

DESCRIPTION

PMI MODEL NUMBER LNA-2D7G3D1G-29-0D6-16D5-15-SFM IS AN ULTRA LOW NOISE AMPLIFIER (0.7 dB nF), MINIMAL DC SUPPLY, FLAT GAIN, HIGH GAIN, AND HIGH LINEARITY.

SPECIFICATIONS @ 25°C

- FREQUENCY:----- 2.7 GHz to 3.1 GHz
- GAIN:----- 28 to 30 dB
- GAIN FLATNESS:----- ± 1.0 dB MAX
- NOISE FIGURE:----- 0.6 dB MAX,
0.53 dB TYP (0.005 dB/°C)
- VSWR IN:----- 1.6:1 MAX, 1.45:1 TYP
- VSWR OUT:----- 1.45:1 MAX, 1.35:1 TYP
- P1 dB OUT:----- +13 dBm MIN, +16.5 dBm TYP
- OUTPUT IP3:----- +23 dBm TYP
- VOLTAGE:----- +8 TO +11.5 V @ 125 mA MAX
- PIN MAX:----- +50 dBm 1 us
+30 dBm CW
- PSAT OUTPUT:----- +18dBm MAX,
- INPUT POWER:----- +5 dBm CW MAX
- GAIN VARIATION OVER TEMP (+10 TO +50°C): 2.0 dB PK TO PK MAX
- RECOVERY TIME:----- 600 ns MAX
WITHIN 3 dB LINEAR GAIN
2° PHASE DEVIATION
- RESIDUAL PHASE NOISE:----- -115 dBc/Hz @100 Hz OFFSET
-135 dBc/Hz @10 kHz OFFSET
-145 dBc/Hz @100 kHz OFFSET
- CONNECTORS:----- SMA FEMALE (INPUT)
SMA MALE (OUTPUT)
- AMPLIFIER UNCONDITIONALLY STABLE:----- OPEN/SHORT/LOAD
- MTBF:----- > 500,000 HOURS
NAVAL SHELTERED +30°C
MIL-HANDBOOK-217
- FINISH:----- GOLD PLATED
- SIZE:----- 1.00 x 1.00 x 0.35
- HERMETIC SEAL:----- UNIT IS LASER WELD SEALED*

*RoHS COMPLIANT

ENVIRONMENTAL RATINGS

- TEMPERATURE:----- +10 °C TO +75 °C (OPERATING)
-35 °C TO +90 °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

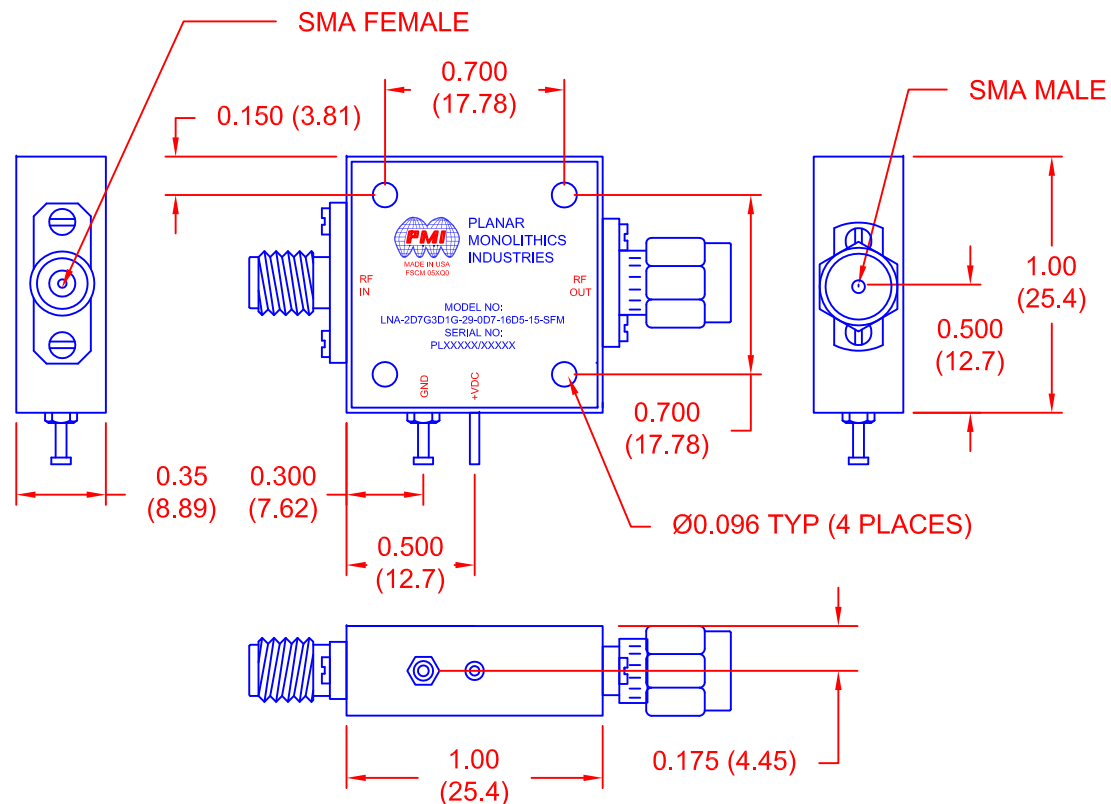
NOTE: SPECIFICATIONS WILL VARY OVER OPERATING TEMPERATURE

NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION

PMI CONFIDENTIAL AND PROPRIETARY

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	-	PRELIMINARY	10/12/15	

MECHANICAL OUTLINE



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

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ISO 9001 CERTIFIED



APPROVALS		DATE		TITLE	
DRAWN <i>M. Berry</i>		10/12/15		PRODUCT FEATURE LNA-2D7G3D1G-29-0D6-16D5-15-SFM 2.7 TO 3.1 GHz AMPLIFIER	
CHECKED				SIZE A	FSCM NO. 05XQ0
ISSUED				DWG NO. PRELIMINARY	REV. -
SCALE N:S				SHEET 1 OF 1	