

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	-	PRELIMINARY	3/14/22	

Description:

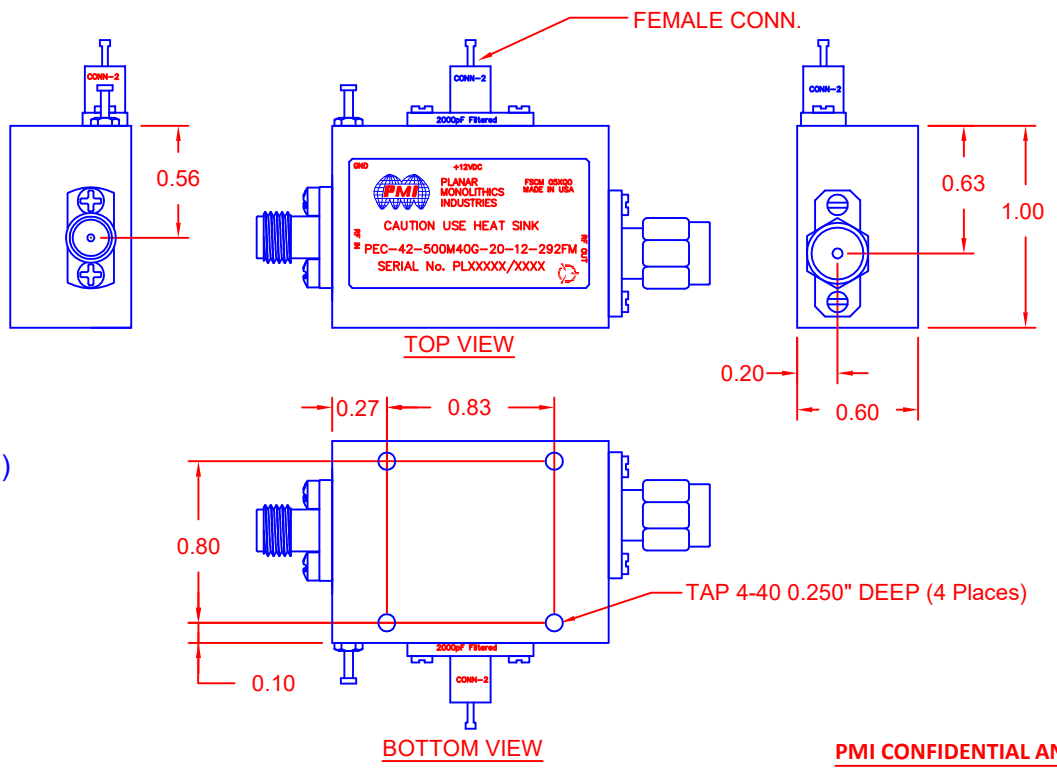
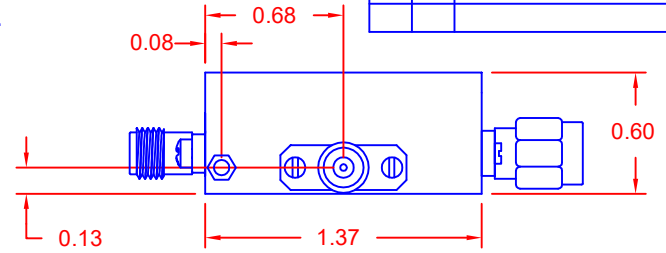
Model Number PEC-42-500M40G-20-12-292FM is a 500MHz - 40 GHz low noise amplifier. This amplifier has a gain of 42 dB with +/- 2.5 dB flatness.

This model provides the following performance.

Specifications:

- Frequency Range: 0.5 to 40 GHz
- Gain: 42 dB Typ.
- Gain Flatness: +/- 2.5 dB Typ.
- Noise Figure: 5.5 dB Typ. (Up to 20 GHz)
- OP1dB: +22 dBm Typ. 1 to 18 GHz
+19 dBm Typ. 18 to 40 GHz
- Input Power Handling: +17 dBm CW Max.
- VSWR Input/Output: 2.0:1 / 2.5:1 Max.
- DC Voltage Supply: +12 to +15 VDC
- DC Current Draw: 450 mA Nominal

- Size: 1.37" (L) X 1.00" (W) X 0.60" (H)
- Connectors: IN - 2.92mm (F)
OUT - 2.92mm (M)



Environmental Ratings:

- Temperature: -55 to +85°C (Operating)
-65 to +117°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.
- Vibration: MIL-STD-202F, METHOD 204D COND B.

Note: The above specifications may change over 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

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APPROVALS		DATE	TITLE		
DRAWN		3/14/22	OUTLINE DRAWING		
CHECKED			PEC-42-500M40G-20-12-292FM		
ISSUED			SIZE	FSCM NO.	DWG NO.
			A	05XQ0	PRELIMINARY
			SCALE	N:S	SHEET 1 OF 1