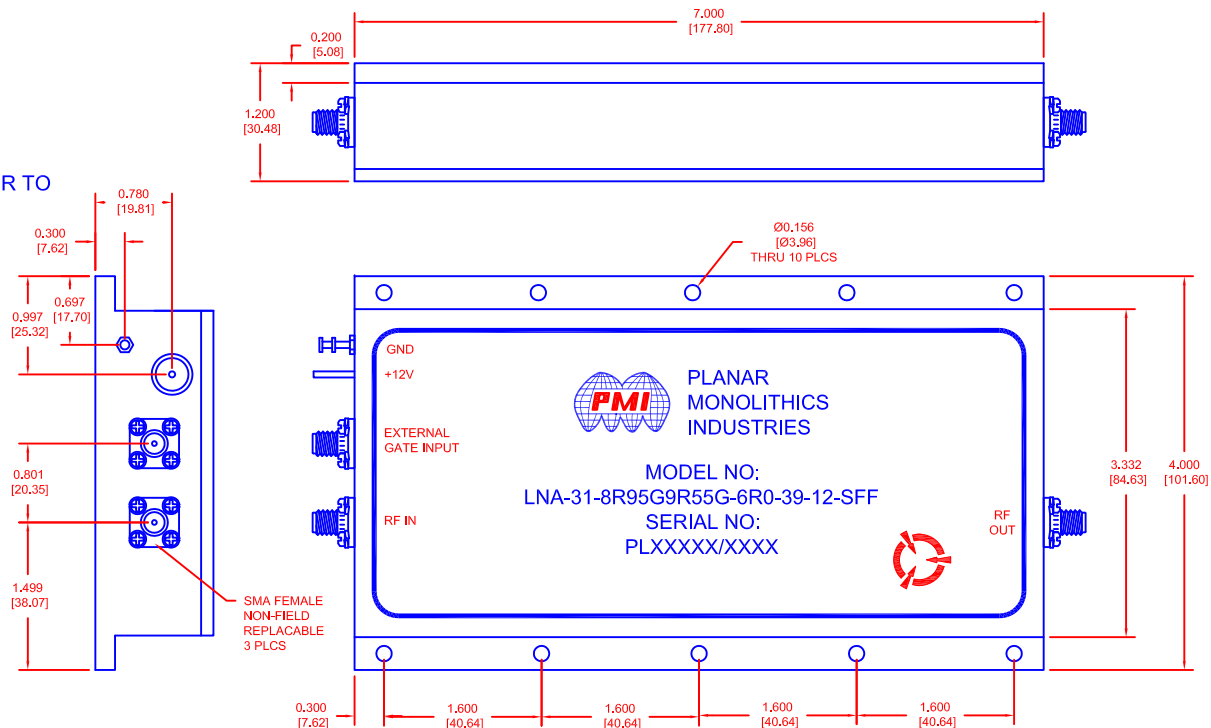


DESCRIPTION

PMI MODEL: LNA-31-8R95G9R55-6R0-39-12-SFF IS A NARROWBAND AMPLIFIER THAT PROVIDES A MINIMUM GAIN OF 31 dB WHILE MAINTAINING A MAXIMUM GAIN FLATNESS OF 1.5 dB MAXIMUM OVER THE OPERATING FREQUENCY. THE MAXIMUM NOISE FIGURE IS 6.0 dB AND OFFERS A MINIMUM OP1dB OF +39 dBm. THE AMPLIFIER REQUIRES +12 VDC AND A CURRENT DRAW OF 8 AMPS MAXIMUM. THIS AMPLIFIER IS SUPPLIED WITH NONREMOVABLE SMA FEMALE CONNECTORS.

SPECIFICATIONS

- FREQUENCY RANGE: ----- 8.95 TO 9.55 GHz
- OUTPUT P1dB: ----- 39 dBm MINIMUM
- GAIN: ----- 31 dB MINIMUM
- NOISE FIGURE @ 23 °C: ----- 4 dB GOAL
6 dB MAX
- GAIN FLATNESS VS FREQUENCY: ----- ±1.5 dB MAX
- EXTERNAL GATE: ----- 5V TTL, LOW ENABLE, 1 μs PRIOR TO RF APPLICATION, SMA FEMALE
- INPUT/OUTPUT VSWR: ----- 1.80:1 MAX
- POWER SUPPLY: ----- +12 VDC @ 8 A TYP
- CONNECTORS (RF): ----- SMA FEMALE
- SIZE: ----- 7.0" x 4.0" x 1.2"
- WEIGHT (WITH HEATSINK): ----- TBD



ENVIRONMENTAL RATINGS

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

ALL DIMENSIONS
ARE IN INCHES (mm)
TOLERANCES:
X.XX ±0.020
X.XXX ±0.010

PMI CONFIDENTIAL AND PROPRIETARY

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	-	PRELIMINARY	1/15/16	

MECHANICAL OUTLINE

PLANAR MONOLITHICS INDUSTRIES, INC.
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WEB: www.pmi-rf.com, EMAIL: sales@pmi-rf.com
ISO 9001 CERTIFIED



APPROVALS		DATE	TITLE			
DRAWN <i>M. Berry</i>		1/15/16	PRODUCT FEATURE LNA-31-8R95G9R55G-6R0-39-12-SFF			
CHECKED			SIZE	FSCM NO.	DWG NO.	REV.
ISSUED			A	05XQ0		-
			SCALE	N:S	SHEET	1 OF 1