

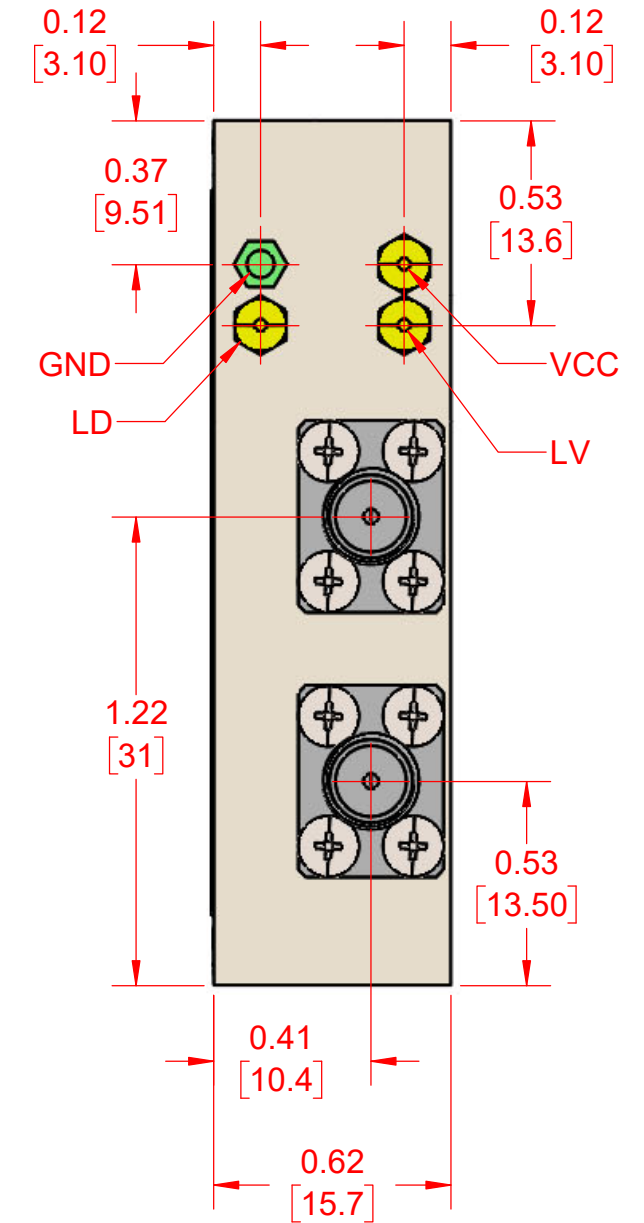
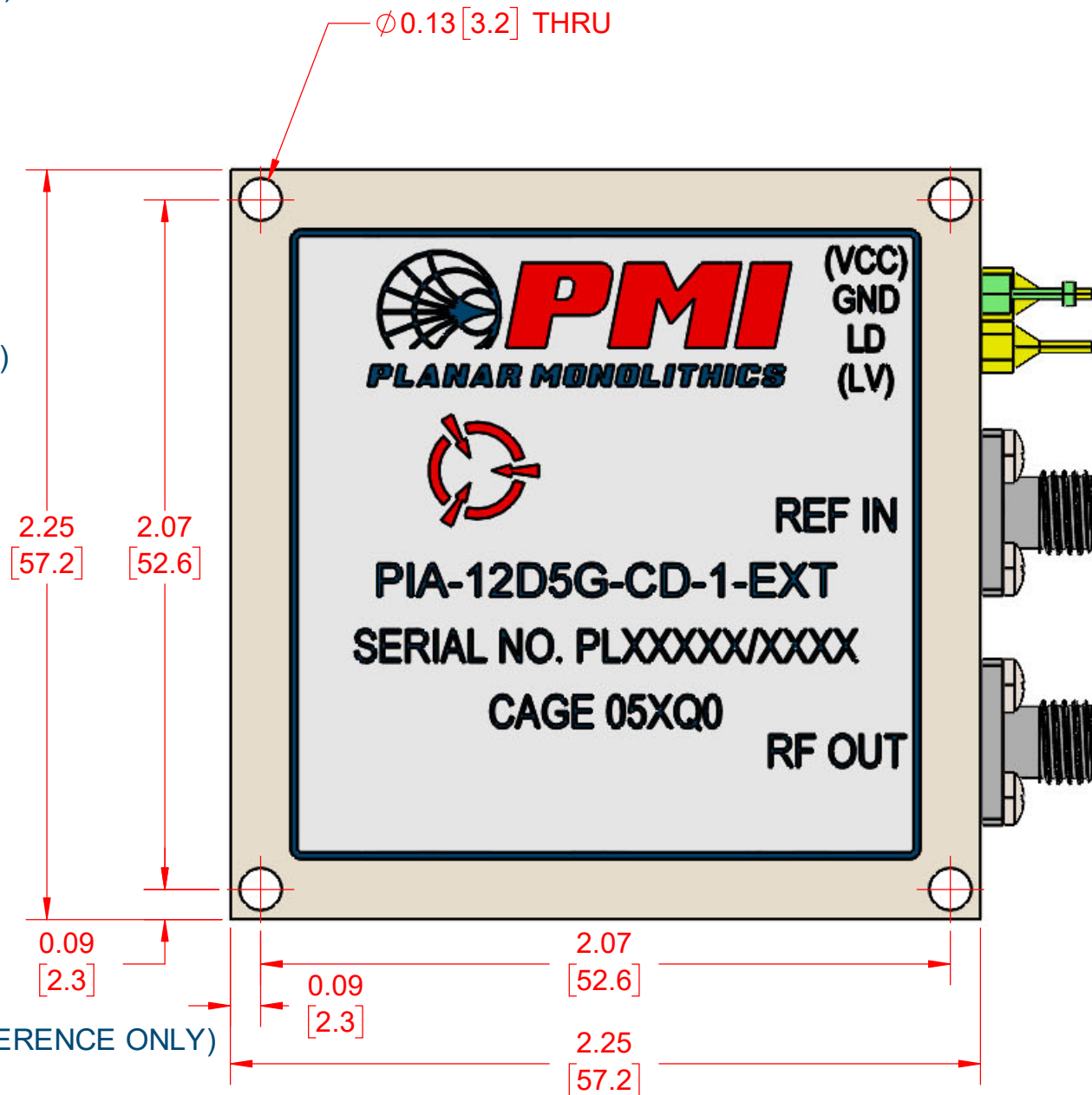
DESCRIPTION:

QUANTIC PMI MODEL PIA-12D5G-CD-1-EXT IS A PHASE LOCKED, DIELECTRIC RESONATOR OSCILLATOR WITH AN EXTERNAL REFERENCE (PLDRO) COVERING THE FREQUENCY OF 12.5 GHz

ZONE	REV.	DESCRIPTION	DATE	APPROVED
	A1	ORIGINAL RELEASE	6/15/2020	
	B1	ECN # 25-0213	7/21/2025	
	B2	ECN # 26-0020	2/11/2026	

SPECIFICATIONS:

- OUTPUT FREQUENCY:..... 12.5 GHz
- INPUT LEVEL:..... +3 dBm TO +10 dBm
- POWER OUPUT:..... 13 dBm MIN
- VSWR:..... 1:2 MAX
- EXTERNAL REFERENCE:..... 100 MHz (0 dBm, ±3 dBm)
- FREQUENCY STABILITY:..... +3 ppm
- SPURIOUS:..... ≤-80 dBc MAX
- HARMONICS:..... ≤-25 dBc MAX
- PHASE NOISE:..... ≤-108 dBc/Hz @ 1 kHz
 ≤-115 dBc/Hz @ 10 kHz
 ≤-120 dBc/Hz @ 100 kHz
 ≤-140 dBc/Hz @ 1 MHz
- REFERENCE PHASE NOISE:..... -155 dBc/Hz @ 1000 Hz
 -160 dBc/Hz @ 10 kHz
- DC VOLTAGE SUPPLY:..... +15 V
- DC CURRENT DRAW:..... 300 mA MAX
- ALARM (LD):..... TTL HIGH TO LOW
- CONNECTORS:..... SMA (F)
- FINISH:..... NICKEL PLATED
- PHASE VOLTAGE (PHV):..... DC VOLTAGE (FOR REFERENCE ONLY)



ENVIRONMENTAL RATINGS:

- TEMPERATURE:..... -40°C TO +70°C (OPERATING)
 -55°C TO +80°C (STORAGE)
- HUMIDTY:..... MIL-STD-202, METHOD 103B COND B.
- SHOCK:..... MIL-STD-202, METHOD 213B 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

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS DECIMALS ANGLES ± .XX ± 0.02 ± .XXX ± 0.01		APPROVALS DATE DRAWN 6/15/2020 REDRAWN ISSUED		 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	
		TITLE OUTLINE PIA-12D5G-CD-1-EXT		SIZE B	FSCM NO. 05XQ0
		DWG NO. 27039140		REV. B2	
		SCALE 2:1		SHEET 1 OF 1	