

DESCRIPTION:

PMI MODEL NUMBER PEC-50-500M40G-20-12-292FF-BG-OPT250M IS A 250 MHz TO 40 GHz LOW NOISE AMPLIFIER. THIS AMPLIFIER HAS A GAIN OF 47 dB WITH ±2.5 dB FLATNESS.

ZONE	REV.	DESCRIPTION	DATE	APPROVED
	A1	ORIGINAL RELEASE	1/28/2025	
	B1	ECN # 25-0175	6/9/2025	

SPECIFICATIONS:

- FREQUENCY RANGE:..... 250 MHz TO 40 GHz
- GAIN:..... 47 dB NOM / 45 dB MIN
- GAIN FLATNESS:..... ±2.5 dB MAX (@ +25°C TO +85°C)
±3 dB MAX (@ -55°C TO +25°C)
- NOISE FIGURE:..... 5.5 dB TYP / 7.0 dB MAX
- OP1dB:..... +21 dBm MIN (250 MHz TO 10 GHz)
+19 dBm MIN (10 GHz TO 18 GHz)
+16 dBm MIN (18 GHz TO 40 GHz)
- PSAT:..... +27 dBm MAX
- RF INPUT (ABSOLUTE MAX):..... +23 dBm (250 MHz TO 26 GHz)
+20 dBm (26 GHz TO 40 GHz)
- VSWR (INPUT/OUTPUT):..... 2.2:1 / 2.5:1 MAX
- DC VOLTAGE SUPPLY:..... +12 TO +15 VDC
- DC CURRENT DRAW:..... 550 mA NOM / 650 mA MAX (Iq)
- CONNECTORS (INPUT/OUTPUT):..... 2.92mm (F)
- FINISH:..... GOLD PLATED



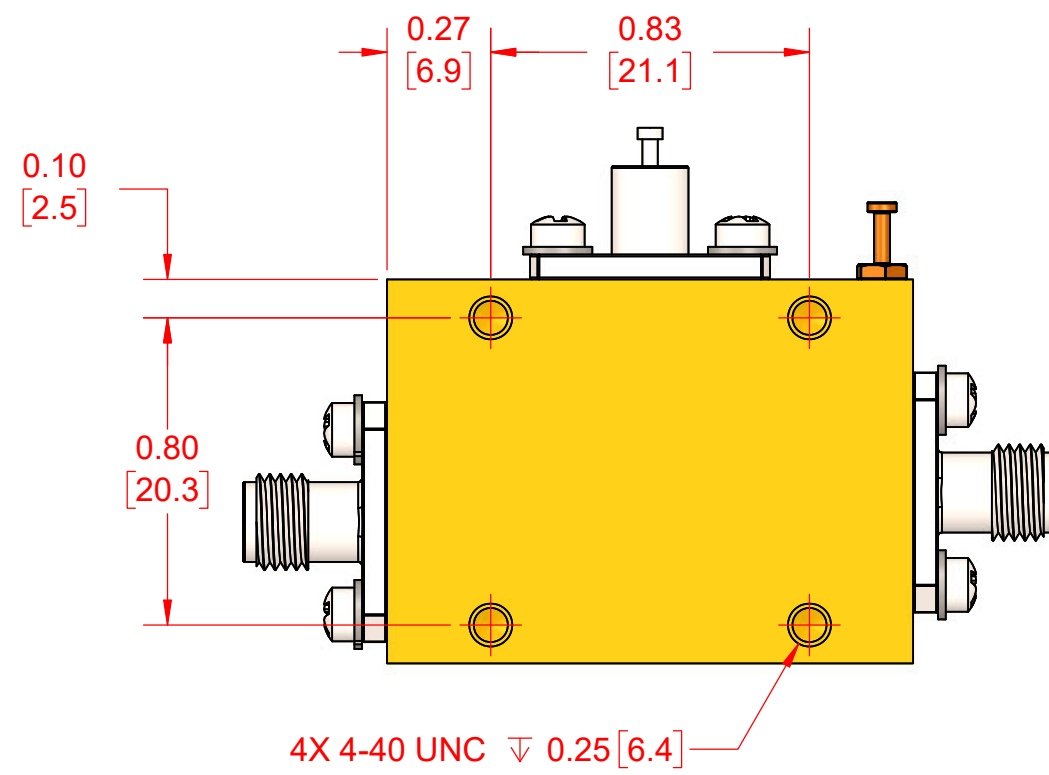
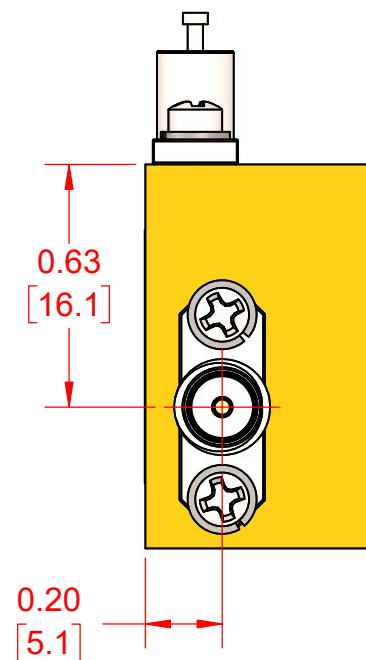
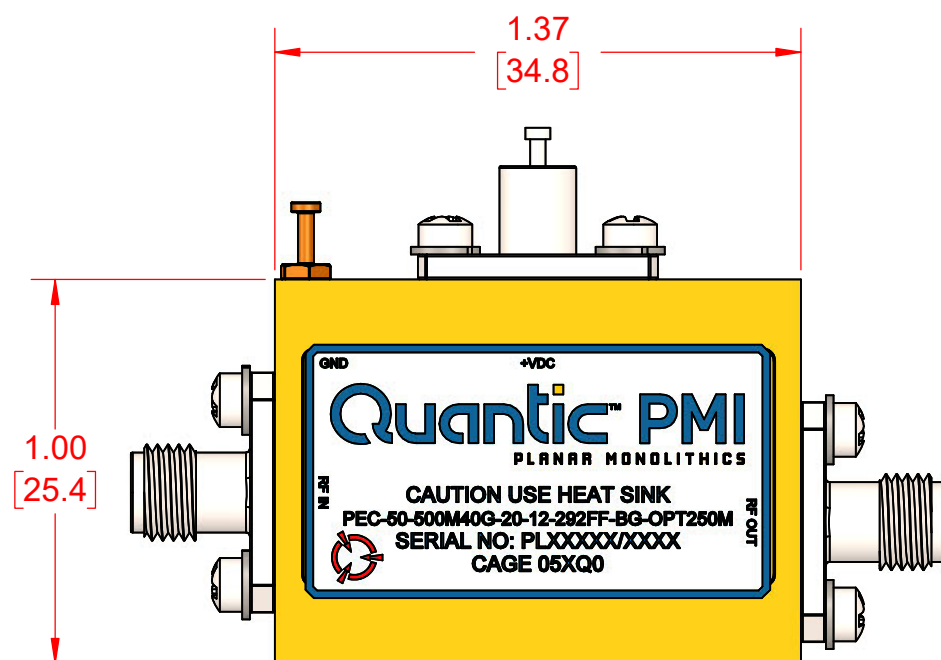
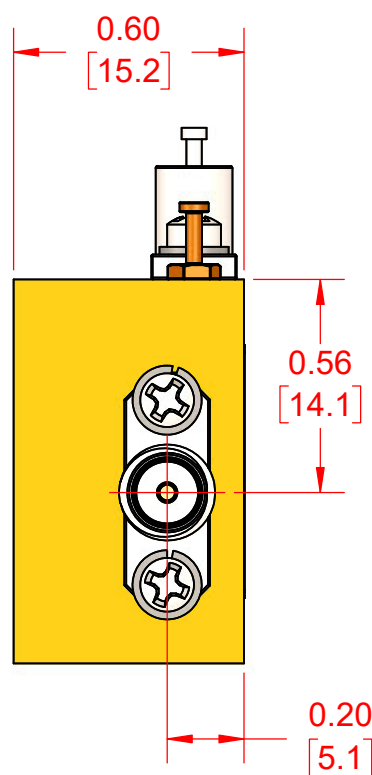
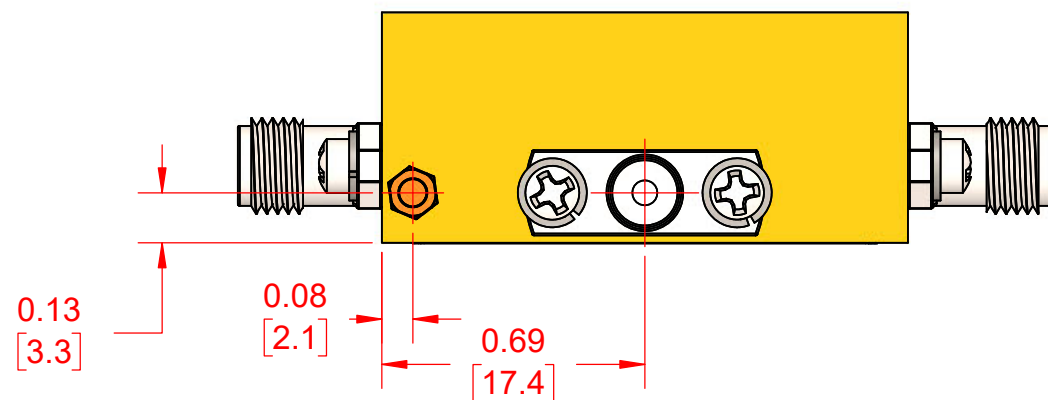
ENVIRONMENTAL RATINGS:

- 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

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NOTE: SPECIFICATIONS WILL VARY OVER TEMPERATURE
NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS DECIMALS ANGLES ± .XX ± 0.02 ± .XXX ± 0.01					Quantic PMI PLANAR MONOLITHICS 7309-A GROVE ROAD FREDERICK MARYLAND 21704 USA TEL: (301) 662-5019, FAX: (301) 662-1731 WEB: WWW.QUANTICPMI.COM, EMAIL: SALES@QUANTICPMI.COM ISO 9001 CERTIFIED										
			APPROVALS		DATE		TITLE OUTLINE PEC-50-500M40G-20-12-292FF-BG-OPT250M								
			DRAWN J ESCANO		1/28/2025										
			REDRAWN												
			ISSUED				SIZE B			FSCM NO. 05XQ0		DWG NO. 27050580		REV. B1	
							SCALE 3:1						SHEET 1 OF 2		



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TITLE			
OUTLINE			
PEC-50-500M40G-20-12-292FF-BG-OPT250M			
SIZE	FSCM NO.	DWG NO.	REV.
B	05XQ0	27050580	B1
SCALE 2:1		SHEET 2 OF 2	