

## DESCRIPTION

PMI MODEL NO. LNA-30-0D118-SFF-MTQ IS A LOW NOISE AMPLIFIER THAT OPERATES OVER THE FREQUENCY RANGE OF 0.1 TO 18.0 GHz. IT HAS A MINIMUM GAIN OF 30 dB AND A MAXIMUM NOISE FIGURE OF 2.5 dB. THIS MODEL IS OUTFITTED WITH SMA FEMALE CONNECTORS.

## SPECIFICATIONS @ +23°C

- FREQUENCY RANGE: ----- 0.1 TO 18.0 GHz
- NOISE FIGURE: ----- 2.5 dB MAX\*
- GAIN: ----- 30 dB MIN
- GAIN FLATNESS: ----- ±2 dB MAX
- OUTPUT POWER @ P1dB: ----- 10 dBm MIN
- INPUT VSWR: ----- 2.4 MAX
- OUTPUT VSWR: ----- 2.3 MAX
- VOLTAGE: ----- 15 VDC TYP
- CURRENT: ----- 250 mA MAX
- RF INPUT POWER: ----- 13 dBm MAX
- CONNECTORS: ----- SMA FEMALE
- SIZE: ----- 0.64" x 0.70" x 0.29"

\*NOISE FIGURE: NOT GUARANTEED BELOW 700 MHz

## ENVIRONMENTAL RATINGS

- TEMPERATURE: ----- -55 °C TO +85 °C (OPERATING)  
----- -65 °C TO +125 °C (STORAGE)
- HUMIDITY: ----- MIL-STD-202, METHOD 103B COND. B
- RANDOM VIBRATION: ----- MIL-STD-883K, METHOD 2026 COND. IB
- ALTITUDE: ----- MIL-STD-883K, METHOD 1001 COND. C

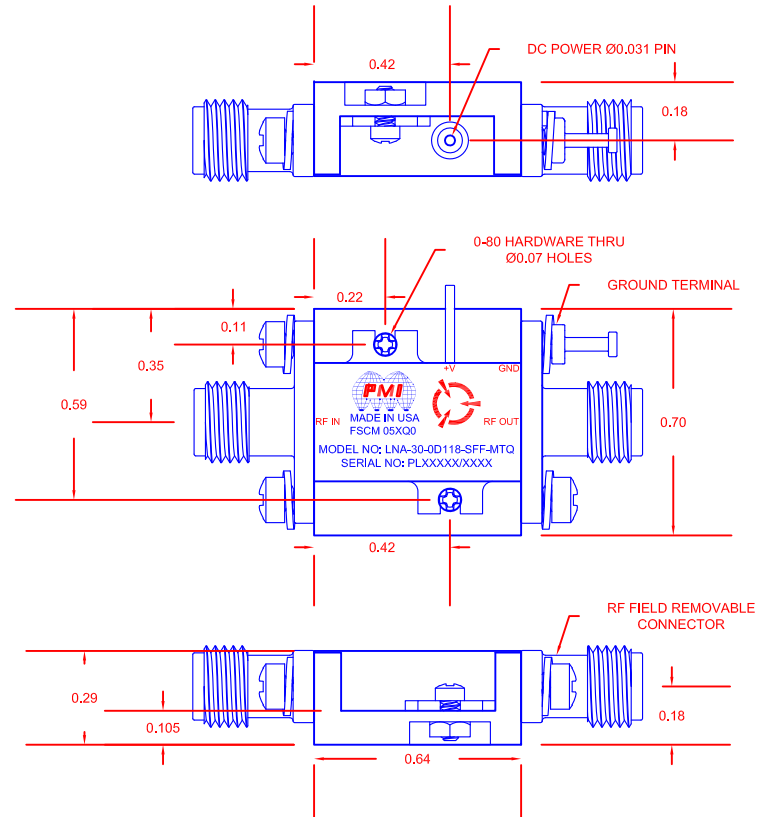
NOTE: SPECIFICATIONS WILL VARY OVER OPERATING TEMPERATURE  
NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION

**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
	A1	ORIGINAL RELEASE	8/24/2020	

## MECHANICAL OUTLINE



## PLANAR MONOLITHICS INDUSTRIES, INC.

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ISO 9001 CERTIFIED



APPROVALS		DATE	TITLE			REV.
DRAWN <i>EW</i>		1/24/20	OUTLINE LNA-30-0D118-SFF-MTQ			A1
REDRAWN			SIZE A	FSCM NO. 05XQ0	DWG NO. 27038240	
ISSUED			SCALE N:S		SHEET 1 OF 1	