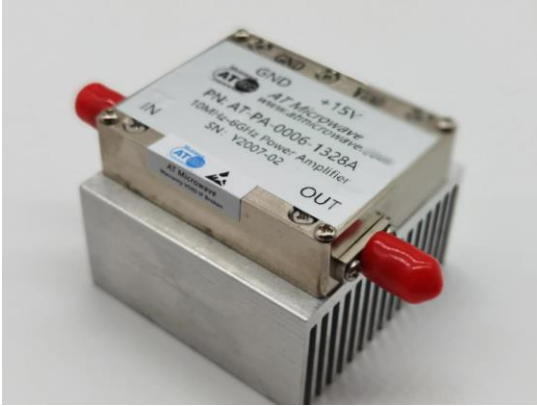


25MHz-6GHz Broadband Amplifier



Product Overview

AT-PA-0006-1328A is broadband amplifier from 25MHz-6GHz, with $P_{out}=+28dBm$. There are dc block capacitor inside both input and output ports. The DC power requirement is +12V/450mA. 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: 25MHz-6GHz
- ✓ $P_{sat}:+28dBm$
- ✓ Small signal gain: 13dB
- ✓ Simple Power Supply

Application

- ✓ EW Application
- ✓ Test Equipment
- ✓ ROF (RF Over Fiber)
- ✓ Radar System

Key Features

Parameter	Min	Typical	Max
Frequency		25MHz-6GHz	
Gain		13dB	
P1dB		+27dBm	
Psat		+28dBm	
Drain Supply		+12V	+15V
Current		450 mA	
NF		6dB	
Input Return Loss		-10dB	
Output Return Loss		-10dB	
Spec Temp		25C	





AT-BB-0006-1328A

25MHz-6GHz Broadband Amplifier

Mechanical Information

Item	Description
Input Port	SMA Female
Output Port	SMA Female
Case Material	Copper
Finish	Nickel Plated
Weight (Without Heatsink)	150g
Size:	50x40x12 mm

Absolute Maximum Ratings Table

Parameter	Value
Drain Supply	+16V
RF Input Power	+23 dBm
Operating Temperature	-20 to +70C
Storage Temperature	-65 to +150C

Caution:

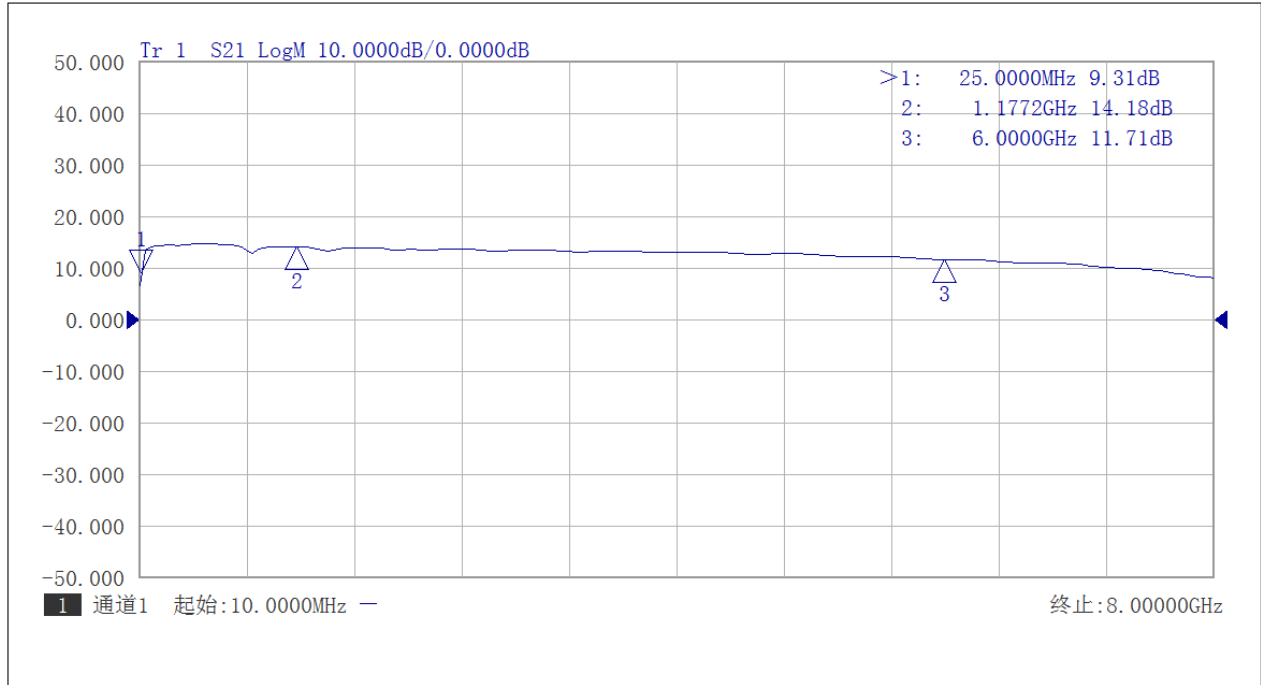
Please pay attention to the case temperature. If case temperature exceed higher than +50C, heat sink and fan are required, or the amplifier may be damaged.

Notes:

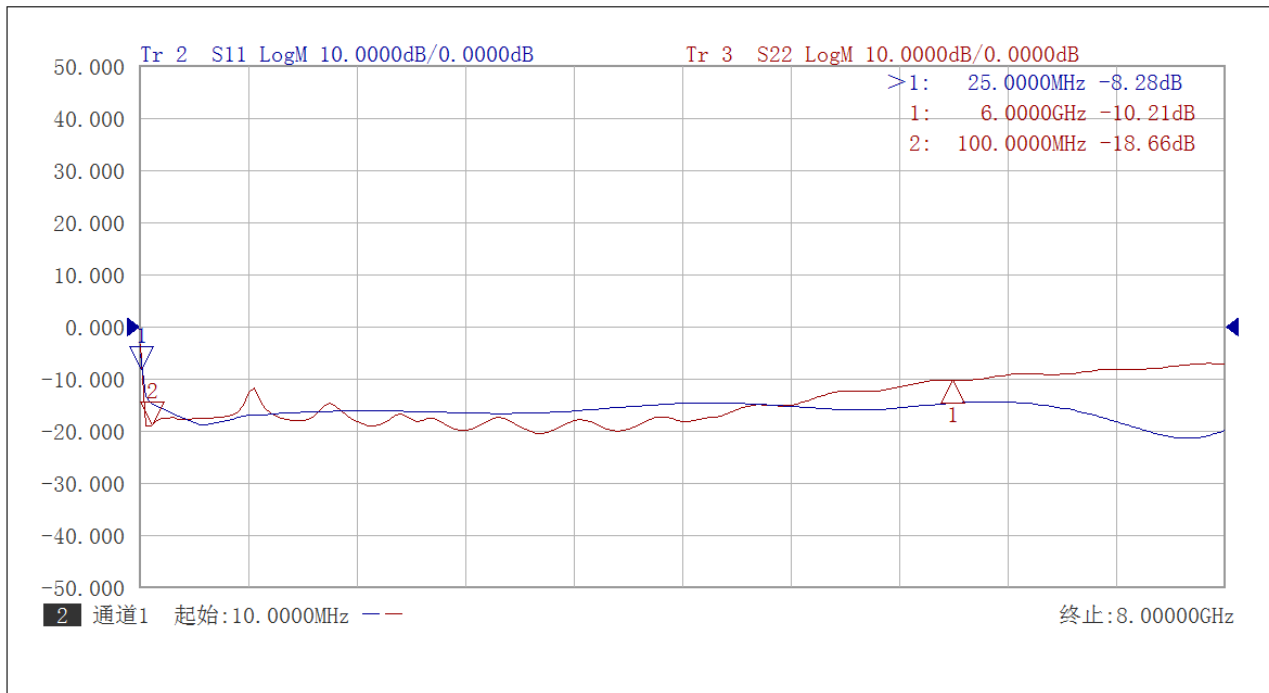
1. Datasheet may be changed according to update of MMIC, Raw materials , process, and so on.
2. This data is only for reference, not for guaranteed specifications.
3. Please contact AT Microwave team to make sure you have the most current data.



Test Data:



Gain vs Frequency



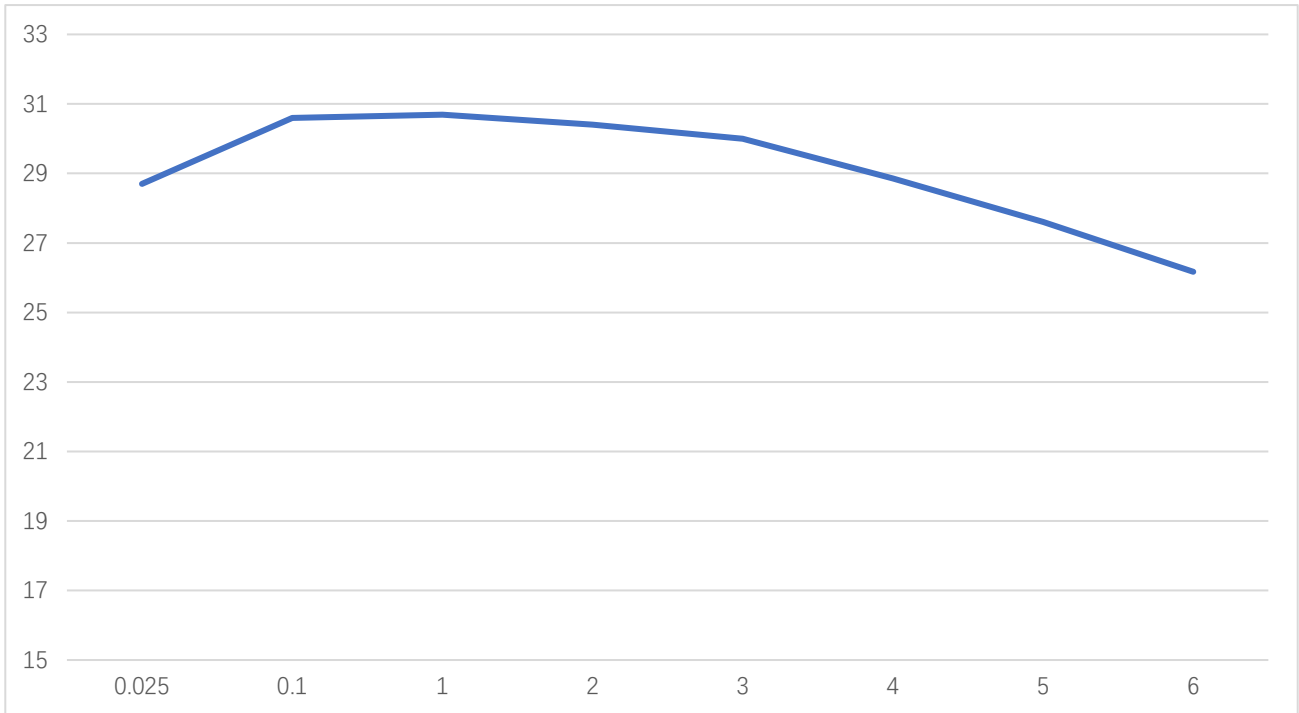
Input and Output Return Loss vs Frequency



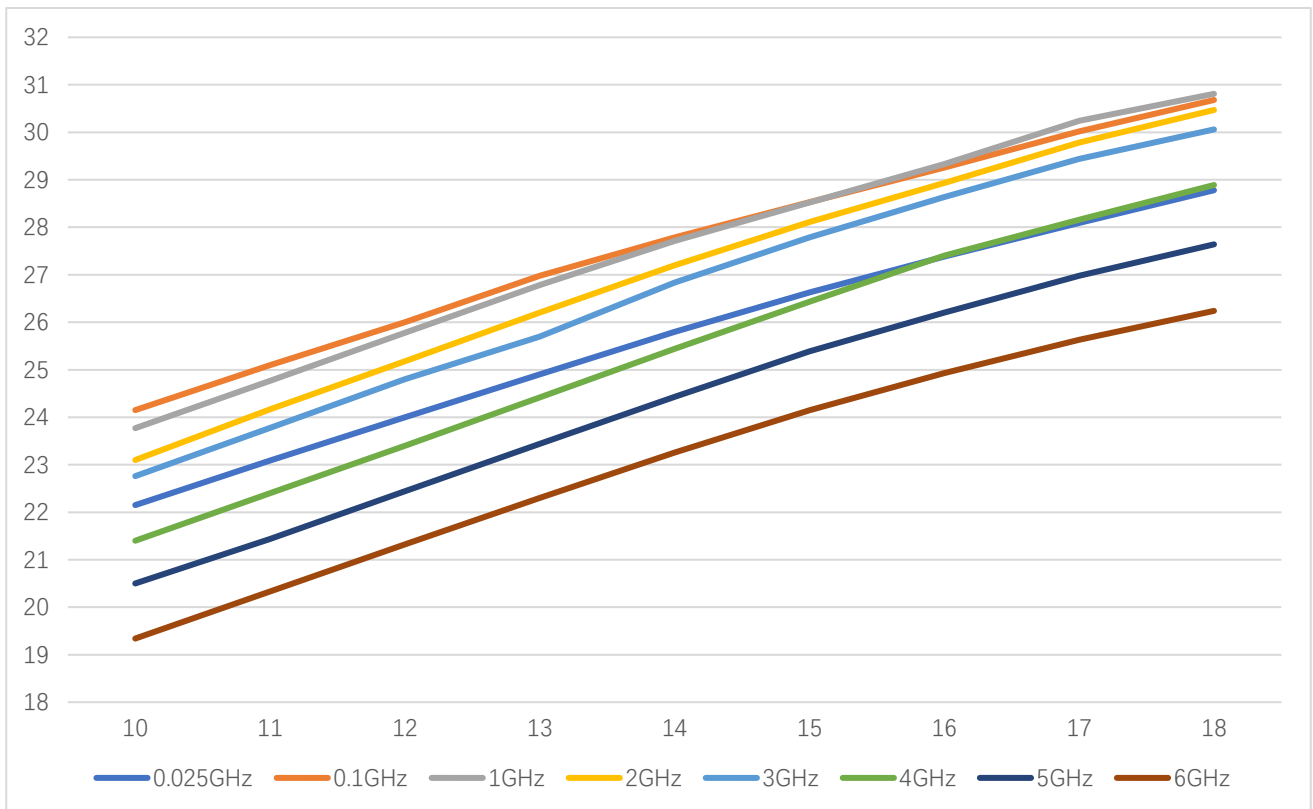


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25MHz-6GHz Broadband Amplifier



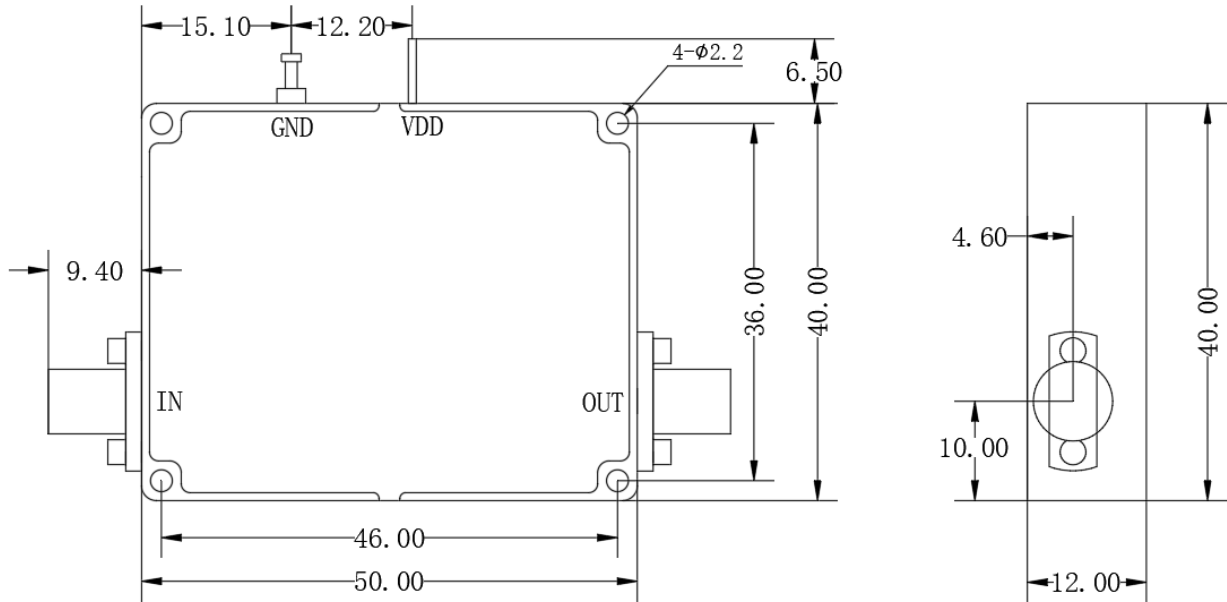
Pout vs Frequency at Pin=+17dBm



Pout vs Pin at Different Frequencies



Dimension: (unit in mm)



In millimetres

The 9.4 size marked is used SMA female connector
if use 2.92mm female connector the size is 9.5

Heat Sink Required During Operation

