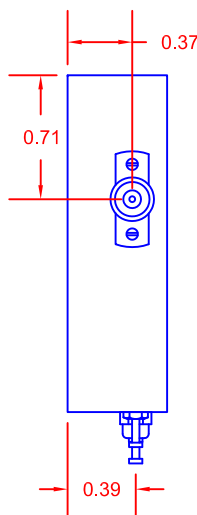


DESCRIPTION

PMI MODEL NO. PA-38-812-SFF IS A POWER AMPLIFIER THAT OPERATES OVER THE FREQUENCY RANGE OF 8.0 TO 12.0 GHz. IT HAS A TYPICAL SMALL SIGNAL GAIN OF 38 dB AND A TYPICAL OUTPUT POWER AT 1 dB COMPRESSION OF +34 dBm. THIS MODEL IS OUTFITTED WITH SMA FEMALE CONNECTORS.

SPECIFICATIONS

- FREQUENCY RANGE: 8.0 TO 12.0 GHz
- SMALL SIGNAL GAIN: 36 dB MIN, 38 dB TYP
- SMALL SIGNAL GAIN FLATNESS: ± 1.0 dB MAX
- OUTPUT POWER AT 1 dB COMPRESSION: +33 dBm MIN, +34 dBm TYP
- NOISE FIGURE: 6.0 dB MAX
- INPUT VSWR: 2:1 MAX
- OUTPUT VSWR: 2:1 MAX
- DC SUPPLY VOLTAGE (WITH INTERNAL REGULATOR): +12 V MIN, +15 V MAX
- CURRENT SUPPLY: 2.2 A MAX
- CONNECTORS: SMA FEMALE
- FINISH: PAINTED BLUE



ENVIRONMENTAL RATINGS

- TEMPERATURE: -30 °C TO +70 °C (OPERATING)
-40 °C TO +85 °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

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

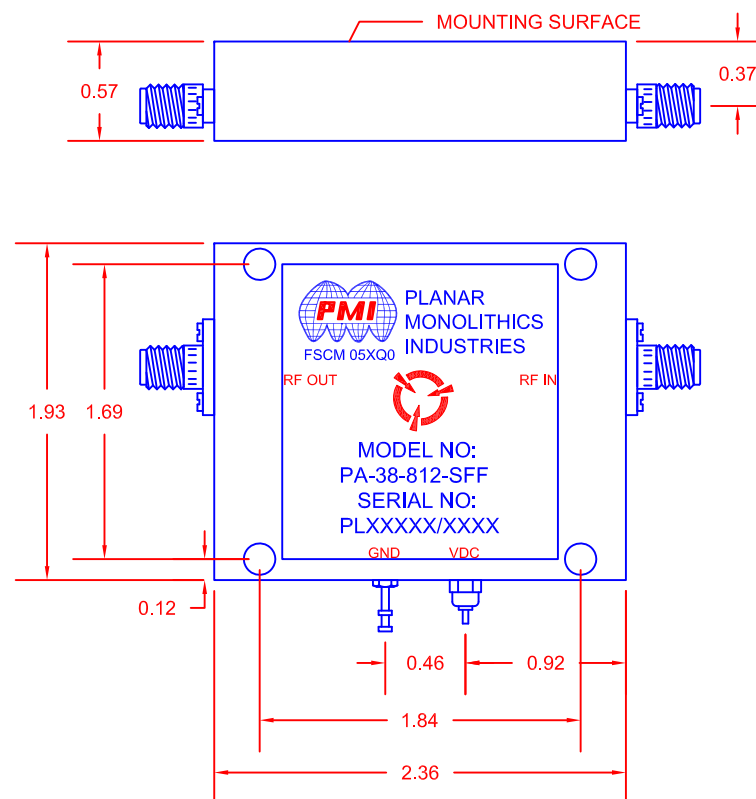
NOTE: SPECIFICATIONS WILL VARY OVER OPERATING TEMPERATURE

NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION

PMI CONFIDENTIAL AND PROPRIETARY

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	-	PRELIMINARY	9/25/2019	

MECHANICAL OUTLINE



PLANAR MONOLITHICS INDUSTRIES, INC.

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ISO 9001 CERTIFIED



APPROVALS		DATE		TITLE	
DRAWN		9/25/19		PRODUCT FEATURE	
REDRAWN				PA-38-812-SFF	
ISSUED				PRELIMINARY	
SIZE		FSCM NO.		DWG NO.	
A		05XQ0		PRELIMINARY	
SCALE		N:S		SHEET	
				1 OF 1	