

DESCRIPTION

PMI MODEL: PEC-42-500M40G-20-12-292MM IS A 500 MHz TO 40 GHz LOW NOISE AMPLIFIER THAT HAS A TYPICAL GAIN OF 42 dB WHILE MAINTAINING A ± 2.5 dB FLATNESS. THIS SMALL 1.37" x 1.00" x 0.60" PACKAGE IS OUTFITTED WITH 2.92 mm MALE CONNECTORS.

SPECIFICATIONS

- FREQUENCY RANGE: 500 MHz TO 40.0 GHz
- GAIN: 42 dB TYP
- GAIN FLATNESS: ± 2.5 dB TYP
- NOISE FIGURE: 5.5 dB TYP (UP TO 26.5 GHz)
- OP1dB: +19 dBm TYP (1.0 TO 18.0 GHz)
+17 dBm TYP (18.0 TO 40.0 GHz)
- PSAT: +23 dBm TYP (1.0 TO 18.0 GHz)
+20 dBm TYP (18.0 TO 40.0 GHz)
- INPUT POWER HANDLING: +17 dBm CW MAX
- VSWR (IN/OUT): 2.0:1 / 2.5:1 MAX
- DC SUPPLY: +12 TO +15 VDC @ 450 mA NOM
- SIZE: 1.37" (L) x 1.00" (W) x 0.60" (H)
- CONNECTORS: 2.92 mm MALE

ENVIRONMENTAL RATINGS

- TEMPERATURE: -55 °C TO +85 °C (OPERATING)
-65 °C TO +117 °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

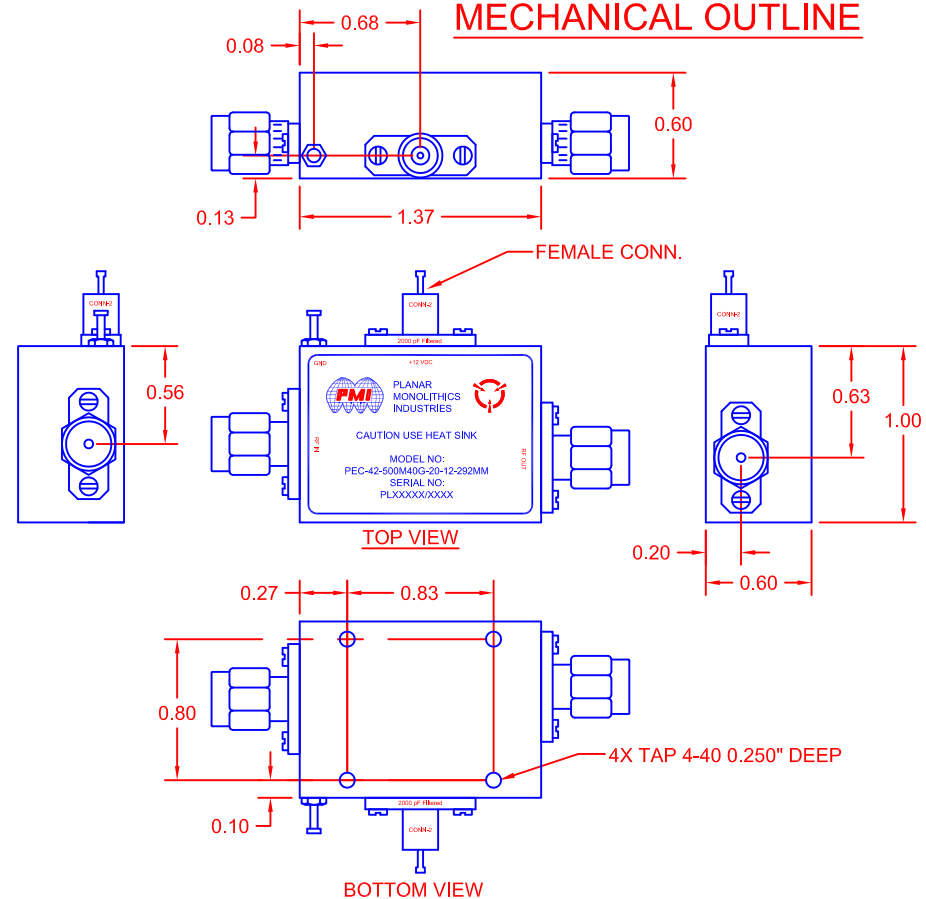
NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION

PMI CONFIDENTIAL AND PROPRIETARY

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

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	1	ORIGINAL RELEASE	05/15/13	
	A1	ECN # 13-0173	10/07/13	
	A2	ECN # 16-0047	03/11/16	

MECHANICAL OUTLINE



PLANAR MONOLITHICS INDUSTRIES, INC.

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ISO 9001 CERTIFIED



APPROVALS		DATE		TITLE	
DRAWN		M. Berry		PRODUCT FEATURE	
CHECKED		03/11/16		PEC-42-500M40G-20-12-292MM	
ISSUED					
SIZE	A	FSCM NO.	05XQ0	DWG NO.	27019463
SCALE	N:S			SHEET	1 OF 1