



**TYPICAL CHARACTERISTIC REPORT  
ON  
PTB-30-2040-5R0-10-100VAC-292FF**

**PMI MODEL PTB-30-2040-5R0-10-100VAC-292FF IS A PORTABLE AMPLIFIER THAT OPERATES OVER THE 20.0 TO 40.0 GHz FREQUENCY RANGE. THIS MODEL PROVIDES 30 dB OF TYPICAL GAIN WITH AN OP1dB OF +10dBm MINIMUM. THIS AMPLIFIER FEATURES AN ON/OFF SWITCH THAT IS LOCATED ON THE FRONT PANEL.**



February 23 2016

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Tested & Reported by: Harold Holvick



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### DESCRIPTION

PMI MODEL PTB-30-2040-5R0-10-100VAC-292FF IS A PORTABLE AMPLIFIER THAT OPERATES OVER THE 20.0 TO 40.0 GHz FREQUENCY RANGE. THIS MODEL PROVIDES 30 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 90 to 100 VAC AND IS SUPPLIED WITH A 6 FOOT LONG POWER CORD.

### SPECIFICATIONS

- FREQUENCY RANGE: \_\_\_\_\_ 20.0 TO 40.0 GHz
- GAIN: \_\_\_\_\_ +30 dB TYP
- GAIN FLATNESS: \_\_\_\_\_ ±2.0 dB MAX
- (\*)NOISE FIGURE: \_\_\_\_\_ 5.0 dB TYP
- OP1dB: \_\_\_\_\_ +10 dBm MIN
- VSWR (IN/OUT): \_\_\_\_\_ 2.0:1 MAX
- CONNECTORS (IN/OUT): \_\_\_\_\_ 2.92mm FEMALE
- AC VOLTAGE SUPPLY: \_\_\_\_\_ 90 to 100 VAC
- \*SUPPLIED WITH FUSE AND 6 FOOT POWER CORD
- SIZE \_\_\_\_\_ (L) 4.92" X (W) 4.92" X (H) 2.26"
- FINISH \_\_\_\_\_ BLUE POWDER COATED

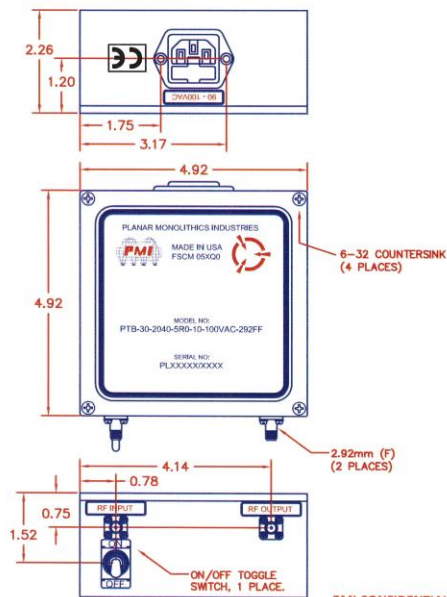
\*NOTE: MEASURED TO 26.5 GHz

### 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	11/9/15	



PMI CONFIDENTIAL AND PROPRIETARY

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ISO 9001 CERTIFIED



APPROVALS		DATE	TITLE	
DRWN	<i>SAB</i>	11/9/15	PRODUCT FEATURE	
REDRAWN			PTB-30-2040-5R0-10-100VAC-292FF	
ISSUED			SIZE: FSCM ING.	DWG NO.
			A 05XQ0	27027922
			SCALE: N: S	SHEET 1 OF 1

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



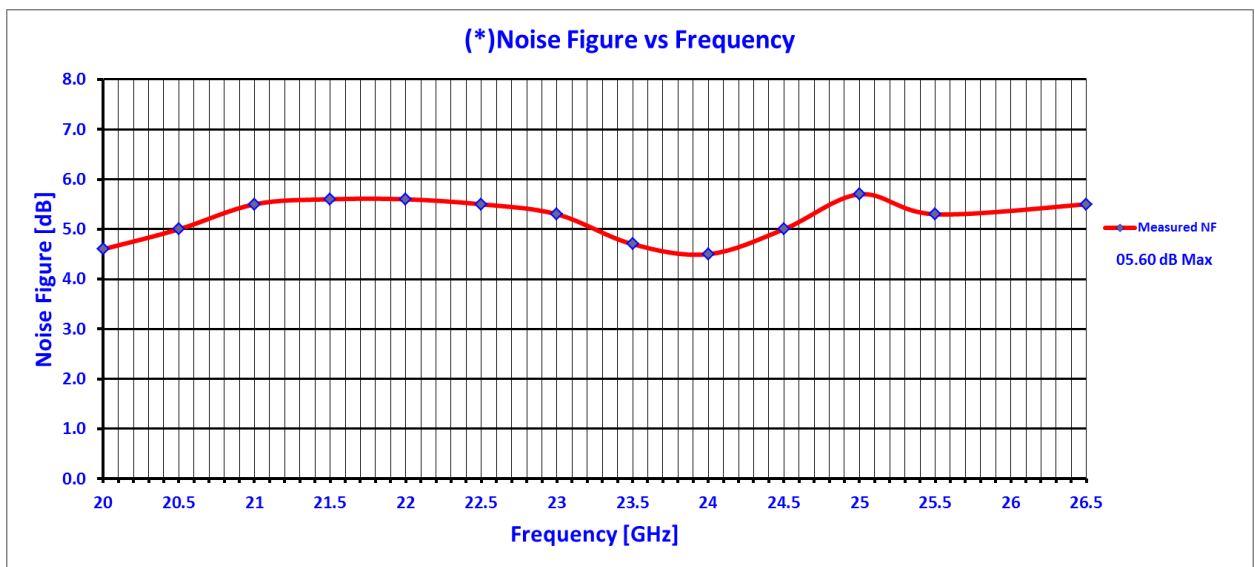
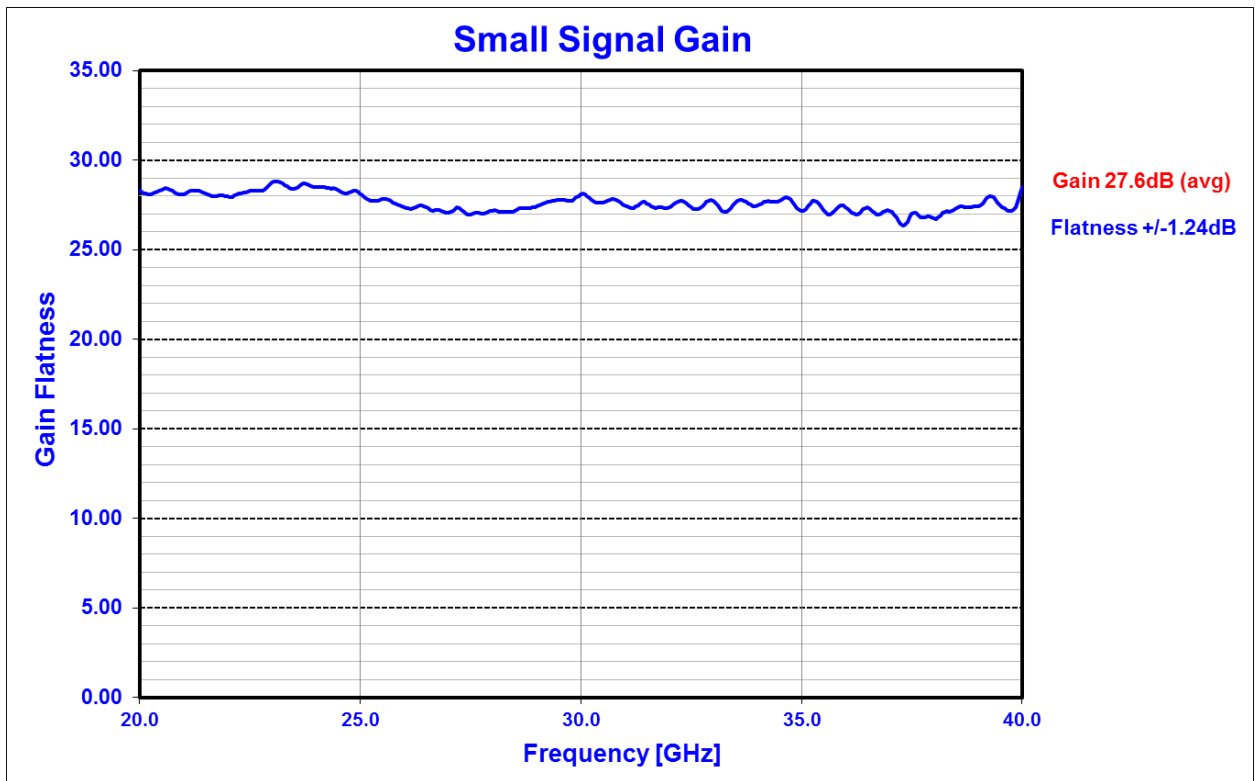
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TEST ITEM NO.	PARAMETERS	SPECIFIED VALUE	MEASURED VALUE	QA/QC
1	Frequency Range:	20.0 TO 40.0GHz	20.0 to 40.0 GHz (See Plot)	
2	Gain:	+30dB Typ	27.6 dB (See Plot)	
3	Gain Flatness	±2.0dB Max	+/-1.24dB (See Plot)	
4	(*)Noise Figure:	5.0dB Typ	5.6 dB	
5	OP1dB:	+10dBm Min	11.4 dBm (See Plot)	
6	VSWR In/Out:	2.0:1 Max	1.98:1/1.96:1 (See Plot)	
7	AC Voltage Supply:	115VAC, 60Hz	Pass	

\*Note: Only measured to 26.5GHz



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