

DESCRIPTION

PMI MODEL PTB-50-1G40G-12-292FF-DC12-220VAC IS A PORTABLE AMPLIFIER THAT OPERATES OVER THE 1.0 TO 40.0 GHz FREQUENCY RANGE. THIS MODEL PROVIDES 50 dB OF TYPICAL GAIN WITH AN OP1dB OF +22 dBm TYPICAL (1 TO 18GHz) AND +18 dBm TYPICAL (18 TO 40GHz). THIS AMPLIFIER FEATURES AN ON / OFF SWITCH THAT IS LOCATED ON THE FRONT PANEL. THIS AMPLIFIER CAN OPERATE ON EITHER 220 to 230 VAC OR VIA AN EXTERNAL 12 VDC BATTERY PACK OR DC VOLTAGE SUPPLY.

SPECIFICATIONS

- FREQUENCY RANGE:..... 1.0 GHz TO 40.0 GHz
- GAIN: 50 dB TYP.
- GAIN FLATNESS:..... ±2.5 dB TYP.
- NOISE FIGURE:..... 5.0 dB TYP. MID-BAND
- OP1dB:..... +22 dBm TYP. (1 TO 18 GHz)
+18 dBm TYP. (18 TO 40 GHz)
- VSWR IN/OUT: 2.5:1 TYP.
- MAXIMUM RF INPUT: +15 dBm
- AC VOLTAGE SUPPLY:..... 220 to 230 VAC*
- DC VOLTAGE SUPPLY (EXTERNAL):..... +12 VDC
- CONNECTOR IN/OUT:..... 2.92mm FEMALE
- SIZE: 4.92" X 4.92" X 2.1"
- FINISH:..... BLUE POWDER COATED

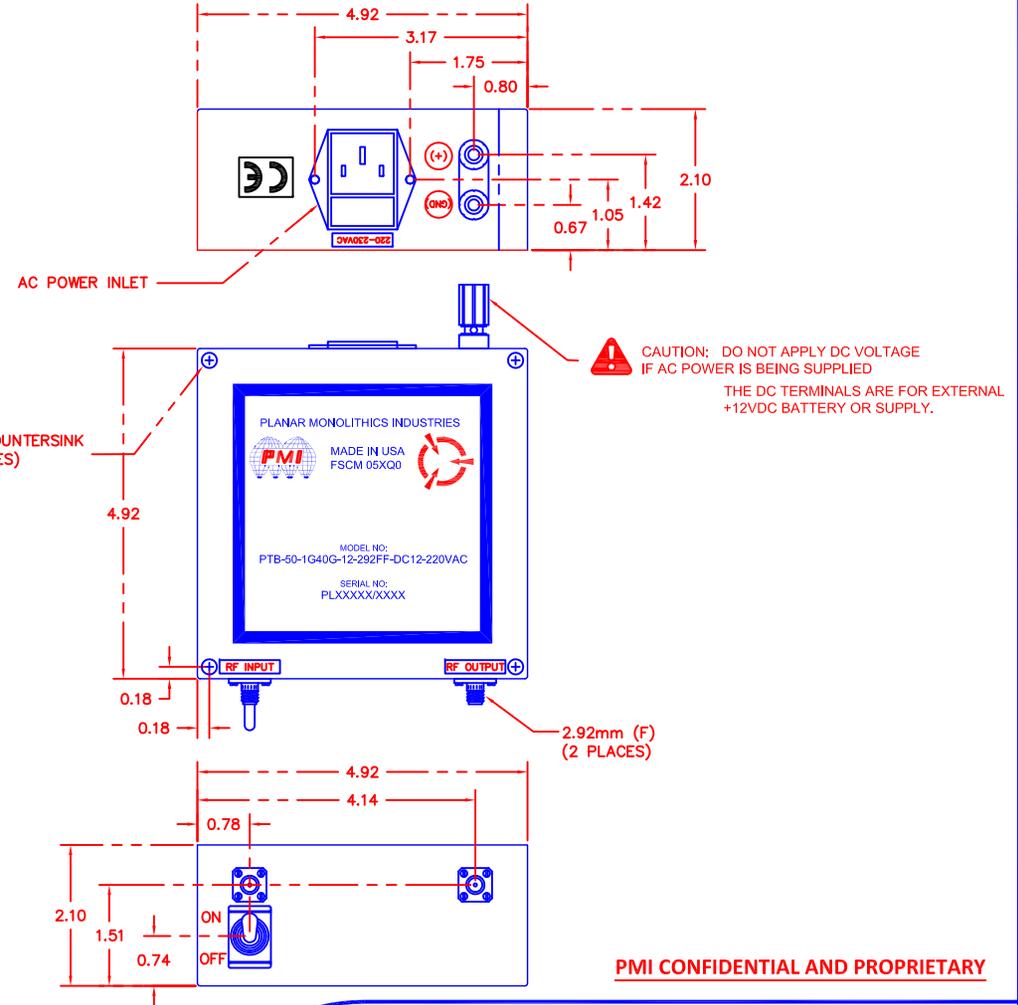
*SUPPLIED WITH A 6 FOOT STANDARD EU 2-PRONG STYLE POWER CORD

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	1/04/21	
	A2	ECN#21-0140	9/1/21	



PMI CONFIDENTIAL AND PROPRIETARY

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APPROVALS		DATE	TITLE		
DRAWN <i>EJM</i>		1/04/21	PRODUCT FEATURE		
REDRAWN			PTB-50-1G40G-12-292FF-DC12-220VAC		
ISSUED			SIZE	FSCM NO.	DWG NO.
			A	05XQ0	27040660
			SCALE	N: S	SHEET 1 OF 1
			REV.	A2	

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