

# DESCRIPTION

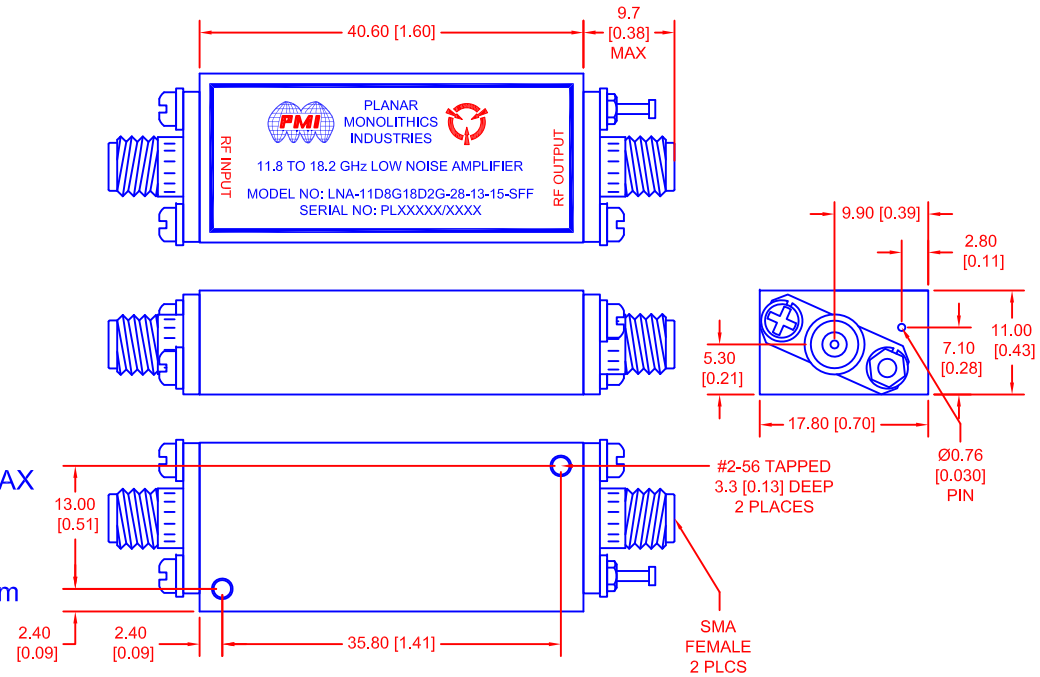
PMI MODEL: LNA-11D8G18D2G-28-13-15-SFF IS A LOW NOISE AMPLIFIER OPERATING OVER THE 11.8 TO 18.2 GHz FREQUENCY RANGE. THIS AMPLIFIER OFFERS A MINIMUM SIGNAL GAIN OF 28 dB LIMITING NOISE TO A MAXIMUM OF 5 dB. THE HOUSING IS OUTFITTED WITH FIELD REPLACEABLE SMA FEMALE CONNECTORS.

# SPECIFICATIONS

- FREQUENCY RANGE: ----- 11.8 TO 18.2 GHz
- SMALL SIGNAL GAIN: ----- 28 dB MIN  
32 dB MAX
- GAIN FLATNESS vs FREQUENCY: ----- ±1 dB MAX
- GAIN VARIATION OVER TEMPERATURE: - ±1 dB MAX
- NOISE FIGURE: ----- 5 dB MAX
- P1dB: ----- 13 dBm MIN
- VSWR (INPUT/OUTPUT): ----- 2.0:1 MAX
- MAXIMUM INPUT POWER: ----- +20 dBm CW MAX
- POWER SUPPLY: ----- +15±5% VDC @ 280 mA MAX
- CONNECTORS: ----- +V: SOLDER TERMINAL  
RF: SMA FEMALE
- SIZE (EXCLUDING CONNECTORS): ----- 40.6mm x 17.8mm x 11.0mm  
1.60" x 0.70" x 0.43"
- FINISH: ----- PAINTED BLUE

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	-	PRELIMINARY	08/11/17	

# MECHANICAL OUTLINE



# ENVIRONMENTAL RATINGS

- TEMPERATURE: ----- 0 °C TO +50 °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 CYCLING: ----- MIL-STD-202, METHOD 107A COND. A

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

ALL DIMENSIONS  
HAVE A TOLERANCE  
OF ±0.5mm [0.020"]

**PMI CONFIDENTIAL AND PROPRIETARY**

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APPROVALS		DATE	TITLE			
DRAWN <i>M. Berry</i>		08/11/17	PRODUCT FEATURE LNA-11D8G18D2G-28-13-15-SFF 11.8 to 18.2 GHz Low Noise Amplifier			
CHECKED			SIZE A	FSCM NO. 05XQ0	DWG NO. PRELIMINARY	REV. -
ISSUED			SCALE N:S		SHEET 1 OF 1	