

DESCRIPTION

PMI MODEL NUMBER LNA-2D7G3D1G-29-0D7-16D5-15-SFM IS AN ULTRA LOW NOISE AMPLIFIER(0.7 dB NF), MINIMAL DC SUPPLY, FLAT GAIN, HIGH GAIN, AND HIGH LINEARITY.

SPECIFICATIONS @ 23°C

- FREQUENCY: 2.7 GHz to 3.1 GHz
- GAIN: 28 to 30 dB
- GAIN FLATNESS: ± 1.0 dB MAX
- NOISE FIGURE: 0.65 dB MAX
- VSWR IN: 1.6:1 MAX, 1.5:1 GOAL
- VSWR OUT: 1.6:1 MAX, 1.5:1 GOAL
- P1 dB OUT: +13 dBm MIN, +16.5 dBm TYP
- OUTPUT IP3: +27 dBm MIN +33.5 dBm TYP
- VOLTAGE: +8 TO +15 V @ 125 mA MAX
- PIN MAX.: +27 dBm 1 us
+15dBm 250 us
- PSAT OUTPUT: +20dBm MAX, +17 dBm GOAL
- INPUT POWER: +5 dBm CW MAX
- GAIN VARIATION OVER TEMP (+10 TO +50°C): 2.0 dB PK TO PK MAX
600 nS MAX
WITHIN 3 dB LINEAR GAIN
2° PHASE DEVIATION
-115 dBc/Hz @100 Hz OFFSET
-135 dBc/Hz @10 kHz OFFSET
-145 dBc/Hz @100 kHz OFFSET
- RECOVERY TIME:
- RESIDUAL PHASE NOISE:
- CONNECTORS: SMA FEMALE (INPUT)
SMA MALE (OUTPUT)
- AMPLIFIER UNCONDITIONALLY STABLE: OPEN/SHORT/LOAD
> 500,000 HOURS
NAVAL SHELTERED +30°C
MIL- HANDBOOK-217
- MTBF:
- FINISH: GOLD PLATED
- SIZE: 1.00 x 1.00 x 0.35

ENVIRONMENTAL RATINGS

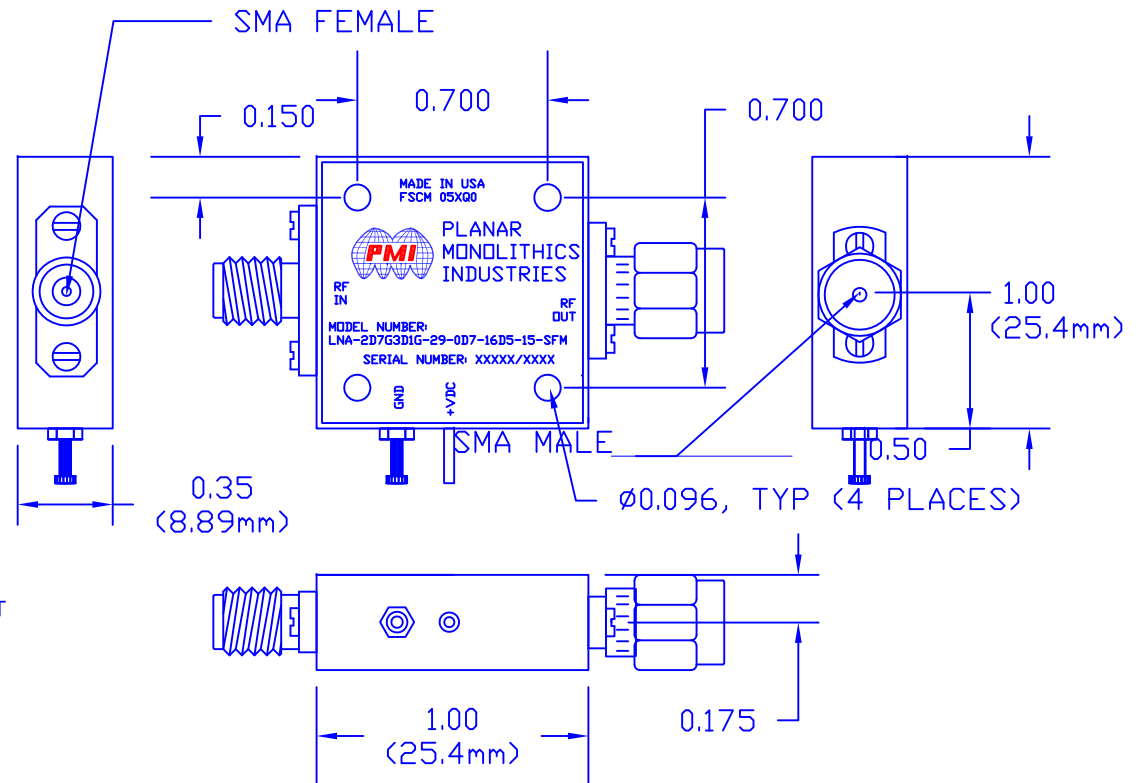
- TEMPERATURE: ----- +10 °C TO +75 °C (OPERATING)
-35 °C TO +90 °C (STORAGE)
- HUMIDITY: ----- MIL-STD-202F, METHOD 103B COND. B
- SHOCK: ----- MIL-STD-202F, METHOD 213B COND. B
- VIBRATION: ----- MIL-STD-202F, METHOD 204D COND. B
- ALTITUDE: ----- MIL-STD-202F, METHOD 105C COND. B
- TEMPERATURE CYCLE: ----- MIL-STD-202F, METHOD 107D COND. A

NOTE: SPECIFICATIONS WILL VARY OVER OPERATING TEMPERATURE
NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION

PMI CONFIDENTIAL AND PROPRIETARY

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	1	PRELIMINARY	07/16/15	LJP

MECHANICAL OUTLINE



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

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ISO 9001 CERTIFIED



APPROVALS		DATE	TITLE			REV.
DRAWN LJP		07/16/15	PRODUCT FEATURE LNA-2D7G3D1G-29-0D7-16D5-15-SFM 2.7 TO 3.1 GHz AMPLIFIER			1
CHECKED			SIZE	FSCM NO.	DWG NO.	
ISSUED			A	05XQ0	PRELIMINARY	
			SCALE	N:S	SHEET	1 OF 1