

## DESCRIPTION

PMI MODEL NUMBER LNA-1D2G1D6G-14-10-12-SFF IS AN ULTRA LOW NOISE AMPLIFIER (0.6 dB TYP), 15 VOLT DC SUPPLY (100 mA MAX), 14 dB GAIN, WITH HIGH LINEARITY.

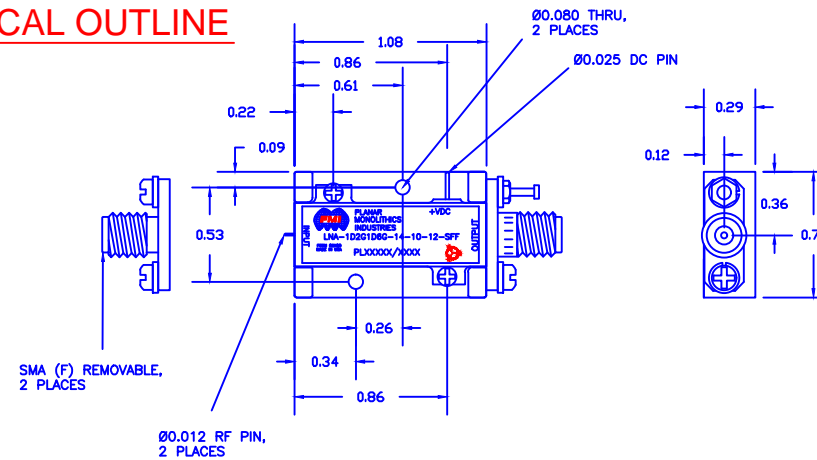
## SPECIFICATIONS @ 23°C

- FREQUENCY:----- 1.2 GHz to 1.6 GHz
- GAIN :----- 14 dB MIN
- GAIN FLATNESS:----- ± 1.5 MAX
- NOISE FIGURE:----- 0.7 dB MAX
- VSWR (INPUT AND OUTPUT):----- 2.0:1 MAX
- POWER SUPPLY:----- +15 VOLTS
- BIAS CURRENT :----- 100 mA MAX
- STABILITY:----- THE AMPLIFIER HAS TO BE UNCONDITIONALLY STABLE.
- 1 dB GAIN COMPRESSION POINT:-- +10 dBm MINIMUM
- IP3 OUTPUT :----- +20 dBm MINIMUM
- CONNECTORS:----- FEMALE SMA (INPUT AND OUTPUT)
- SIZE:----- 1.08" X 0.71" X 0.29"

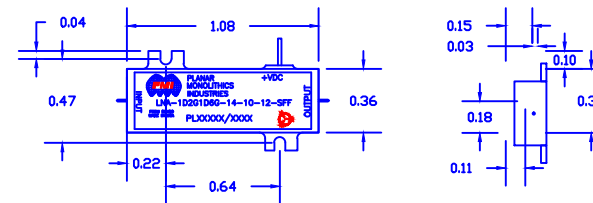
REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	1	PRELIMINARY	08/26/15	LJP

### HOUSING WITH CARRIER

### MECHANICAL OUTLINE



### HOUSING WITHOUT CARRIER (SURFACE MOUNT)



## ENVIRONMENTAL RATINGS

- TEMPERATURE: -54 °C TO +85 °C (OPERATING)  
-55 °C TO +125 °C (NON-OPERATING)
- 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

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

**PMI CONFIDENTIAL AND PROPRIETARY**

NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION

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ISO 9001 CERTIFIED



APPROVALS		DATE	TITLE		
DRAWN <i>LJP</i>		08/26/15	LNA-1D2G1D6G-14-10-12-SFF 1.2 TO 1.6 GHz AMPLIFIER		
CHECKED			SIZE	FSCM NO.	REV.
ISSUED			A	05XQ0	1
			DWG NO.	PRELIMINARY	
			SCALE	N:S	SHEET 1 OF 1