

DESCRIPTION:

PMI MODEL NUMBER PEC-30-500M40G-20-12-292FF-OPT250M IS A 250 MHz TO 40 GHz LOW NOISE AMPLIFIER. THIS AMPLIFIER HAS A GAIN OF 25 dB WITH ±2.0 dB FLATNESS.

ZONE	REV.	DESCRIPTION	DATE	APPROVED
	A1	ORIGINAL RELEASE	1/30/2025	
	A2	ECN # 25-0191	6/19/25	

SPECIFICATIONS:

- FREQUENCY RANGE:..... 250 MHz TO 40 GHz
- GAIN:..... 25 dB NOM
- GAIN FLATNESS:..... ±2.0 dB MAX (+25°C TO +85°C)
±3.0 dB MAX (-55°C TO +25°C)
- NOISE FIGURE:..... 5.5 dB TYP (250 MHz TO 26.5 GHz)
7.0 dB MAX (26.5 GHz TO 40 GHz)
- OP1dB:..... +18 dBm MIN (250 MHz TO 10 GHz)
+17 dBm MIN (10 GHz TO 18 GHz)
+15 dBm MIN (18 GHz TO 40 GHz)
- PSAT:..... +25 dBm MAX (250 MHz TO 18 GHz)
+22 dBm MAX (18 GHz TO 40 GHz)
- RF INPUT (ABSOLUTE MAX):..... +23 dBm (250 MHz TO 26 GHz)
+20 dBm (26 GHz TO 40 GHz)
- VSWR (INPUT/OUTPUT):..... 2.0:1 / 2.5:1 MAX
- DC VOLTAGE SUPPLY:..... +12 TO +15 VDC
- DC CURRENT DRAW:..... 400 mA MAX (Iq)
- CONNECTORS (INPUT/OUTPUT):..... 2.92mm (F)
- FINISH:..... GOLD PLATED



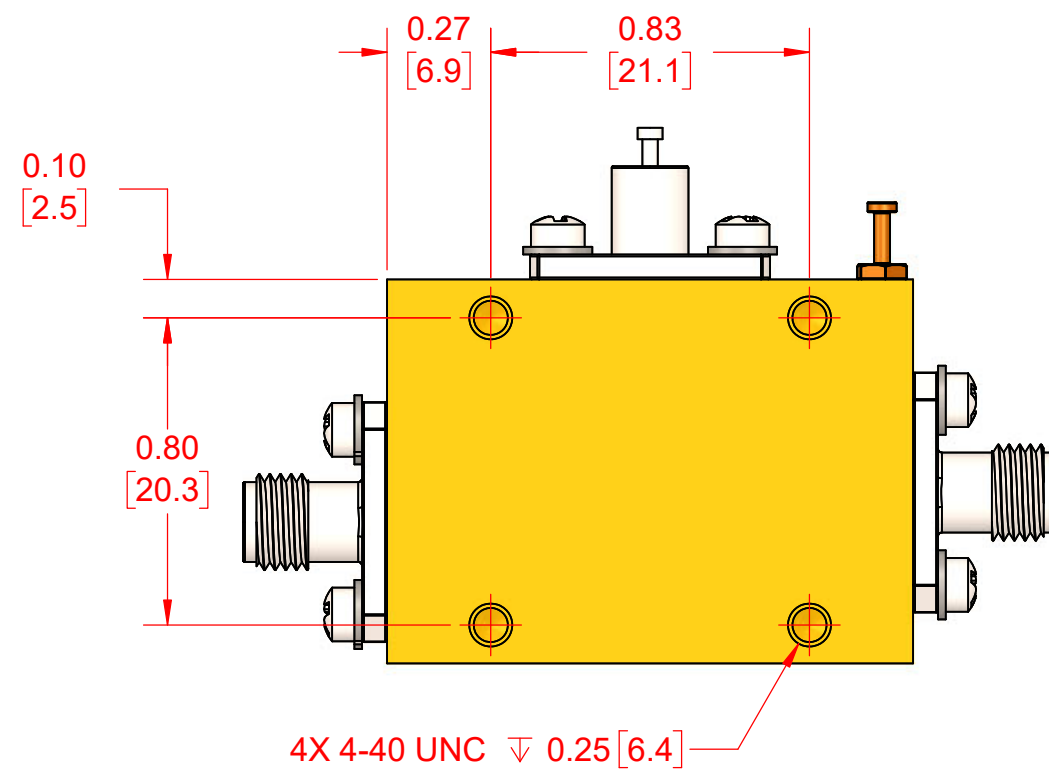
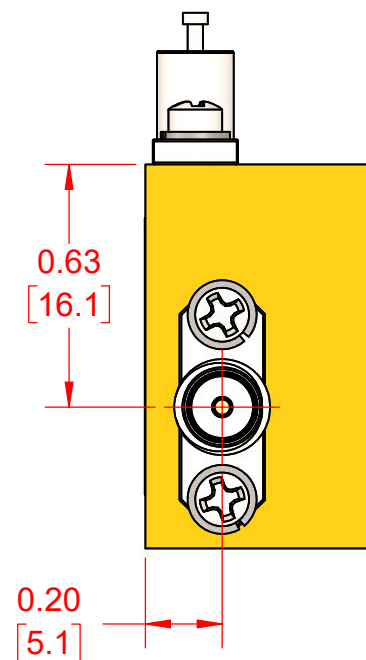
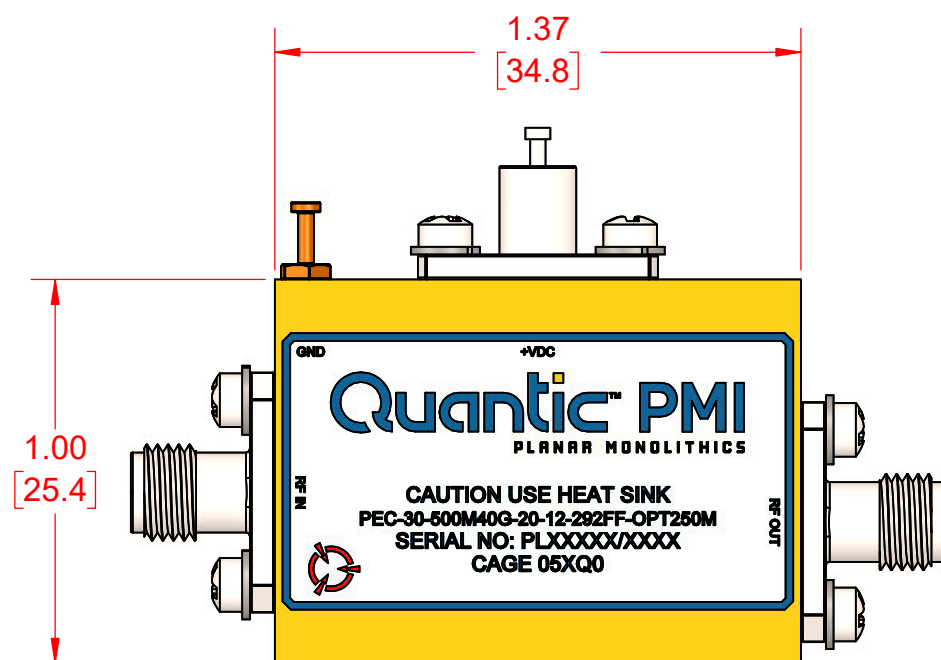
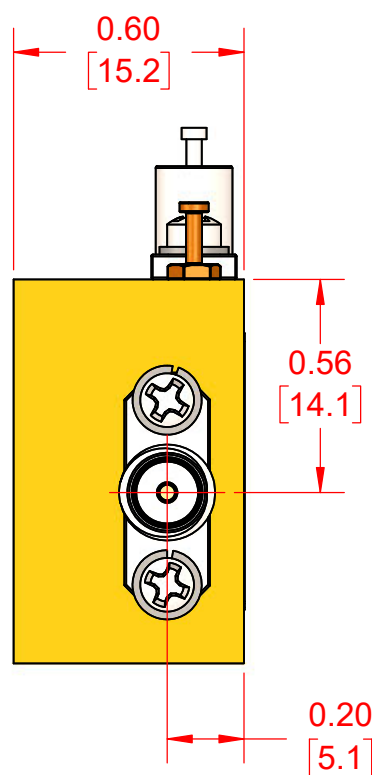
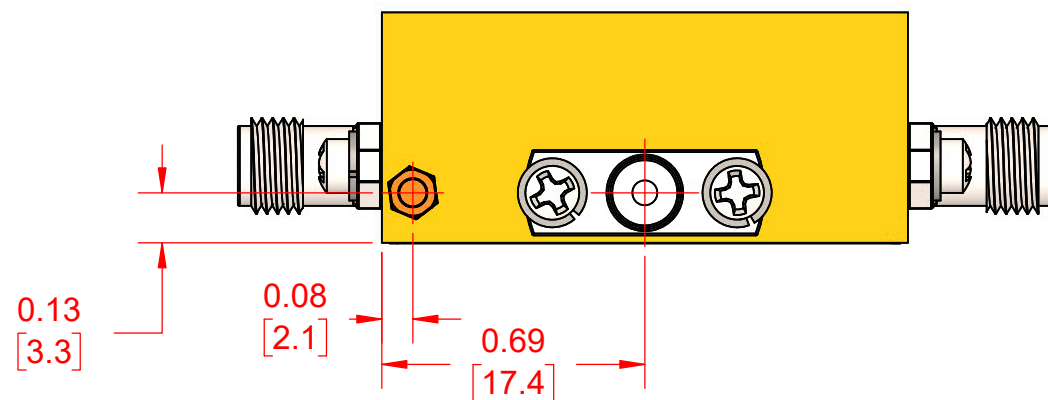
ENVIRONMENTAL RATINGS:

- 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

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

PMI CONFIDENTIAL AND PROPRIETARY

					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										
			DRAWN J ESCANO		1/30/2025												
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: <table><tr><td>FRACTIONS</td><td>DECIMALS</td><td>ANGLES</td></tr><tr><td>±</td><td>.XX ± 0.02</td><td>±</td></tr><tr><td></td><td>.XXX ± 0.01</td><td></td></tr></table>			FRACTIONS	DECIMALS	ANGLES	±	.XX ± 0.02	±		.XXX ± 0.01		REDRAWN		PEC-30-500M40G-20-12-292FF-OPT250M			
			FRACTIONS	DECIMALS	ANGLES												
			±	.XX ± 0.02	±												
	.XXX ± 0.01																
ISSUED				SIZE B	FSCM NO. 05XQ0	DWG NO. 27050600	REV. A2										
				SCALE 3:1			SHEET 1 OF 2										



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TITLE			
OUTLINE			
PEC-30-500M40G-20-12-292FF-OPT250M			
SIZE	FSCM NO.	DWG NO.	REV.
B	05XQ0	27050600	A2
SCALE 2:1		SHEET 2 OF 2	