

DESCRIPTION

PMI MODEL NO. LNA-20-17-5-SFF IS A LOW NOISE AMPLIFIER THAT OPERATES OVER THE FREQUENCY RANGE 1.0 TO 7.0 GHz. IT HAS A MINIMUM GAIN OF 20 dB AND A NOISE FIGURE OF 5 dB. OUTFITTED WITH SMA FEMALE CONNECTORS, THIS AMPLIFIER IS A FORM, FIT, FUNCTION EQUIVALENT TO LORAL 342108.

SPECIFICATIONS

- FREQUENCY RANGE: ----- 1.0 TO 7.0 GHz
- OUTPUT POWER P1dB: ----- 22 dBm
- GAIN: ----- 20 dB MIN, 26 dB MAX
- GAIN FLATNESS: ----- ±2.0 dB
- NOISE FIGURE: ----- 5 dB
- VSWR IN/OUT: ----- 2:1
- MINIMUM THIRD ORDER INTERCEPT POINT: ----- 32 dBm
- TYPICAL SATURATED OUTPUT POWER: ----- 24 dBm
- HARMONICS: ----- -12 dBc
- NON-HARMONIC SPURIOUS: ----- -50 dBc
- STABILITY: ----- UNCONDITIONAL
- COOLING: ----- CONVECTION
- DC VOLTAGE: ----- 15 V
- DC CURRENT: ----- 900 mA
- FINISH: ----- GOLD PLATED

ENVIRONMENTAL RATINGS

- TEMPERATURE: ----- 3 °C TO +70 °C (OPERATING)
-65 °C TO +125 °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

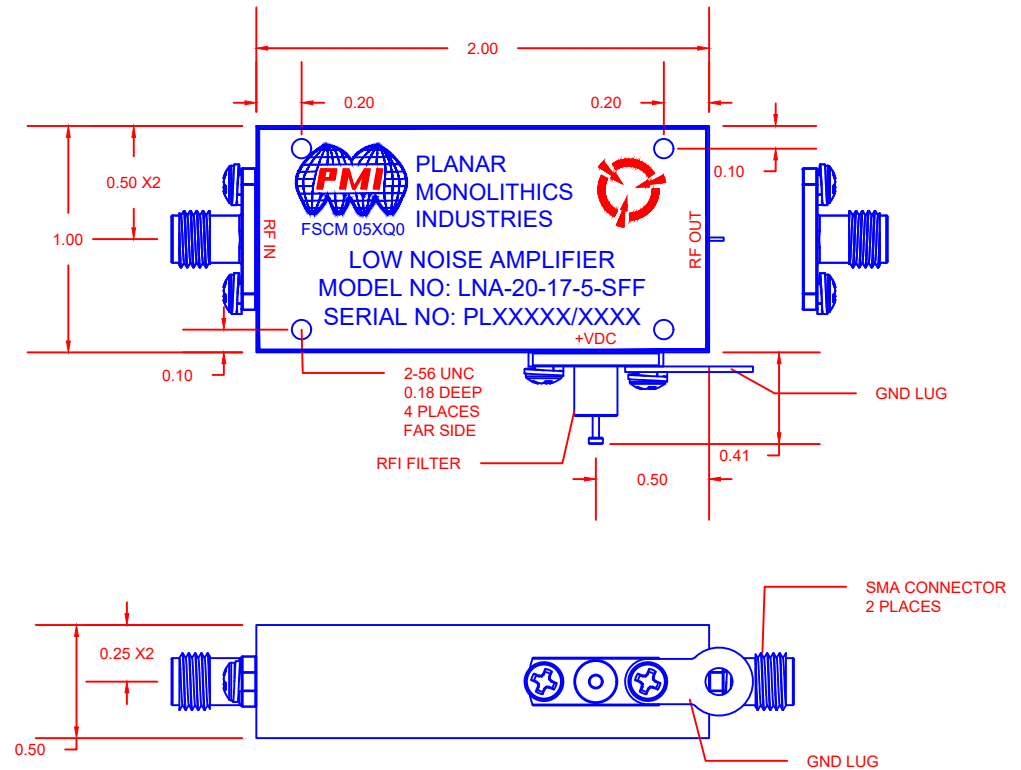
NOTE: SPECIFICATIONS WILL VARY OVER OPERATING TEMPERATURE

NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION

PMI CONFIDENTIAL AND PROPRIETARY

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	A1	ORIGINAL RELEASE	5/29/2020	

MECHANICAL OUTLINE



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

PLANAR MONOLITHICS INDUSTRIES, INC.

7311-F GROVE ROAD

FREDERICK, MARYLAND 21704 USA

TEL: (301)-662-5019, FAX: (301)-662-1731

WEB: www.pmi-rf.com, EMAIL: sales@pmi-rf.com

ISO 9001 CERTIFIED



APPROVALS		DATE	TITLE				REV.
DRAWN <i>BW</i>		6/26/19	PRODUCT FEATURE LNA-20-17-5-SFF				A1
REDRAWN <i>JMB</i>		12/12/19	SIZE	FSCM NO.	DWG NO.		
ISSUED			A	05XQ0	27037720		
			SCALE	N:S	SHEET	1 OF 1	