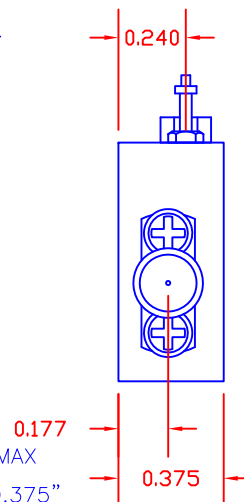


DESCRIPTION

PMI MODEL NO: PEC-28-10M3G-1R9-13-12-SFF IS A 0.01 TO 3.0 GHz LOW NOISE AMPLIFIER. IT OFFERS TYPICAL SMALL SIGNAL GAIN OF 30 dB, MAXIMUM NOISE FIGURE OF 1.9 dB AND A TYPICAL P1dB OF 13 dBm. THIS AMPLIFIER IS SUPPLIED WITH SMA FEMALE CONNECTORS IN A HOUSING MEASURING 1.5" X 0.85" X 0.375"

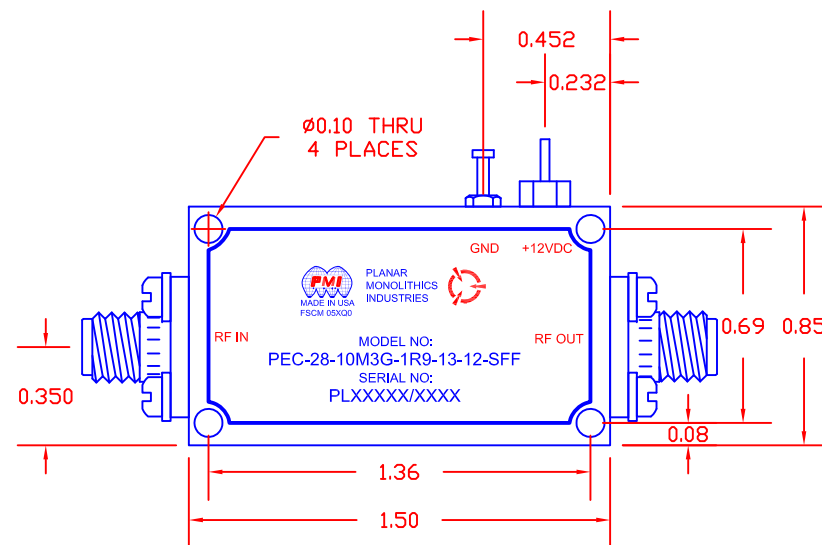
SPECIFICATIONS

- FREQUENCY RANGE: 0.01 TO 3.0 GHz
- NOISE FIGURE (FROM 50 MHz): 1.6 dB TYP., 1.9 dB MAX.
- SMALL SIGNAL GAIN @25°C: 28 dB MIN., 30 dB TYP., 32 dB MAX.
- GAIN FLATNESS: ± 0.75 dB TYP., ± 1.0 dB MAX.
- GAIN VARIATION: ± 1.25 dB TYP.
- P1dB COMPRESSION POINT: 10 dBm MIN., 13 dBm TYP.
- OUTPUT IP3: 20 dBm MIN., 23 dBm TYP.
- INPUT VSWR: 1.5:1 TYP., 1.8:1 MAX.
- OUTPUT VSWR: 1.7:1 TYP., 2.0:1 MAX.
- REVERSE ISOLATION: 40 dB MIN., 50 dB TYP.
- SPURIOUS: -60 dBc TYP.
- RF INPUT POWER: $+10$ dBm MAX
- IN/OUT CONNECTORS: SMA FEMALE
- DC POWER CONNECTOR: FEEDTHRU PIN
- DC SUPPLY: $+12$ TO $+15$ VDC @ 120 mA MAX
- SIZE: (L) 1.5" X (W) 0.85" X (H) 0.375"
- 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.
NOTE: MOUNTING SURFACE TO BE FREE OF PAINT



REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	1	PRELIMINARY	04/25/17	

MECHANICAL OUTLINE



PMI CONFIDENTIAL AND PROPRIETARY

ENVIRONMENTAL RATINGS

- TEMPERATURE: -40°C TO $+75^{\circ}\text{C}$ (OPERATING)
 -55°C TO $+85^{\circ}\text{C}$ (STORAGE)
- HUMIDITY: MIL-STD-202F, METHOD 103B COND. B
- SHOCK: MIL-STD-202F, METHOD 213B COND. B
- VIBRATION: MIL-STD-202F, METHOD 204D COND. B
- ALTITUDE: MIL-STD-202F, METHOD 105C COND. B
- TEMPERATURE CYCLE: MIL-STD-202F, METHOD 107D COND. A

ALL DIMENSIONS ARE IN INCHES
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

PLANAR MONOLITHICS INDUSTRIES, INC.

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ISO 9001 CERTIFIED



APPROVALS		DATE		TITLE	
DRAWN		DATE		PRODUCT FEATURE	
CHECKED		DATE		PEC-28-10M3G-1R9-13-12-SFF	
ISSUED		DATE		REV. A1	
SIZE		FSCM NO.		DWG NO.	
A		05XQ0		PRELIMINARY	
SCALE		N:S		SHEET	
				1 OF 1	