

DESCRIPTION:

QUANTIC PMI MODEL PLO-48D4G-EXT IS AN EXTERNALLY REFERENCED PHASE LOCKED DIELECTRIC RESONATOR OSCILLATOR(PLDRO) WITH AN OUTPUT FREQUENCY OF 48.4 GHz.

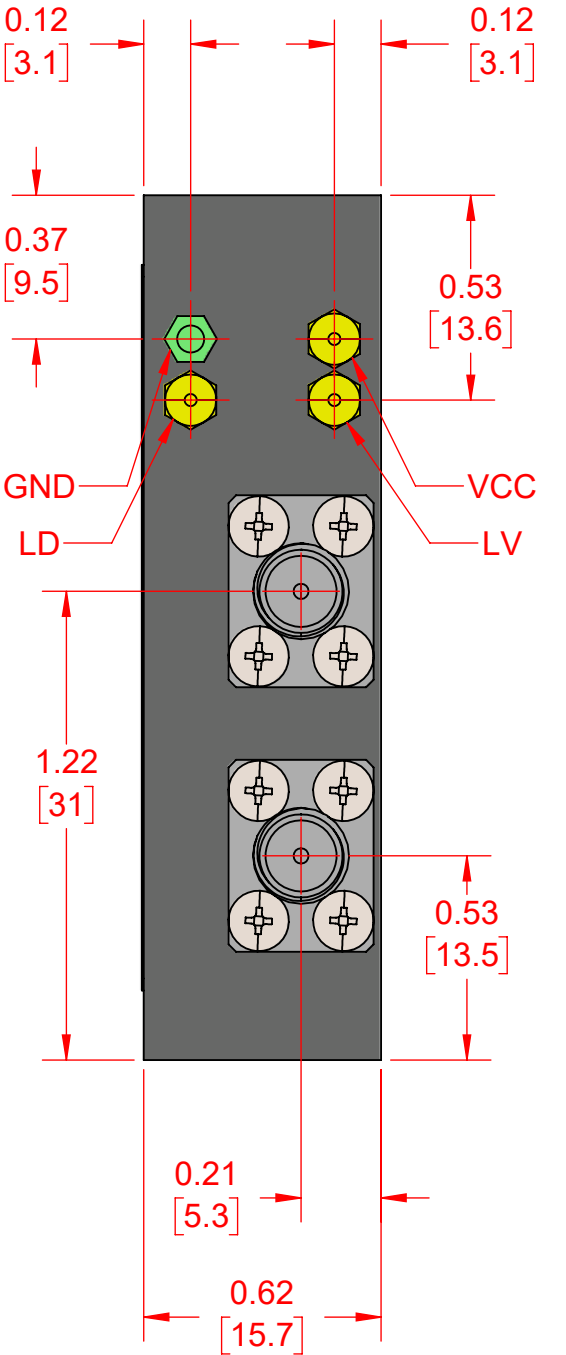
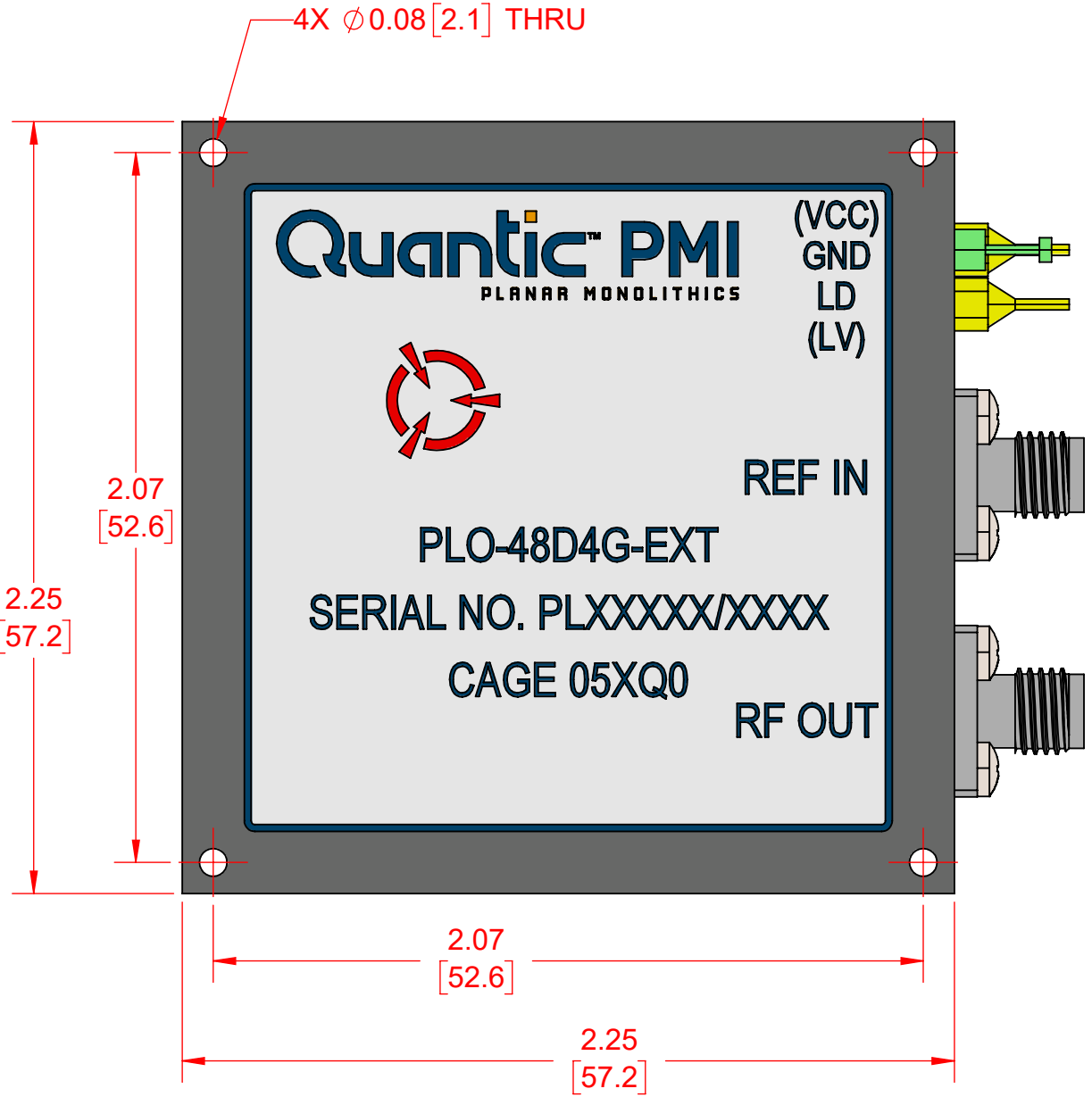
SPECIFICATIONS:

- OUTPUT FREQUENCY:..... 48.4 GHz
- REFERENCE FREQUENCY:..... 100 MHz (SINE WAVE)
- INPUT LEVEL:..... +3 TO +10 dBm
- OUTPUT LEVEL:..... +10 dBm MIN
- SPURIOUS:..... -60 dBc MAX
- HARMONICS:..... -20 dBc MAX
- LOAD VSWR:..... 1.5:1 MAX
- PHASE NOISE:..... -80 dBc MAX @ 100 Hz
-93 dBc MAX @ 1 kHz
-94 dBc MAX @ 10 kHz
-102 dBc MAX @ 100 kHz
-128 dBc MAX @ 1 MHz
- FREQUENCY STABILITY:..... SAME AS REFERENCE
- SUPPLY VOLTAGE:..... +12 V @ 500 mA TYP
- LOCK DETECTOR:..... TTL HIGH = LOCK
- REFERENCE PHASE NOISE:..... -137 dBc MAX @ 100 Hz
-155 dBc MAX @ 1 kHz
-160 dBc MAX @ 10 kHz
- CONNECTORS(IN/OUT):..... 2.4mm (RF OUT)
SMA FEMALE (REF IN)
- FINISH:..... NICKEL PLATED

ENVIRONMENTAL RATINGS:

- TEMPERATURE:..... -40°C TO +70°C (OPERATING)
-50°C TO +80°C (STORAGE)

ZONE	REV.	DESCRIPTION	DATE	APPROVED
	A1	ORIGINAL RELEASE	3/25/2025	



PMI CONFIDENTIAL AND PROPRIETARY

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

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			APPROVALS		DATE		TITLE OUTLINE PLO-48D4G-EXT	
			DRAWN S LANGE		3/25/2025			
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS DECIMALS ANGLES ± .XX ± 0.02 ± .XXX ± 0.01 ±			REDRAWN		SIZE B FSCM NO. DWG NO. REV. 05XQ0 27051180 A1			
			ISSUED					
							SCALE 2:1	