



## TYPICAL CHARACTERISTICS ON PTB-30-7G9G-5R0-20-120-240-VAC-SFF

PL35369/2203

PMI MODEL PTB-30-7G9G-5R0-20-120-240-VAC-SFF IS A PORTABLE AMPLIFIER THAT OPERATES OVER THE 7 TO 9 GHz FREQUENCY RANGE. THIS MODEL PROVIDES 30 dB OF TYPICAL GAIN WITH AN OP1dB OF +20 dBm. THIS AMPLIFIER FEATURES AN ON/OFF SWITCH THAT IS LOCATED ON THE FRONT PANEL.



20-Jan-22  
Tested By: Hugo Gonzales  
Reported by: Hugo Gonzales



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## Technical Sheet

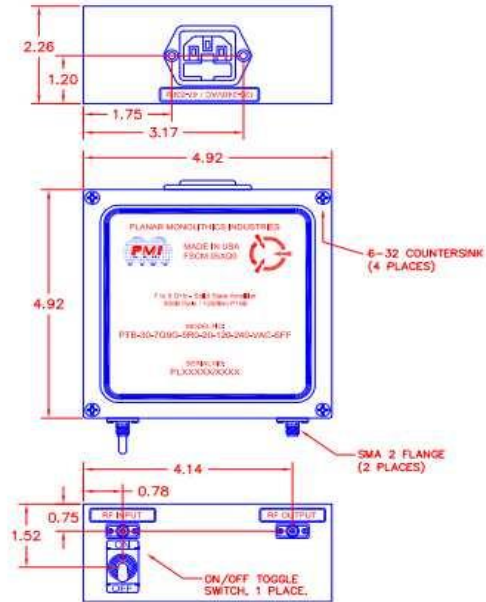
### DESCRIPTION

PMI MODEL PTB-30-7G9G-5R0-20-120-240-VAC-SFF IS A PORTABLE AMPLIFIER THAT OPERATES OVER THE 7 TO 9 GHz FREQUENCY RANGE. THIS MODEL PROVIDES 30 dB OF TYPICAL GAIN WITH AN OP1dB OF +20 dBm. THIS AMPLIFIER FEATURES AN ON/OFF SWITCH THAT IS LOCATED ON THE FRONT PANEL.

### SPECIFICATIONS

- FREQUENCY RANGE: \_\_\_\_\_ 7.0 TO 9.0 GHz
- GAIN: \_\_\_\_\_ +30 dB NOM
- GAIN FLATNESS: \_\_\_\_\_ ±1.5 dB TYP
- NOISE FIGURE: \_\_\_\_\_ 5.0 dB MAX
- OP1dB: \_\_\_\_\_ +20 dBm MIN
- VSWR (IN/OUT): \_\_\_\_\_ 2.0:1 MAX
- CONNECTORS (IN/OUT): \_\_\_\_\_ SMA FEMALE
- AC VOLTAGE SUPPLY: \_\_\_\_\_ 120-240 VAC, 47-63 Hz, 15W MAX  
\*SUPPLIED WITH FUSE AND 6 FOOT POWER CORD
- SIZE \_\_\_\_\_ (L) 4.92" X (W) 4.92" X (H) 2.26"
- FINISH \_\_\_\_\_ BLUE POWDER COATED

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	—	PRELIMINARY	8/19/2021	
	1	AC POWER	8/19/2021	
	A1	ORIGINAL RELEASE	11/15/2021	



PMI CONFIDENTIAL AND PROPRIETARY

### ENVIRONMENTAL RATINGS

- TEMPERATURE: \_\_\_\_\_ -40 °C TO +85 °C (OPERATING)  
\_\_\_\_\_ -40 °C TO +100 °C (NON-OPERATING)
- HUMIDITY: \_\_\_\_\_ MIL-STD-202F, METHOD 103B COND. B
- SHOCK: \_\_\_\_\_ MIL-STD-202F, METHOD 213B COND. B
- VIBRATION: \_\_\_\_\_ MIL-STD-202F, METHOD 204D COND. B
- ALTITUDE: \_\_\_\_\_ MIL-STD-202F, METHOD 105C COND. B
- TEMPERATURE CYCLE: \_\_\_\_\_ MIL-STD-202F, METHOD 107D COND. A

NOTE: SPECIFICATIONS WILL VARY OVER OPERATING TEMPERATURE  
NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION

NOTES:  
1) DIMENSIONS ARE IN INCHES  
2) TOLERANCES: X.XX ±0.020  
X.XXX ±0.010

### PLANAR MONOLITHICS INDUSTRIES, INC.

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ISO 9001 CERTIFIED



APPROVALS		DATE	TITLE			REV.
DRAWN	<i>JPH</i>	8/19/21	PRODUCT FEATURE			
REDRAWN			PTB-30-7G9G-5R0-20-120-240-VAC-SFF			
ISSUED			SIZE	FSQM NO.	DWG NO.	
			A	05XQ0	27043100	A1
			SCALE	N: S	SHEET	1 OF 1



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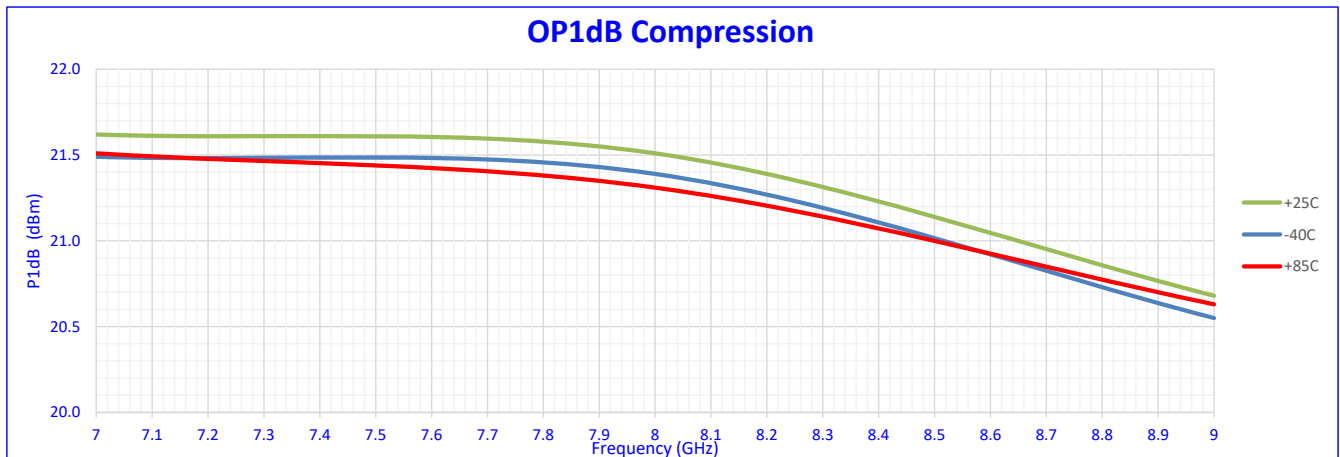
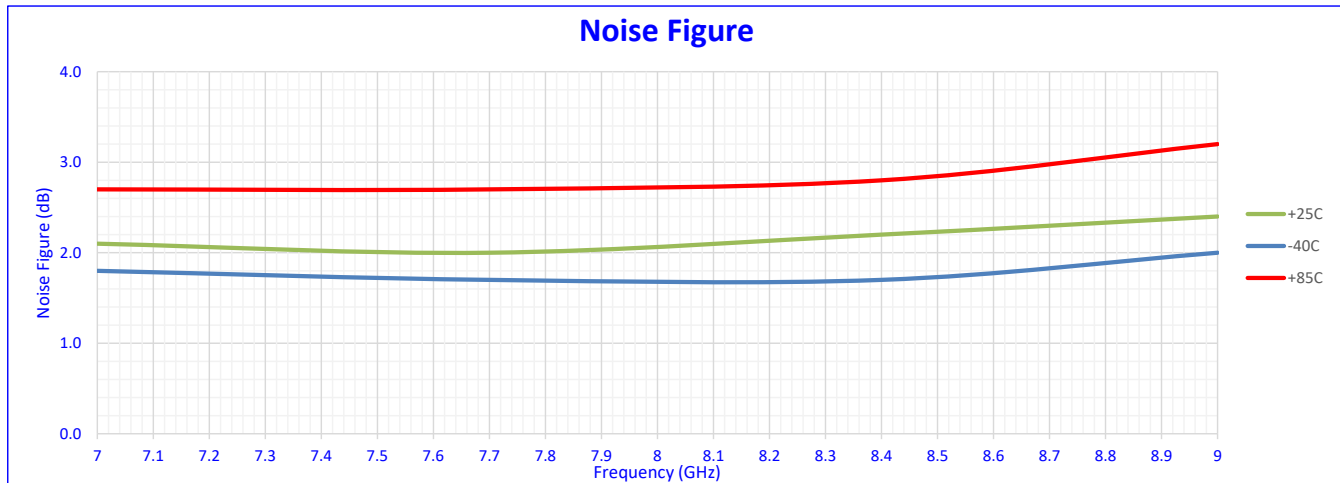
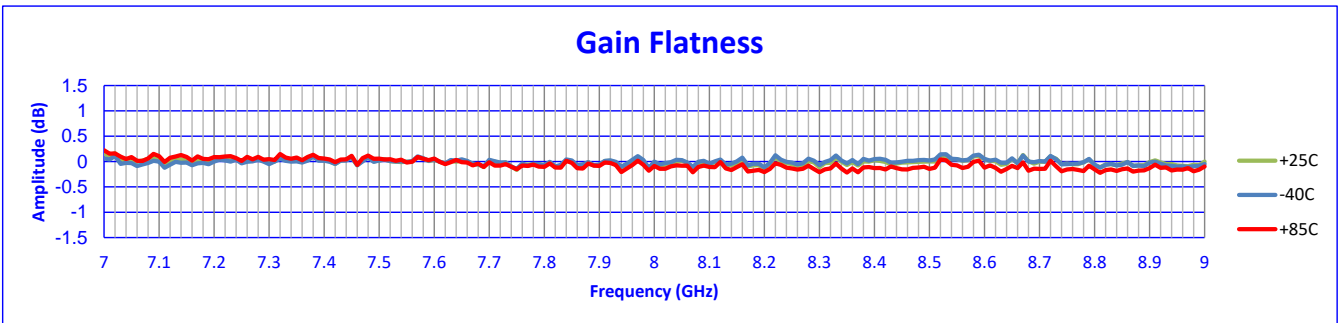
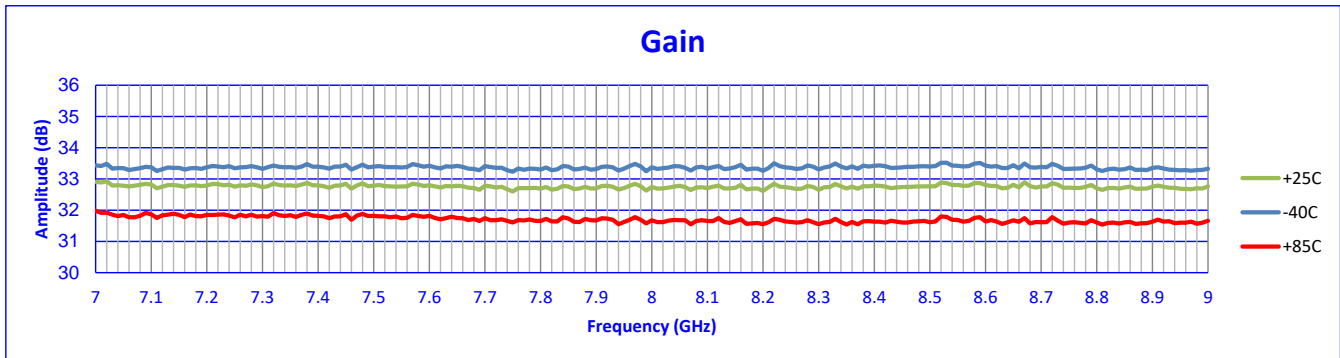
## Technical Specifications Over Temperature

TEST ITEM NO.	PARAMETERS	SPECIFIED VALUE	Test Results	QA QC	
1	Frequency Range:	7.0 - 9.0 GHz	7.0 - 9.0 GHz See Plot		
2	Gain:	30 dB Nom.	-40°C	+33.5 dB Max.+33.2 dB Min.	
			+25°C	+32.9 dB Max.+32.6 dB Min.	
			+85°C	+32 dB Max.+31.5 dB Min.	
			See Plot		
3	Gain Flatness:	±1.5 dB Typ.	-40°C	±0.14 dB	
			+25°C	±0.16 dB	
			+85°C	±0.22 dB	
			See Plot		
4	Noise Figure:	5 dB Max.	-40°C	2 dB	
			+25°C	2.4 dB	
			+85°C	3.2 dB	
			See Plot		
5	OP1dB:	+20dBm Min.	-40°C	20.6 dB	
			+25°C	20.7 dB	
			+85°C	20.6 dB	
			See Plot		
6	VSWR: (IN/OUT)	2.0:1 Max.	-40°C	1.4:1 In 1.3:1 Out	
			+25°C	1.4:1 In 1.3:1 Out	
			+85°C	1.4:1 In 1.3:1 Out	
			See Plot		
7	AC Voltage Supply:	120-240 VAC, 47-63 Hz, 15W Max.	-40°C	120-240 VAC, 47-63 Hz 6.5W	
			+25°C		
			+85°C		



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