



**TYPICAL CHARACTERISTICS
ON
PTB-42-1G40G-12-292FF-DC12**

PMI MODEL PTB-42-1G40G-12-292FF-DC12 IS A PORTABLE AMPLIFIER THAT OPERATES OVER THE 1.0 TO 40.0 GHz FREQUENCY RANGE. THIS MODEL PROVIDES 40 dB OF TYPICAL GAIN WITH AN OP1dB OF +22 dBm (1-18GHz) AND +18dB TYPICAL (18-40GHz). THIS AMPLIFIER FEATURES AN ON / OFF SWITCH THAT IS LOCATED ON THE FRONT PANEL. THIS AMPLIFIER CAN OPERATE ON EITHER 120VAC OR VIA AN EXTERNAL 12VDC BATTERY PACK OR SUPPLY.



February 13, 2015

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Tested By: Edd Benson
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DESCRIPTION

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SPECIFICATIONS

- FREQUENCY RANGE:..... 1.0 GHz TO 40.0 GHz
- GAIN: 40dB TYP.
- GAIN FLATNESS:..... ±2.5dB TYP.
- NOISE FIGURE:..... 5.0dB TYP. MID-BAND
- OP1dB:..... +22dBm TYP. (1-18 GHz)
+18dBm TYP. (18-40 GHz)
- VSWR IN/OUT:..... 2.5:1 TYP.
- MAXIMUM RF INPUT:..... +15dBm
- AC VOLTAGE SUPPLY:..... 120VAC
- DC VOLTAGE SUPPLY (EXTERNAL):..... +12VDC
- CONNECTOR IN/OUT:..... SMA 4 FLANGE FEMALE
- SIZE:..... 4.92" X 4.92" X 2.1"
- WEIGHT:..... 2.75oz
- FINISH:..... POWER COAT BLUE

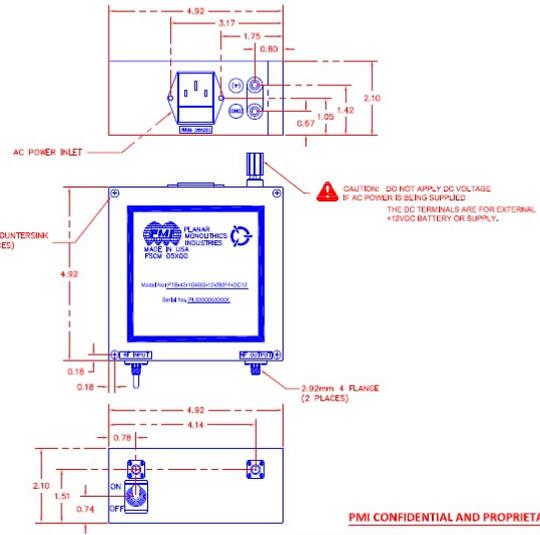
ENVIRONMENTAL RATINGS

- 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

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
A1		ORIGINAL RELEASE	3/28/12	
A2		ECN # 14-0119	7/24/14	
A3		ECN # 17-0168	7/17/17	



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ISO 9001 CERTIFIED

APPROVALS		DATE		TITLE	
DRAWN: JFR		3/28/10		PRODUCT FEATURE	
ISSUED:		SIZE	PSQM NO.	QWG NO.	REV.
		A	05XQ0	27016201	A3
SCALE: N: S				SHEET 1 OF 1	

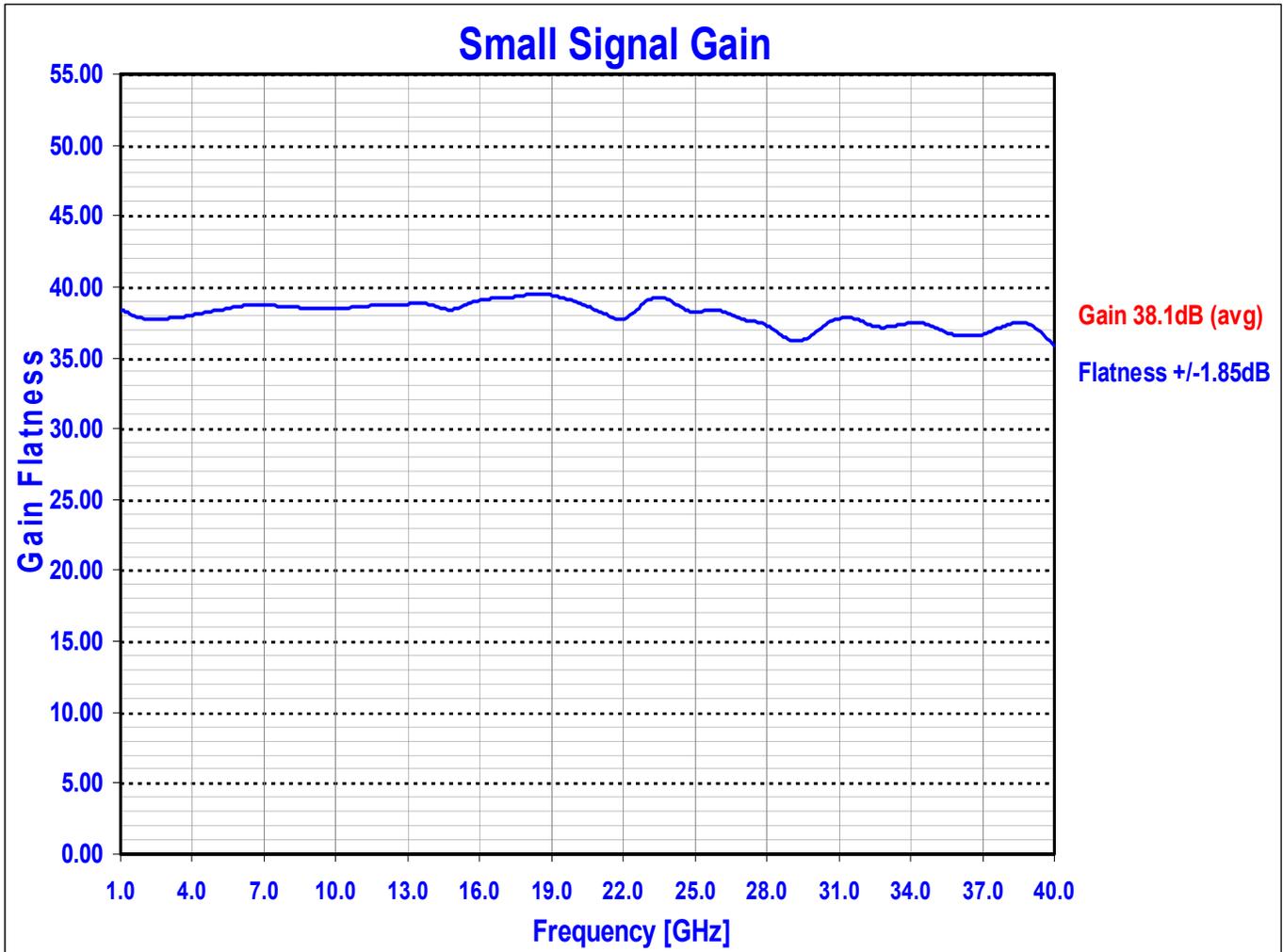


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TEST ITEM NO.	PARAMETERS	SPECIFIED VALUE	MEASURED VALUE	QA/QC
1	Frequency Range:	1.0 TO 40.0GHz	1.0 to 40.0 GHz (See Plot)	
2	Gain:	40dB Typ.	38.1dB (See Plot)	
3	Gain Flatness	±2.5dB Typ.	+/-1.85dB (See Plot)	
4	Noise Figure:	5.0dB Typ. MID-BAND	4.64dB (See Plot)	
5	OP1dB:	+22dBm Typ. (1-18GHz) +18dBm Typ. (18-40GHz)	+21.5dBm Max. +19.5dBm Min. +21dBm Max. +16dBm Min. (See Plot)	
6	VSWR In/Out:	2.5:1 Typ.	Input=1.82:1 Output=1.53:1 (See Plot)	
7	Maximum RF Input:	+15dBm	+15dBm	
8	AC Voltage Supply:	120VAC	120 VAC	
9	DC Voltage Supply (External):	+12VDC	+12VDC	



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