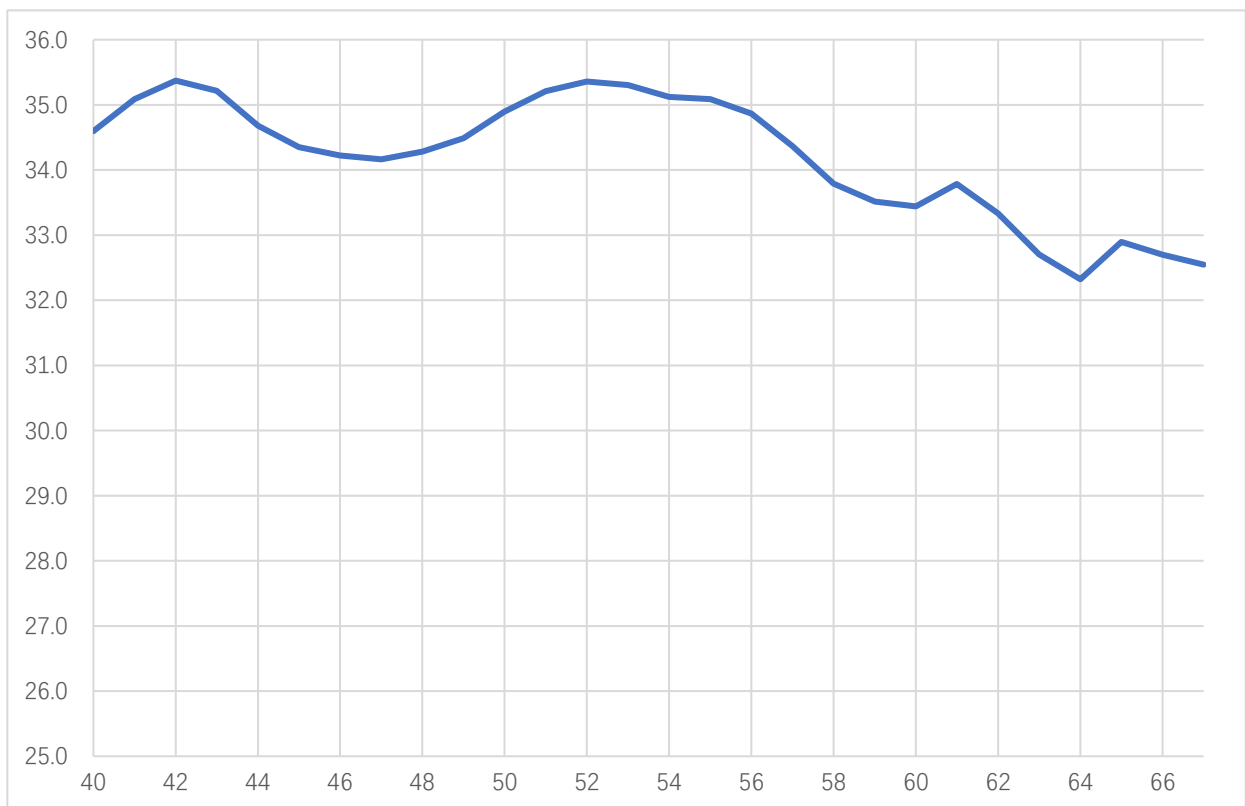


Input Return Loss vs Frequency





Output Return Loss vs Frequency



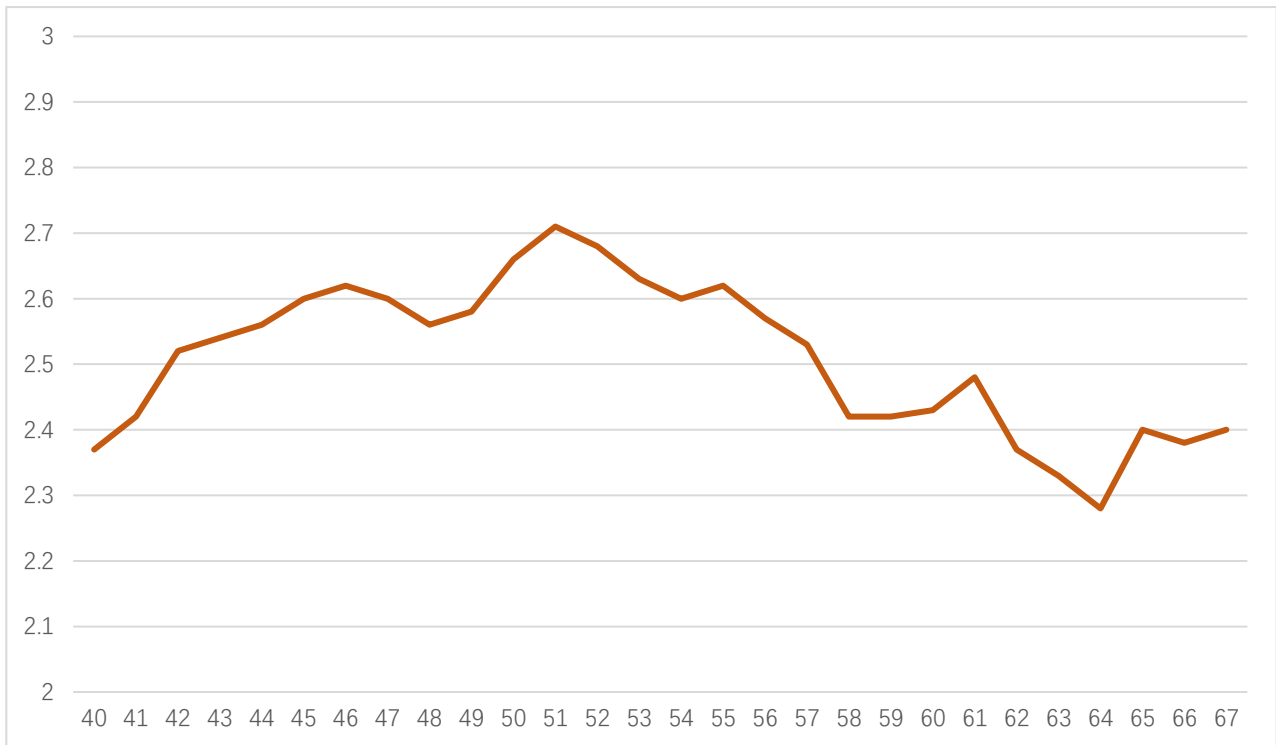
Pout vs Frequency





AT-PA-4067-3934VGNT

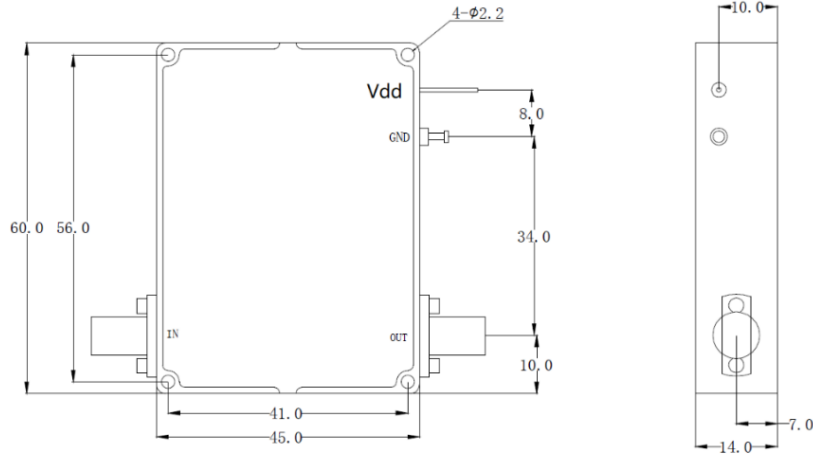
40-67GHz Power Amplifier



IDD at Psat



Dimension without Heatsink: (unit mm)

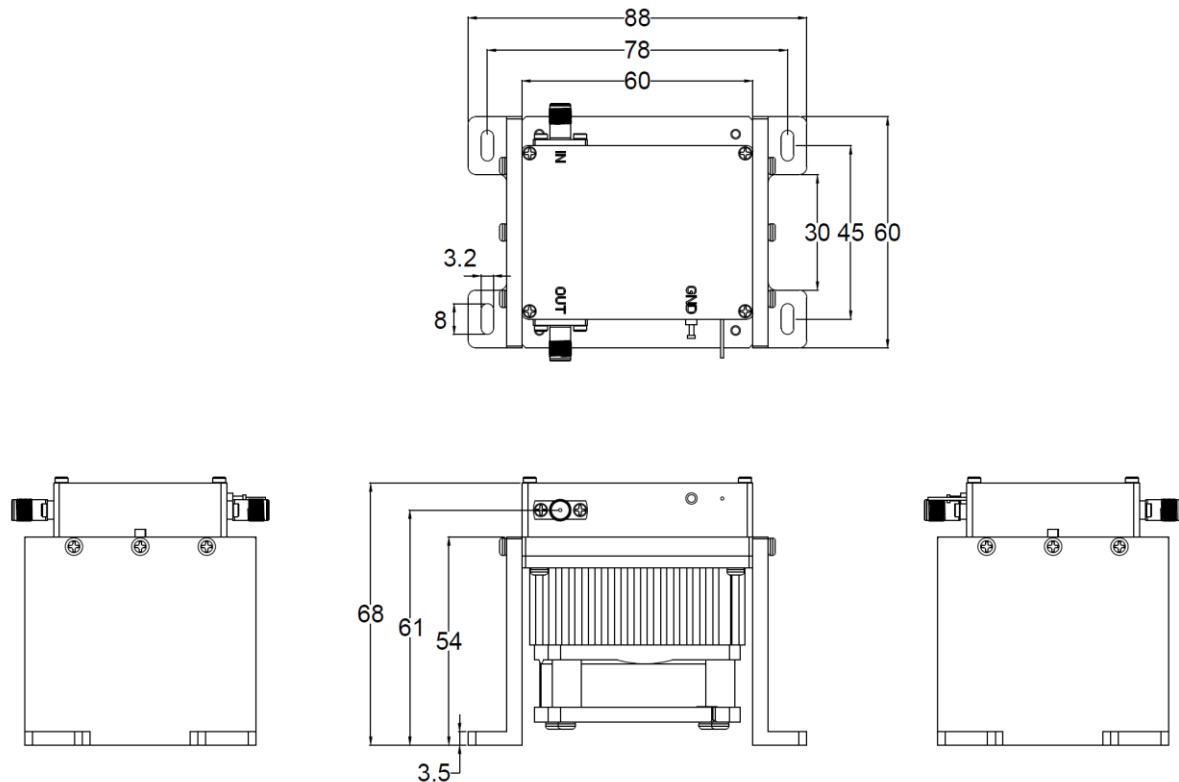


	<26.5GHz	<40GHz	<50GHz	<67GHz
Connector	SMA	2.92mm	2.4mm	1.85mm
Length of a	9.4mm	9.5mm	10.8mm	11.3mm

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

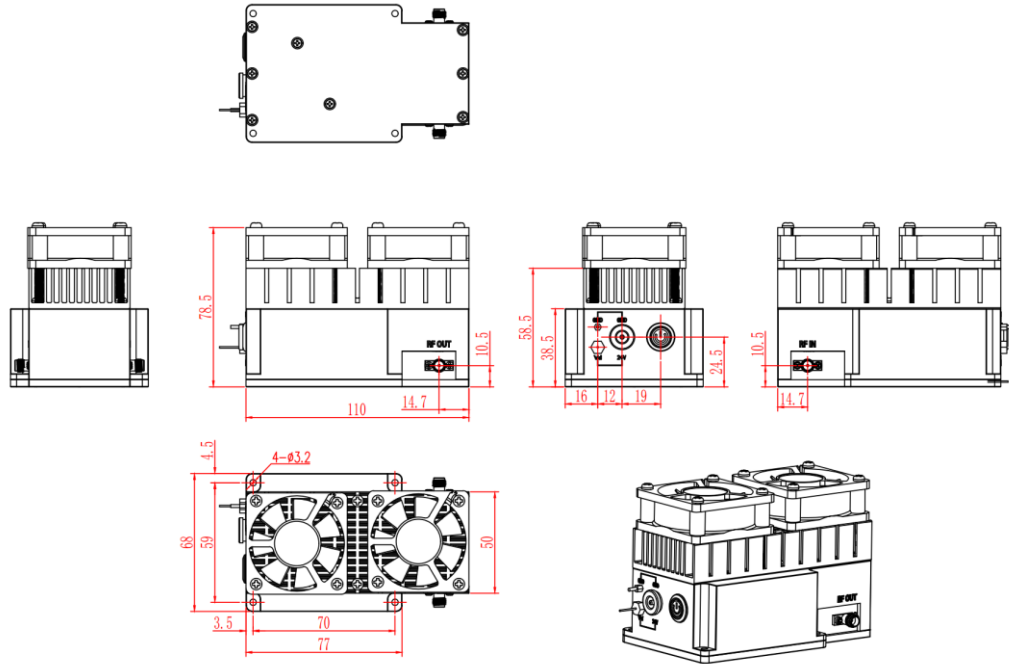
Outline without heatsink. Heat Sink Required During Operation

-HF Option Dimension with Heatsink and Fan: (unit mm)



-LCBT Option Dimension (unit mm)

Low Cost, Compact Bench-Top with 220V AC/DC Adapter



-BT Bench-top Dimension (unit mm)

