

DESCRIPTION

PMI MODEL: LNA-30-2R7G3G-6R0-44-12-SFF IS A NARROWBAND AMPLIFIER THAT PROVIDES A MINIMUM GAIN OF 30 dB WHILE MAINTAINING A MAXIMUM GAIN FLATNESS OF 1 dB PEAK-TO-PEAK OVER THE OPERATING FREQUENCY. THE MAXIMUM NOISE FIGURE IS 6.0 dB AND OFFERS A MINIMUM OP1dB OF +44 dBm. THE AMPLIFIER REQUIRES +12 VDC AND A CURRENT DRAW OF 15 AMPS MAXIMUM. THIS AMPLIFIER IS SUPPLIED WITH REMOVABLE SMA FEMALE CONNECTORS.

SPECIFICATIONS

- FREQUENCY RANGE: ----- 2.7 TO 3.0 GHZ
- SMALL SIGNAL GAIN: ----- 30 dB MIN
- GAIN FLATNESS: ----- 1 dB PK-PK MAX
- GAIN VARIATION VS TEMPERATURE: - 0.04 dB/°C GOAL
0.06 dB/°C MAX
- RF INPUT DRIVE: ----- +30 dBm MAX
- OUTPUT POWER @ 1 dB GCP: ----- +43 dBm MIN
+44 dBm TYP
- OUTPUT POWER SATURATED: ----- +44.5 dBm TYP
- 3RD ORDER INTERCEPT POINT: ----- +50 dBm MIN
+51 dBm TYP
- 2 TONE 3RD ORDER INTERMOD: ----- -26 dBc MAX (@ SCL= +36 dBm)
-30 dBc MIN (@ SCL= +36 dBm)
- HARMONICS: ----- -30 dBc @ P1dB
- NON-HARMONICS: ----- -70 dBc MIN
- NOISE FIGURE (@ 25 °C): ----- 4 dB GOAL
6 dB TYP
- IMPEDANCE: ----- 50 Ω
- INPUT/OUTPUT RETURN LOSS: ----- 17 dB MIN
24 dB TYP
- FWD DETECTOR OUTPUT: ----- -1 V MIN @ O/P = +36 dBm
- POWER SUPPLY: ----- +12 VDC
- DC SUPPLY CURRENT: ----- 12 AMPS MIN
15 AMPS MAX
- EFFICIENCY: ----- 16% NOM
- CONNECTORS (RF): ----- SMA FEMALE
- CONNECTORS (DC/SIGNAL): ----- FILTERCON/GROUNDPOST
- SIZE: ----- 8.0" x 4.0" x 1.2"
- WEIGHT (WITH HEATSINK): ----- TBD

ENVIRONMENTAL RATINGS

- TEMPERATURE: ----- -10 °C TO +60 °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

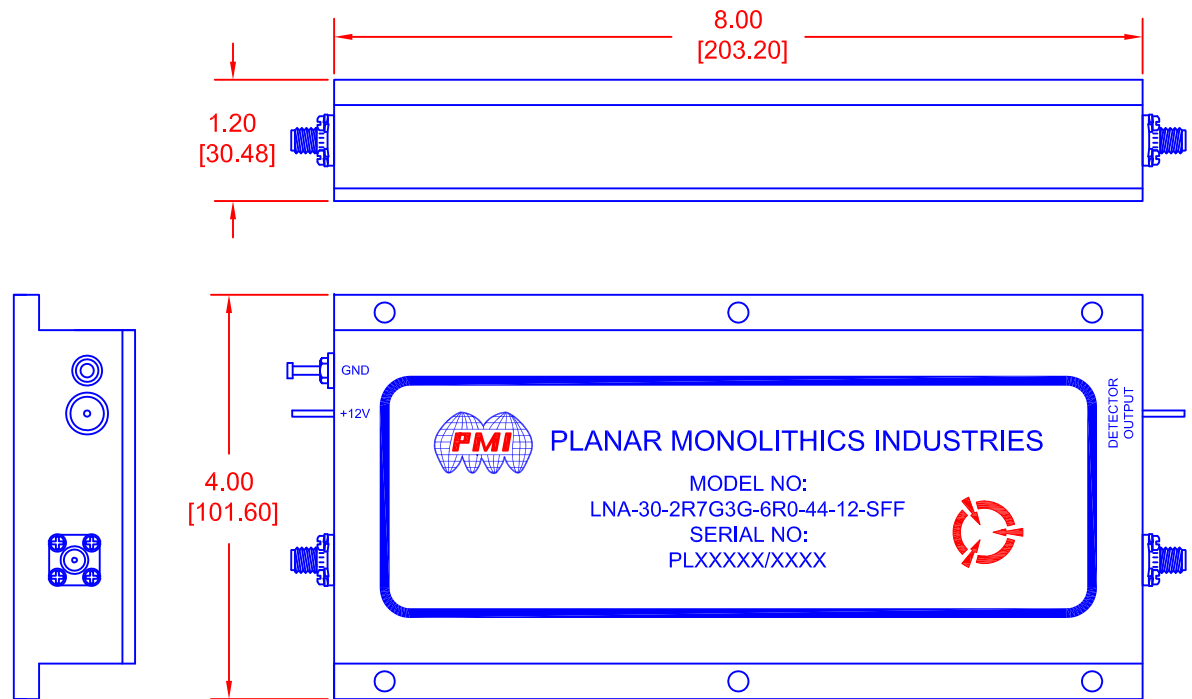
NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION

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	12/20/15	

MECHANICAL OUTLINE



PLANAR MONOLITHICS INDUSTRIES, INC.
7311-F GROVE ROAD
FREDERICK, MARYLAND 21704 USA
TEL: (301)-662-5019, FAX: (301)-662-1731
WEB: www.pmi-rf.com, EMAIL: sales@pmi-rf.com
ISO 9001 CERTIFIED



APPROVALS		DATE	TITLE			
DRAWN <i>M. Berry</i>		12/20/15	PRODUCT FEATURE LNA-30-2R7G3G-6R0-44-12-SFF			
CHECKED			SIZE	FSCM NO.	DWG NO.	REV.
ISSUED			A	05XQ0		-
			SCALE	N:S	SHEET	1 OF 1
			PRELIMINARY			