

DESCRIPTION

PMI MODEL PTB-42-1G40G-12-292FF-DC12 IS A PORTABLE AMPLIFIER THAT OPERATES OVER THE 1.0 TO 40.0GHz FREQUENCY RANGE. THIS MODEL PROVIDES 40dB OF TYPICAL GAIN WITH AN OP1dB OF +22dBm TYPICAL (1-18GHz) AND +18dBm 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.

SPECIFICATIONS

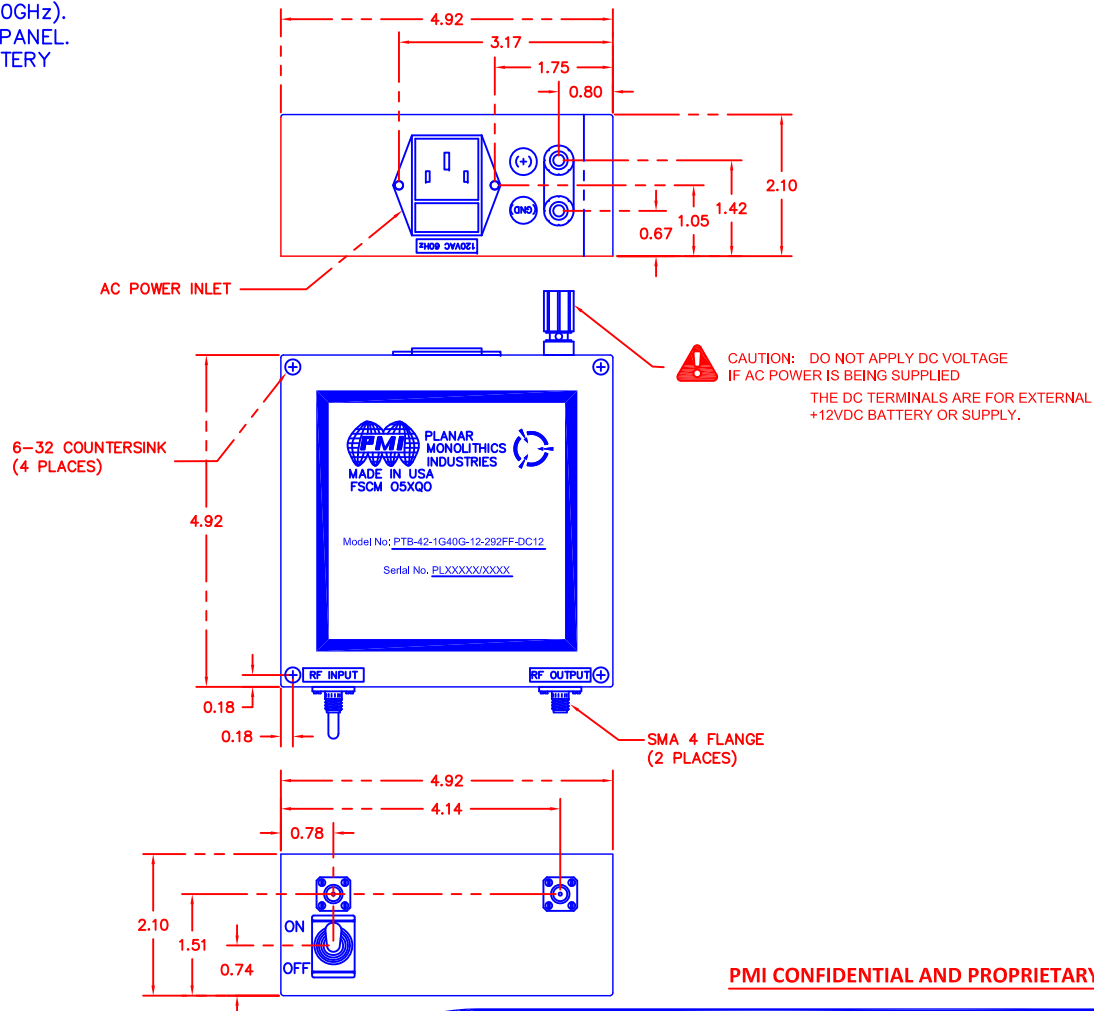
- FREQUENCY RANGE:..... 1.0 GHz TO 40.0 GHz
- GAIN: 40dB TYP.
- GAIN FLATNESS:..... ± 2.5 dB TYP.
- NOISE FIGURE:..... 5.0dB TYP. MID-BAND
- OP1dB:..... +22dBm TYP. (1-18 GHz)
+18dBm TYP. (18-40 GHz)
- VSWR IN/OUT: 2.5:1 TYP.
- MAXIMUM RF INPUT: +15dBm
- AC VOLTAGE SUPPLY:..... 120VAC
- DC VOLTAGE SUPPLY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

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
	A1	ORIGINAL RELEASE	3/28/12	
	A2	ECN # 14-0119	7/24/14	



PLANAR MONOLITHICS INDUSTRIES, INC.

7311-F GROVE ROAD
FREDERICK, MARYLAND 21704 USA
TEL: 301-662-4700 FAX: 301-662-4938
WEBSITE: www.pmi-rf.com
E-MAIL: sales@pmi-rf.com
ISO 9001 CERTIFIED



APPROVALS		DATE	TITLE			
			PRODUCT FEATURE			
DRAWN		3/28/10	PTB-42-1G40G-12-292FF-DC12			
REDRAWN			SIZE	FSCM NO.	DWG NO.	REV.
			A	05XQ0	27016201	A2
ISSUED			SCALE N: S			SHEET 1 OF 1

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