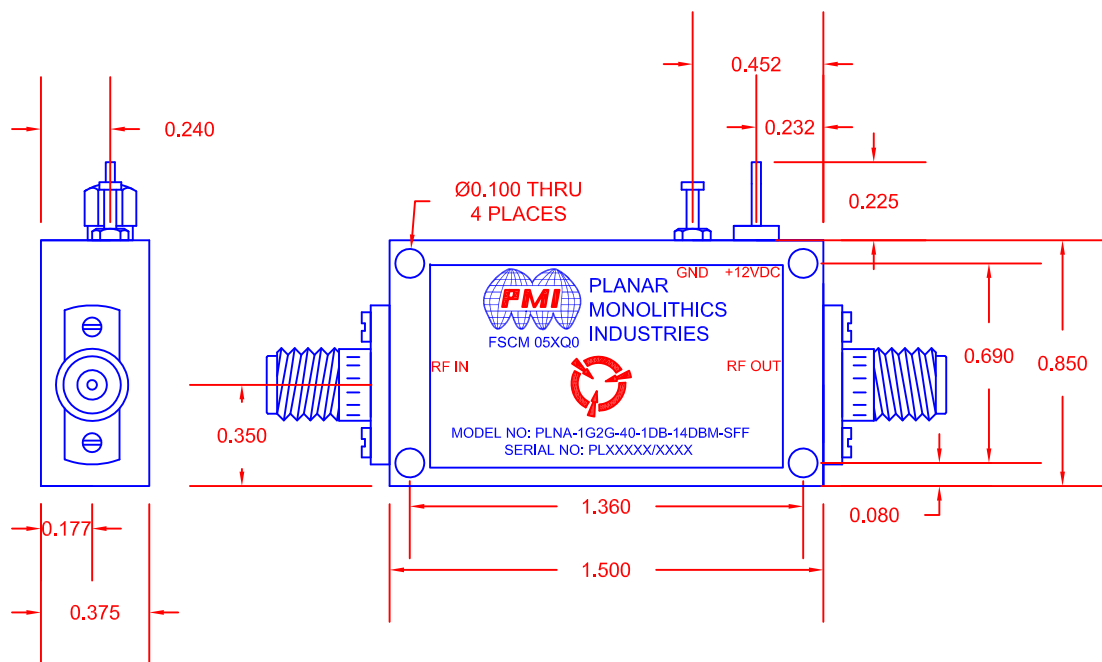


DESCRIPTION

PMI MODEL NO. PLNA-1G2G-40-1DB-14DBM-SFF IS A LOW NOISE AMPLIFIER THAT OPERATES OVER THE FREQUENCY RANGE OF 1.0 GHz TO 2.0 GHz. IT HAS A TYPICAL NOMINAL SS GAIN @ 25°C OF 40 dB AND A TYPICAL GAIN FLATNESS OF ± 1.0 dB. THIS MODEL IS OUTFITTED WITH SMA FEMALE CONNECTORS.

SPECIFICATIONS

- FREQUENCY RANGE: 1.0 TO 2.0 GHz
- NOISE FIGURE @ 25°C: 0.8 dB TYP, 1.0 dB MAX
- P-1dB COMPRESSION POINT: +14 dBm MIN, +16 dBm TYP
- OUTPUT IP3: +23 dBm MIN, +29 dBm TYP
- NOMINAL SS GAIN @ 25°C: 37 dB MIN, 40 dB TYP, 43 dB MAX
- GAIN FLATNESS: ± 1.0 dB TYP
- GAIN VARIATION: ± 1.0 dB TYP
- INPUT VSWR: 1.3:1 TYP, 1.6:1 MAX
- OUTPUT VSWR: 1.6:1 TYP, 2.0:1 MAX
- SPURIOUS: 70 dBc MAX
- DC VOLTAGE: +9.0 V MIN, +15 V MAX
- DC SUPPLY CURRENT: 120 mA TYP, 135 mA MAX
- CONNECTORS: SMA FEMALE
- FINISH: NICKEL PLATED



ENVIRONMENTAL RATINGS

- TEMPERATURE: -40 °C TO +85 °C (OPERATING)
-55 °C TO +125 °C (STORAGE)
- HUMIDITY: MIL-STD-202, METHOD 103B COND. B
- SHOCK: MIL-STD-202, METHOD 213B COND. B
- VIBRATION: MIL-STD-202, METHOD 204D COND. B
- ALTITUDE: MIL-STD-202, METHOD 105C COND. B
- TEMPERATURE CYCLE: MIL-STD-202, METHOD 107D COND. A

ALL DIMENSIONS
ARE IN INCHES [mm]
TOLERANCES:
X.XX ± 0.020
X.XXX ± 0.010

NOTE: SPECIFICATIONS WILL VARY OVER OPERATING TEMPERATURE

NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION

PMI CONFIDENTIAL AND PROPRIETARY

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	-	PRELIMINARY	11/18/2022	

MECHANICAL OUTLINE

PLANAR MONOLITHICS INDUSTRIES, INC.

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ISO 9001 CERTIFIED



		TITLE PRODUCT FEATURE PLNA-1G2G-40-1DB-14DBM-SFF				
APPROVALS	DATE					
DRAWN <i>AF</i>	11/18/22					
REDRAWN		SIZE A	FSCM NO. 05XQ0	DWG NO. PRELIMINARY	REV. -	
ISSUED		SCALE N:S		SHEET 1 OF 1		