

DESCRIPTION

PMI MODEL: LNA-10R7G12R75G-12-1R0-5-15-292FF IS A LOW NOISE AMPLIFIER OPERATING OVER THE 10.7 TO 12.75 GHz FREQUENCY RANGE. THIS UNIT PROVIDES A MINIMUM GAIN OF 12 dB WHILE MAINTAINING A TYPICAL GAIN FLATNESS OF 0.5 dB PEAK TO PEAK. THE NOISE FIGURE IS 70 °K (0.94 dB) MAXIMUM AND OFFERS A MINIMUM OP1dB OF +5 dBm. THE AMPLIFIER OPERATES ON +8 TO +15 V WITH A CURRENT DRAW OF 15 mA MAXIMUM AND IS OUTFITTED WITH 2.92 mm FEMALE CONNECTORS.

SPECIFICATIONS

- FREQUENCY RANGE: ----- 10.7 TO 12.75 GHz
- SMALL SIGNAL GAIN: ----- 12 dB TYPICAL
- GAIN FLATNESS: ----- 0.5 dB PK-PK TYPICAL
1.5 dB MAXIMUM
- NOISE FIGURE: ----- 55 °K (0.75 dB) GOAL
70 °K (0.94 dB) MAXIMUM
- OUTPUT POWER (P-1): ----- 5 dBm MINIMUM
- IP3: ----- 12 dBm MINIMUM
- VSWR: ----- INPUT (3.0:1 GOAL, 4.5:1 MAXIMUM)
OUTPUT (1.3:1 GOAL, 1.5:1 MAXIMUM)
- INPUT POWER HANDLING: ----- +10 dBm MAXIMUM
- SUPPLY VOLTAGE AND CURRENT: ----- +8 TO +15 VDC @ 15 mA MAXIMUM
- CONNECTORS: ----- 2.92 mm FEMALE (NON-REMOVABLE)
- SIZE: ----- 0.640" [16.26] x 0.570" [14.48] x 0.310" [7.87]

ENVIRONMENTAL RATINGS

- TEMPERATURE: ----- -40 °C TO +85 °C (OPERATING)
-54 °C TO +100 °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

NOTE: SPECIFICATIONS WILL VARY OVER OPERATING TEMPERATURE

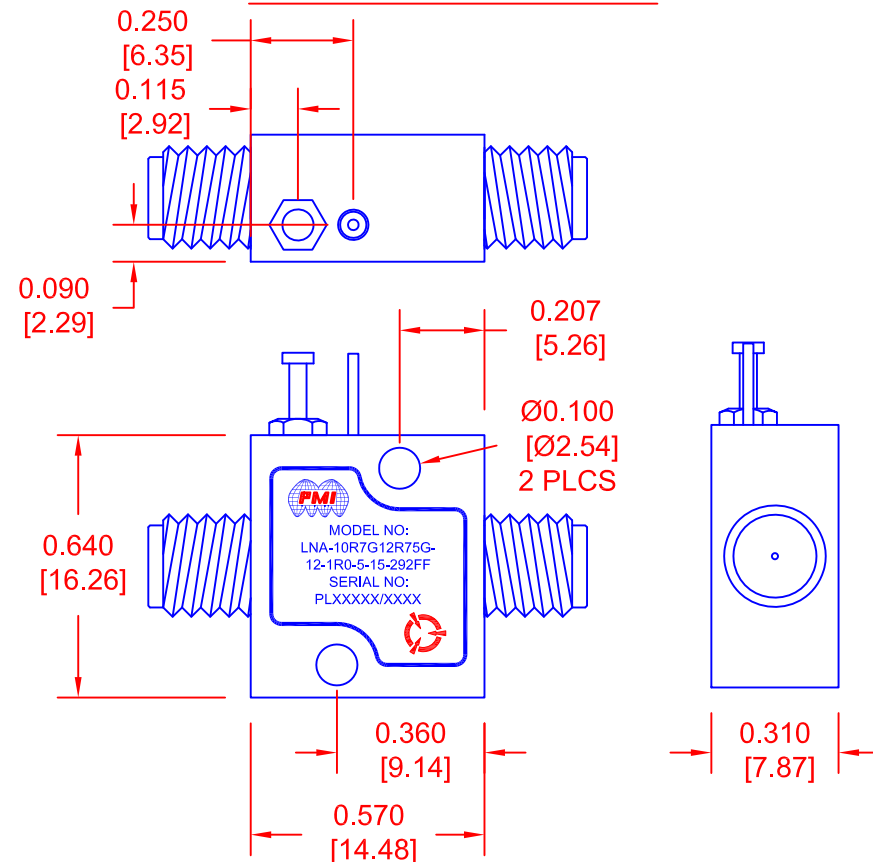
NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION

PMI CONFIDENTIAL AND PROPRIETARY

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

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	-	PRELIMINARY	1/7/16	JLS

MECHANICAL OUTLINE



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ISO 9001 CERTIFIED



APPROVALS		DATE		TITLE		
DRAWN		M. Berry		1/7/16		PRODUCT FEATURE LNA-10R7G12R75G-12-1R0-5-15-292FF
CHECKED						SIZE FSCM NO. DWG NO. PRELIMINARY REV. -
ISSUED						SCALE N:S SHEET 1 OF 1