

DESCRIPTION

PMI MODEL: PEC-20-200M6G-3R0-25-SFF IS A 200 MHz TO 6.0 GHz LOW NOISE AMPLIFIER. THIS AMPLIFIER HAS A GAIN OF 20 dB WITH ± 1.5 dB FLATNESS, OP1dB OF +25 dBm MINIMUM AND A NOISE FIGURE OF 3.5 dB.

THIS MODEL PROVIDES THE FOLLOWING PERFORMANCE:

SPECIFICATIONS

- FREQUENCY RANGE: 200 MHz TO 6.0 GHz
- GAIN: 20 dB NOMINAL
- GAIN FLATNESS: ± 1.5 dB TYPICAL
- NOISE FIGURE: 6 dB TYPICAL @ 200 MHz
4.5 dB TYPICAL @ 500 MHz
3.5 dB TYPICAL @ 2 GHz
4.0 dB TYPICAL @ 6 GHz
- OP1dB: +25 dBm MINIMUM
- VSWR (IN/OUT): 1.8:1 GOAL
- INPUT POWER: +15 dBm CW MAXIMUM
- CONNECTORS: SMA FEMALE (2X)
- DC SUPPLY: 575 mA @ +12 TO 15 VDC NOMINAL
- 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 TO BE FREE OF PAINT**

ENVIRONMENTAL RATINGS

- TEMPERATURE: -40 °C TO +85 °C (OPERATING)
-50 °C TO +125 °C (STORAGE)
- HUMIDITY: MIL-STD-202F, METHOD 103B COND. B
- SHOCK: MIL-STD-202F, METHOD 213B COND. B
- ALTITUDE: MIL-STD-202F, METHOD 105C COND. B
- TEMPERATURE CYCLE: MIL-STD-202F, METHOD 107D COND. A

NOTE: SPECIFICATIONS WILL VARY OVER OPERATING TEMPERATURE

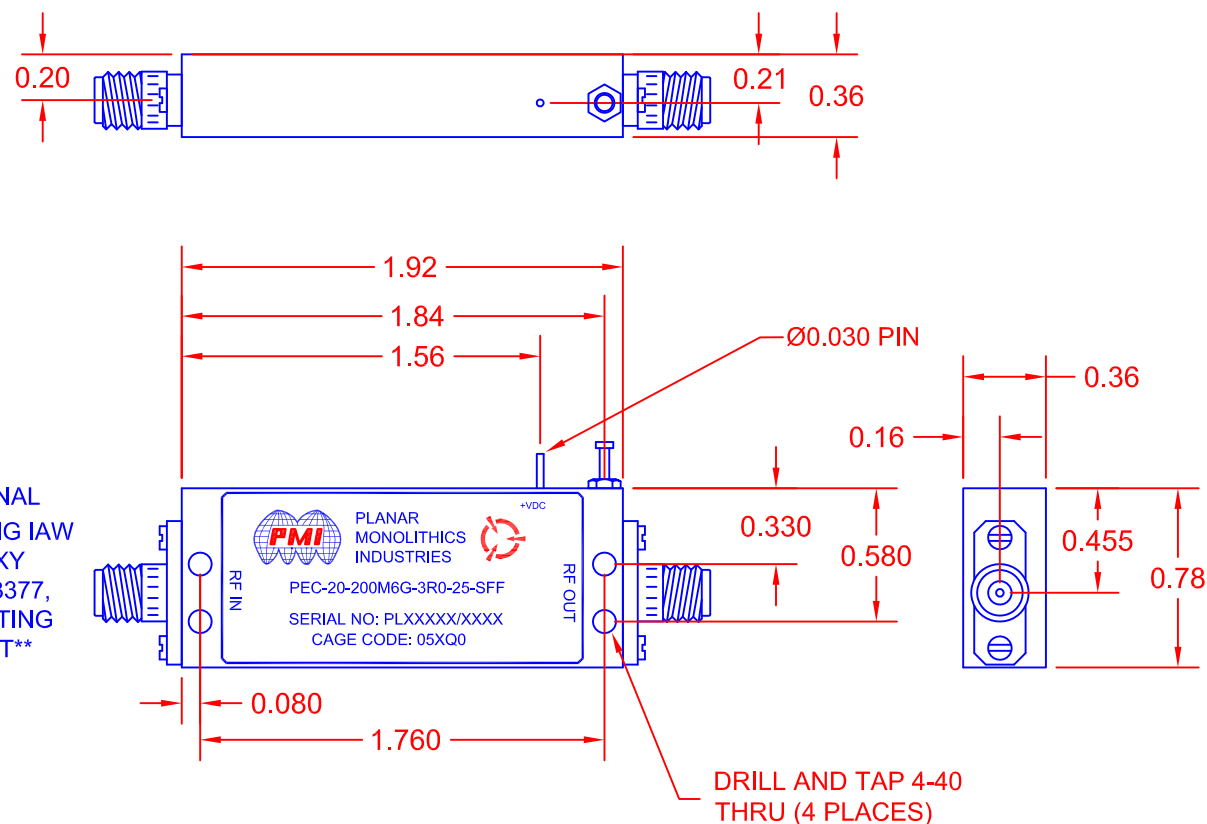
NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION

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

PMI CONFIDENTIAL AND PROPRIETARY

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	1	ORIGINAL RELEASE	05/11/15	
	A1	ECN # 15-0091	08/31/15	

MECHANICAL OUTLINE



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ISO 9001 CERTIFIED



APPROVALS		DATE		TITLE	
DRAWN <i>M. Berry</i>		05/11/15		PRODUCT FEATURE PEC-20-200M6G-3R0-25-SFF 200 MHz TO 6.0 GHz LOW NOISE AMPLIFIER	
CHECKED				SIZE A	REV. A1
ISSUED				FSCM NO. 05XQ0	DWG NO. 27025411
				SCALE N:S	SHEET 1 OF 1