Rack mount Power Amplifier
2.0 – 6.0GHz 100W (CW)

AM206050SY-7H
October 2025
Preliminary

DESCRIPTION

AMCOM's AM206050SY-7H is a rack mount amplifier with AC power supply (110-240VAC). Remote control with Ethernet or by display. It operates from 2 to 6GHz and delivers 100W CW output power and has a small signal gain of 50dB. The gain is 30dB adjustable. It is a air cooled amplifier. The amplifier has temperature, current, power monitoring.



FEATURES

- Broadband from 2.0 to 6.0GHz
- Power handling is 100W CW
- Gain adjustable 30dB
- Remote control through Ethernet or by display

APPLICATIONS

- EMC
- Instrumentation
- Lab Measurements
- C-band satcom uplink

TYPICAL PERFORMANCE *

Parameters	Minimum	Typical	Maximum
Frequency		2.0 – 6.0GHz	
Gain (Small signal)	30dB	50dB	60dB
Gain Flatness		+/-1.5dB	
Output Power at 1dB compression		45dBm	
Output Power at P7dB		50dBm	
Input return loss	-5dB	-12dB	
Output return loss	-9dB	-13dB	
Gain setting		30dB	
Psat	48.5dBm	50dBm	
Output third order intercept point		50	
Line Supply(50/60Hz)		110-240VAC	
Power Consumption		600W	800W

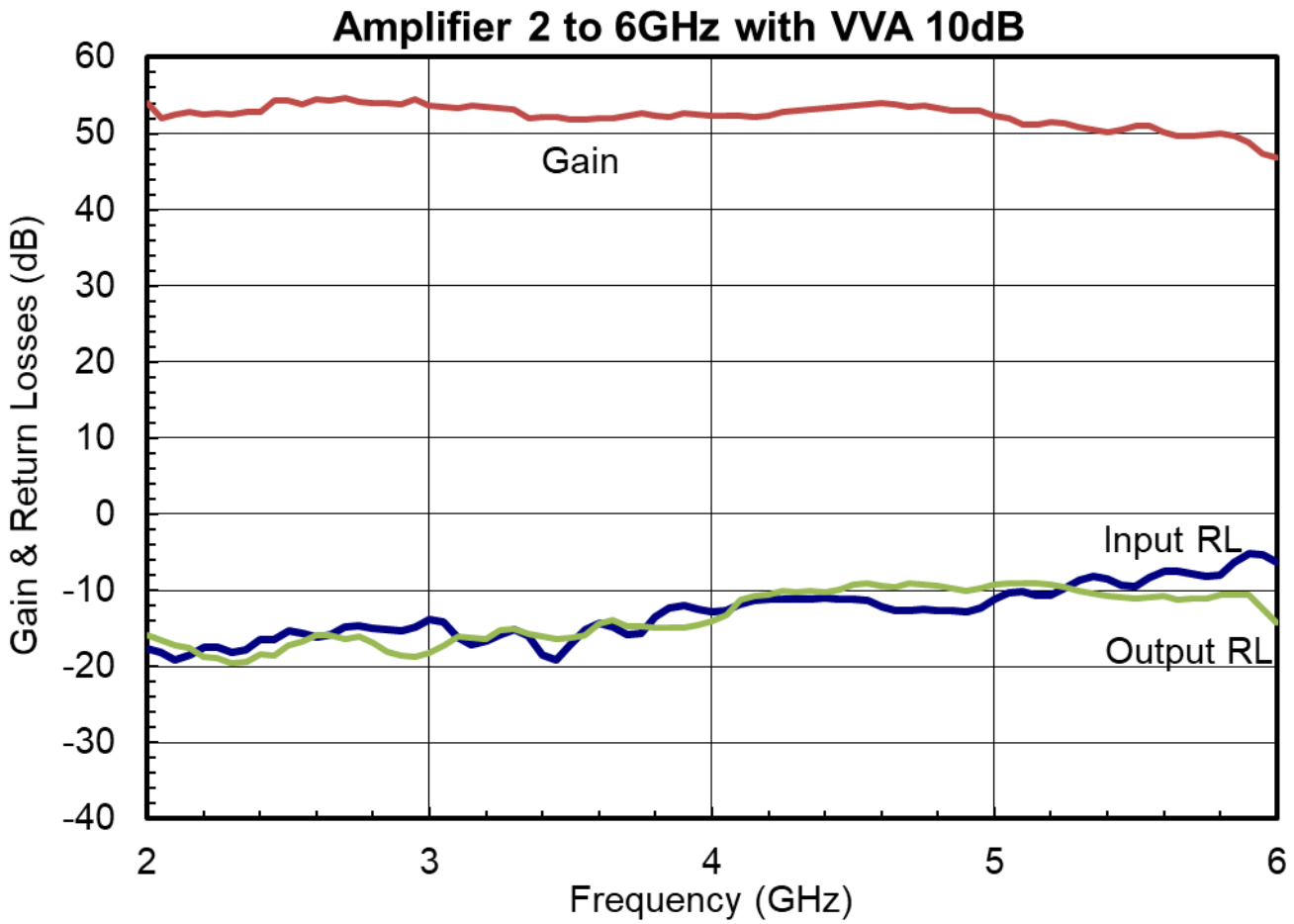
*Specifications subject to change without notice

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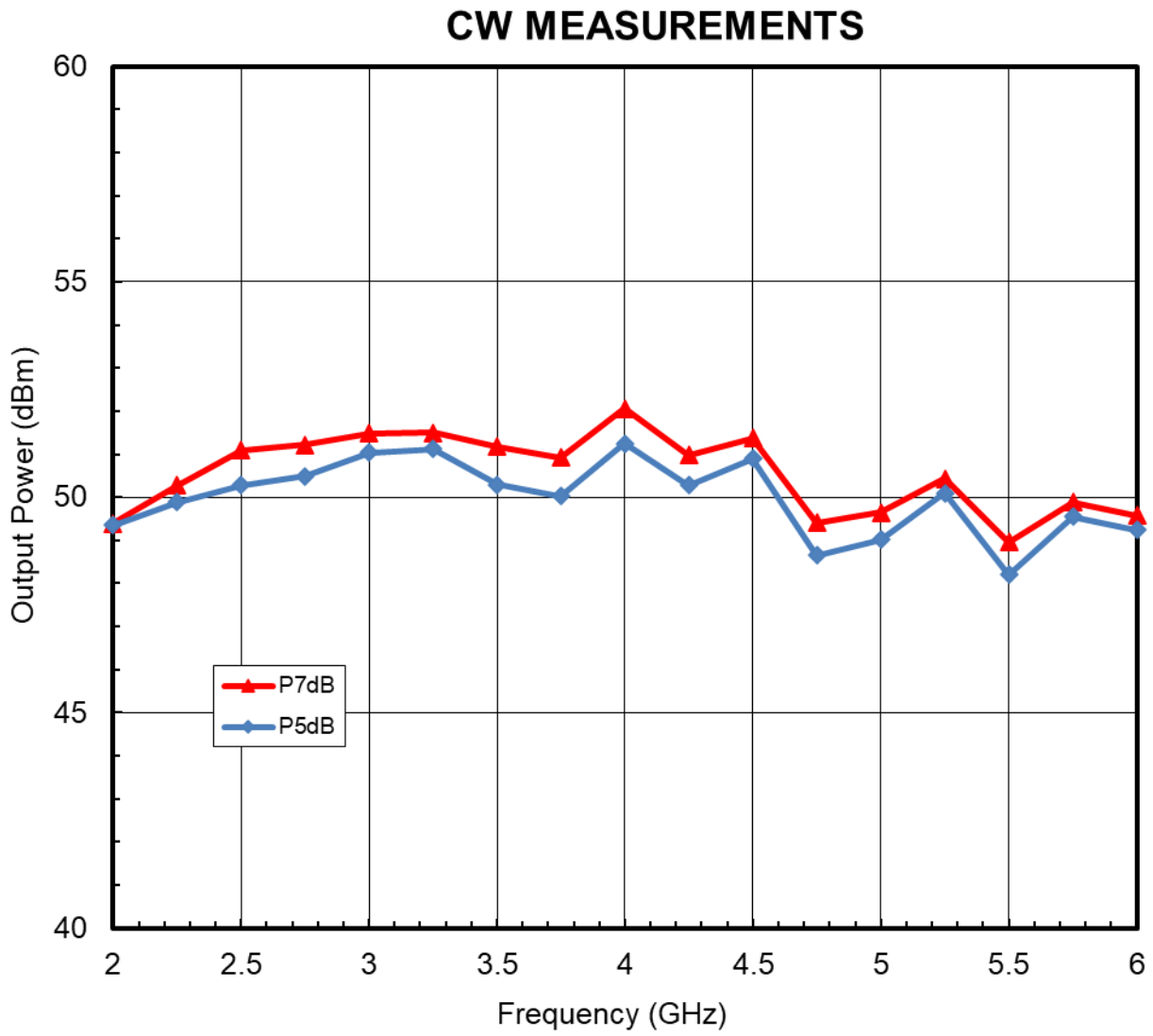
ABSOLUTE MAXIMUM RATING

Parameters	Symbol	Rating
Supply Voltage	V	110-240VAC
RF Power (CW)	Pin	15dBm
Ambient Temperature		60°C
Storage Temperature		-40°C to 125°C

SMALL SIGNAL DATA



POWER


CW MEASUREMENTS
Output Power (dBm)
60
55
50
45
40
2
2.5
3
3.5
4
4.5
5
5.5
6
Frequency (GHz)
P7dB
P5dB

AMPLIFIER OUTLINE

DIMENSIONS in mm

