

DESCRIPTION

LOW NOISE AMPLIFIER DESIGNED FOR MILITARY AND INDUSTRIAL APPLICATIONS. THIS AMPLIFIER IS SUPPLIED IN OUR EMI SHIELDED, HERMETICALLY SEALED HOUSING WITH SMA FEMALE CONNECTORS. THIS AMPLIFIER PROVIDES > 30DB GAIN WITH A NOISE FIGURE OF 1.5DB AND AN OP1DB OF +21DBM MINIMUM. THIS AMPLIFIER OPERATES ON +8VDC AND HAS A DC CURRENT DRAW OF 380MA MAXIMUM.

SPECIFICATIONS

- FREQUENCY RANGE: 2.0 to 4.0 GHZ
- GAIN: 30dB MINIMUM
- GAIN FLATNESS: ± 1.0 dB MAXIMUM
- NOISE FIGURE: 1.5dB TYPICAL
- OP1dB: +21dBm MINIMUM
- INPUT POWER: +12dBm CW MAXIMUM
- VSWR (IN/OUT): 2.0:1 MAXIMUM
- CONNECTORS: SMA (F) REMOVABLE
- DC SUPPLY (SEE NOTE): +7.8 to +8.2VDC @ 380mA MAXIMUM
- SIZE (L) 1.40" X (W) 0.78" X (H) 0.36"
EXCLUDING CONNECTORS
- FINISH PAINTED BLUE
MOUNTING SURFACE & MOUNTING HOLES TO BE FREE OF PAINT

NOTE: NO INTERNAL VOLTAGE REGULATION OR REVERSE VOLTAGE PROTECTION. +8.5VDC ABSOLUTE MAXIMUM OR DAMAGE WILL OCCUR.

FEATURES

- UNCONDITIONAL STABILITY
- EMI SHIELDED DESIGN
- HERMETICALLY SEALED

AVAILABLE OPTIONS

- VARIOUS PACKAGE TYPES
- VARIOUS CONNECTOR TYPES
- TEMPERATURE COMPENSATION
- GAIN AND PHASE MATCHING
- MIL-STD-883 SCREENING AVAILABLE

ENVIRONMENTAL RATINGS

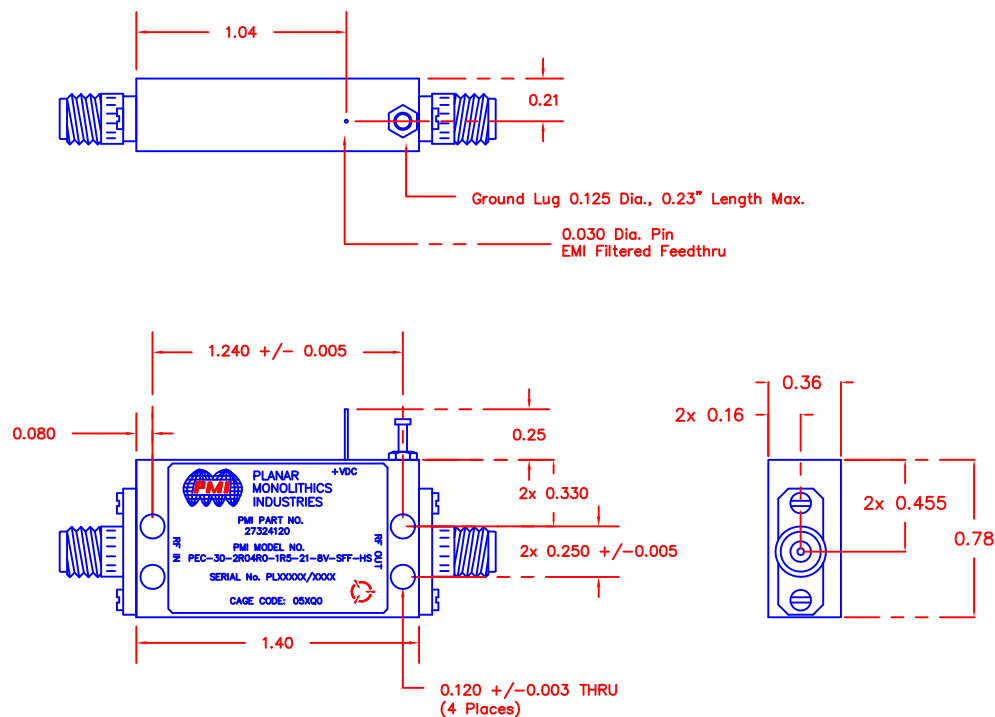
- TEMPERATURE: -54°C TO + 85°C (OPERATING - BASE PLATE)
-55°C TO +125°C (STORAGE)
- HUMIDITY: MIL-STD-202F, METHOD 103B COND. B
- SHOCK: MIL-STD-202F, METHOD 213B COND. B
- ALTITUDE: MIL-STD-202F, METHOD 105C COND. B
- TEMPERATURE CYCLE: MIL-STD-202F, METHOD 107D COND. A

NOTE: SPECIFICATIONS WILL VARY OVER OPERATING TEMPERATURE

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

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	1	INITIAL RELEASE	9/10/14	X.M.

MECHANICAL OUTLINE



PMI CONFIDENTIAL AND PROPRIETARY

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APPROVALS		DATE		TITLE	
DRAWN		9/10/14		PRODUCT FEATURE	
CHECKED				PEC-30-2R04R0-1R5-21-8V-SFF-HS	
ISSUED				PMI PART NO. 27324120	
SIZE		FSCM NO.		DWG NO.	
A		05XQ0		27024121	
SCALE		N:S		SHEET	
				1 OF 1	