

DESCRIPTION

PMI MODEL: LNA-33-100M19G-5R0-10-15-292FF IS A LOW NOISE AMPLIFIER THAT PROVIDES A MINIMUM GAIN OF 30 dB WHILE MAINTAINING A MAXIMUM GAIN FLATNESS OF ± 1.75 dB OVER THE OPERATING FREQUENCY. THE MAXIMUM NOISE FIGURE IS 5.0 dB AND OFFERS A MINIMUM OP1dB OF +10 dBm. THE AMPLIFIER REQUIRES +15 VDC AND A CURRENT DRAW OF 175 mA MAXIMUM. THIS AMPLIFIER IS SUPPLIED WITH REMOVABLE 2.92 mm FEMALE CONNECTORS.

SPECIFICATIONS

- FREQUENCY RANGE: 0.1 TO 19 GHz
(OPERATIONAL TO 20 GHz)
- SMALL SIGNAL GAIN: 30 TO 36 dB
- GAIN FLATNESS: ± 1.75 MAX
2.5 dB PK-PK TYP
- NOISE FIGURE (@ 25 °C): 5.0 dB MAX (100 MHz TO 400 MHz)
4.0 dB MAX (400 MHz TO 4.0 GHz)
3.0 dB MAX (4.0 GHz TO 16.0 GHz)
4.4 dB MAX (16.0 GHz TO 19.0 GHz)
- OUTPUT POWER (P-1): +10 dBm MIN
+12 dBm TYP
- IP3: +20 dBm MIN
+22 dBm TYP
- VSWR (INPUT/OUTPUT): 2.2:1 MAX
- INPUT POWER HANDLING: +16 dBm MAX
- SUPPLY VOLTAGE & CURRENT: +15 VDC @ 175 mA MAX
- SIZE: 1.07" x 0.64" x 0.31"
EXCLUDING CONNECTORS
- CONNECTORS: 2.92 mm FEMALE REMOVABLE
- FINISH: BLUE EPOXY POLIMIDE COATING IAW
MIL-C-22750, TYPE I OVER EPOXY
POLIMIDE PRIMER IAW MIL-P-23377,
TYPE I, CLASS 1 OR 3. MOUNTING
SURFACE FREE OF PAINT (GOLD FINISH)

ENVIRONMENTAL RATINGS

- TEMPERATURE: +5 °C TO +45 °C (OPERATING)
-40 °C TO +45 °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

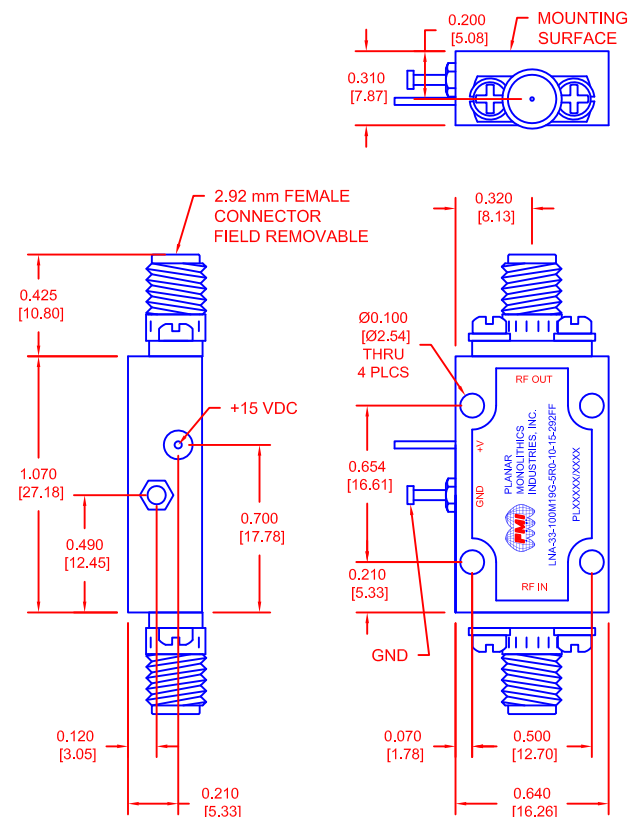
NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION

PMI CONFIDENTIAL AND PROPRIETARY

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

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	-	PRELIMINARY	12/29/15	HS

MECHANICAL OUTLINE



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		
DRAWN		M. Berry		12/29/15		
CHECKED						
ISSUED						
SIZE		A		FSCM NO.		
				05XQ0		
				DWG NO.		
				PRELIMINARY		
				REV.		
				-		
				SCALE		
				N:S		
				SHEET		
				1 OF 1		