



**Typical Characteristics  
on  
PTB-60-120-5R0-10-220VAC-SFF**

PMI MODEL PTB-60-120-5R0-10-220VAC-SFF IS A PORTABLE AMPLIFIER THAT OPERATES OVER THE 1.0 TO 20.0 GHz FREQUENCY RANGE. THIS MODEL PROVIDES 60 dB OF TYPICAL GAIN WITH AN OP1dB OF +10 dBm MINIMUM. THIS AMPLIFIER FEATURES AN ON/OFF SWITCH THAT IS LOCATED ON THE FRONT PANEL. THIS UNIT OPERATES ON 220 TO 230 VAC AND IS SUPPLIED WITH A 6 FOOT STANDARD EU 2-PRONG STYLE POWER CORD.



March 3, 2017  
Designed by: PMI Engineering  
Reported by: Kevin Mansfield



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## DESCRIPTION

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## SPECIFICATIONS

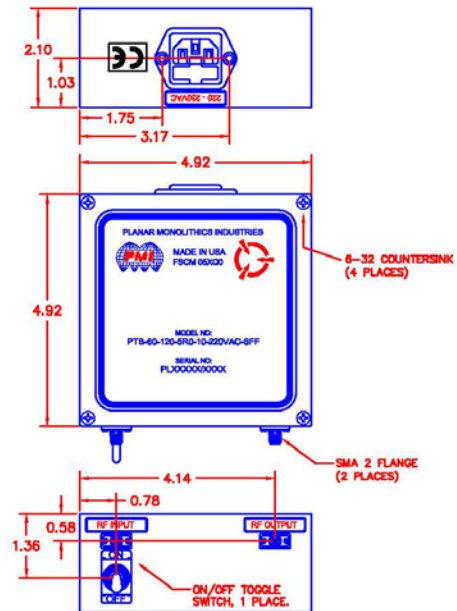
- FREQUENCY RANGE: \_\_\_\_\_ 1.0 TO 20.0 GHz
- GAIN: \_\_\_\_\_ +60 dB TYP
- GAIN FLATNESS: \_\_\_\_\_ ±3.0 dB TYP
- NOISE FIGURE: \_\_\_\_\_ 5.0 dB MAX
- OP1dB: \_\_\_\_\_ +10 dBm MIN
- VSWR (IN/OUT): \_\_\_\_\_ 2.0:1 MAX
- CONNECTORS (IN/OUT): \_\_\_\_\_ SMA FEMALE
- AC VOLTAGE SUPPLY: \_\_\_\_\_ 220 to 230 VAC  
\*SUPPLIED WITH A 6 FOOT STANDARD EU 2-PRONG STYLE POWER CORD
- SIZE \_\_\_\_\_ (L) 4.92" X (W) 4.92" X (H) 2.10"
- FINISH \_\_\_\_\_ BLUE POWDER COATED

## 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

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	1	ORIGINAL RELEASE	11/18/15	
	A1	ECN # 17-0031	02/25/17	



PMI CONFIDENTIAL AND PROPRIETARY

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ISO 9001 CERTIFIED



NOTES:  
1) DIMENSIONS ARE IN INCHES  
2) TOLERANCES: 0.300 ±0.020  
3.000 ±0.010

APPROVALS	DATE	TITLE		
DRN	11/18/15	PRODUCT FEATURE		
REV		PTB-60-120-5R0-10-220VAC-SFF		
REV		SIZE: FROM NO.	DWG NO.	REV.
		A 05XQ0	27028022	A1
SCALE: N: S		SHEET		1 OF 1

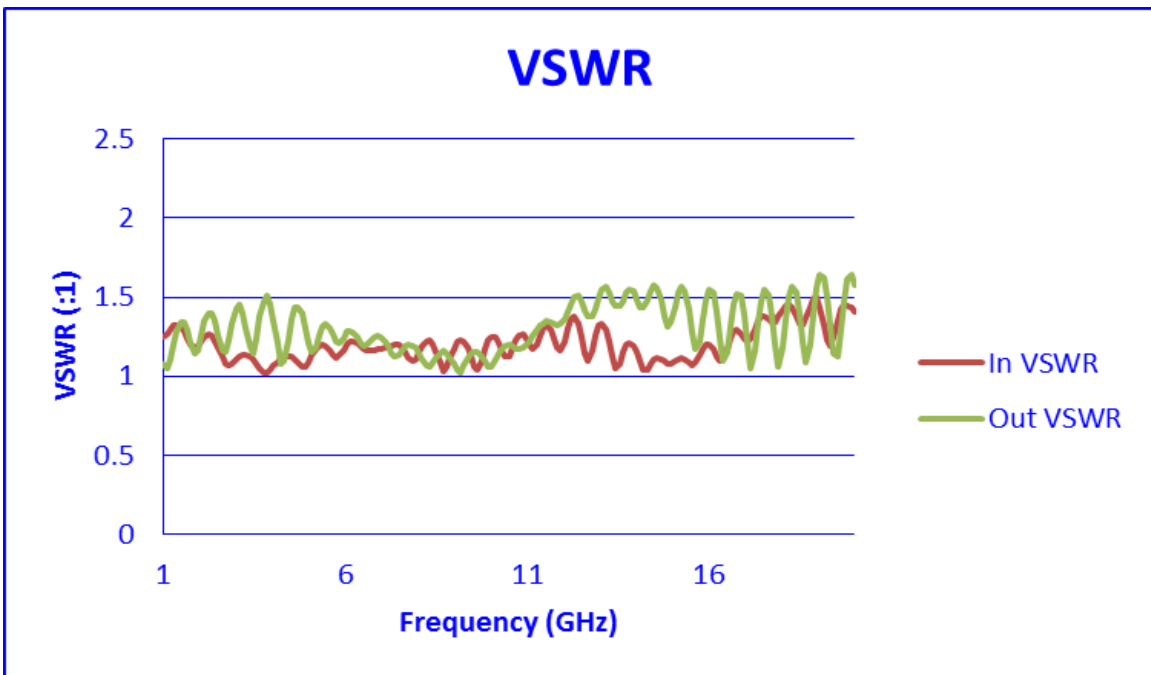
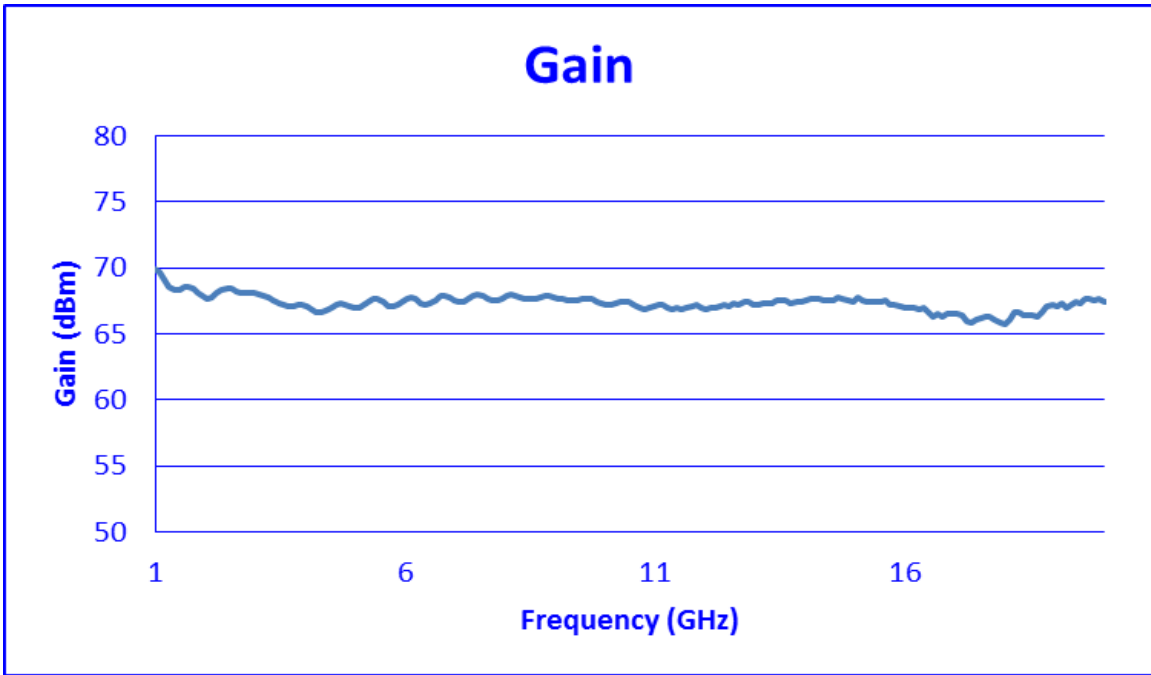


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TEST ITEM NO.	PARAMETERS	SPECIFIED VALUE	MEASURED VALUE	QA/QC
1	Frequency Range	1.0 TO 20.0 GHz	1.0 to 20.0 GHz (See Plot)	
2	Gain	60 dB Typ	66 dB (See Plot)	
3	Gain Flatness	±3.0 dB Typ	±2.1 dB (See Plot)	
4	Noise Figure	5.0 dB Max	4.7 dB (See Plot)	
5	OP1dB	+10 dBm Min	+13 dBm (See Plot)	
6	VSWR In/Out	2.0:1 Max	1.5:1 In 1.7:1 Out (See Plot)	
7	AC Voltage Supply	220 – 230 VAC	Pass	

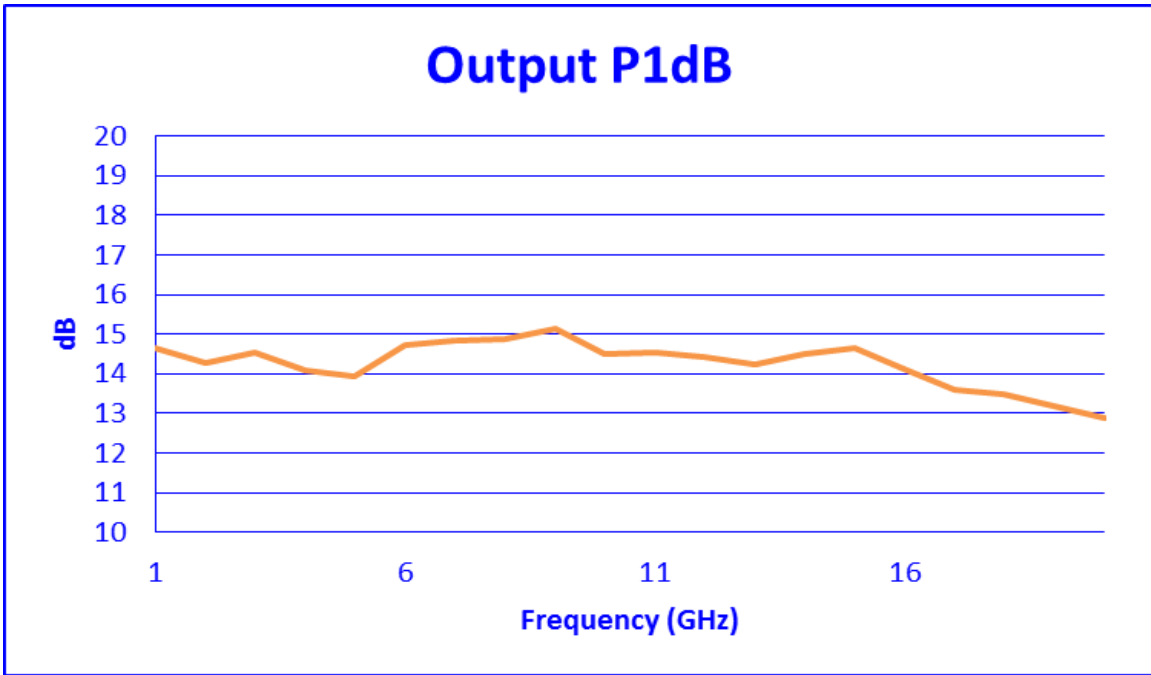


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### Noise Figure

