

DESCRIPTION

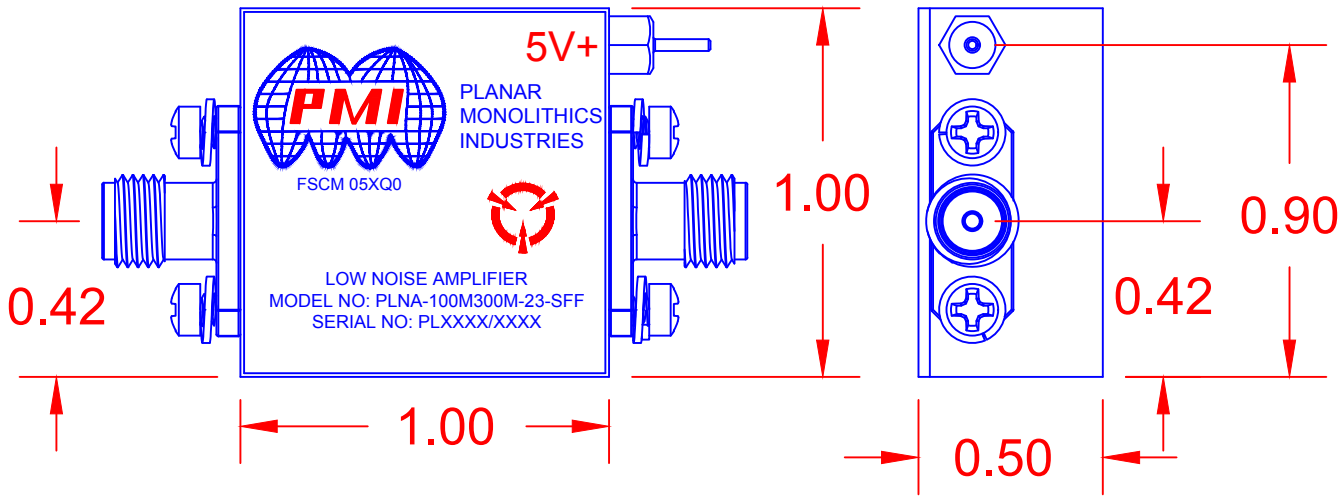
PMI MODEL: THE PLNA-100M300M-23-SFF IS A LOW NOISE AMPLIFIER WITH 23 DB GAIN AND LOW CURRENT DRAW. THIS DESIGN OPERATES ON A SINGLE 5V SUPPLY, IS WELL MATCHED FOR 50 OHMS AND HAS A GAIN FLATNESS OF ±1 DB.

SPECIFICATIONS

- FREQUENCY: 100 MHz TO 300 MHz
- GAIN: 23.0 dB TYP.
- GAIN FLATNESS: ±1.0 dB TYP.
- P1dB: 10.7 dBm TYP.
- VSWR: IN: 1.1:1 TYP. OUT:1.3:1 TYP.
- MAX POWER INPUT: 13 dBm
- OIP3: 23.3 dBm TYP.
- NOISE FIGURE: 2.2 dB TYP.
- POWER SUPPLY: 5V @ 32mA TYP.

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	A1	INITIAL RELEASE	3/10/2020	

MECHANICAL OUTLINE



ENVIRONMENTAL RATINGS

- TEMPERATURE: -55 °C TO +85 °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

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

PMI CONFIDENTIAL AND PROPRIETARY

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



		TITLE			
APPROVALS		DATE		PRODUCT FEATURE PLNA-100M300M-23-SFF	
DRAWN GJR		03/10/20			
REDRAWN					
ISSUED		SIZE A	FSCM NO. 05XQ0	DWG NO. 27038180	REV. A1
		SCALE N:S	SHEET		1 OF 1