

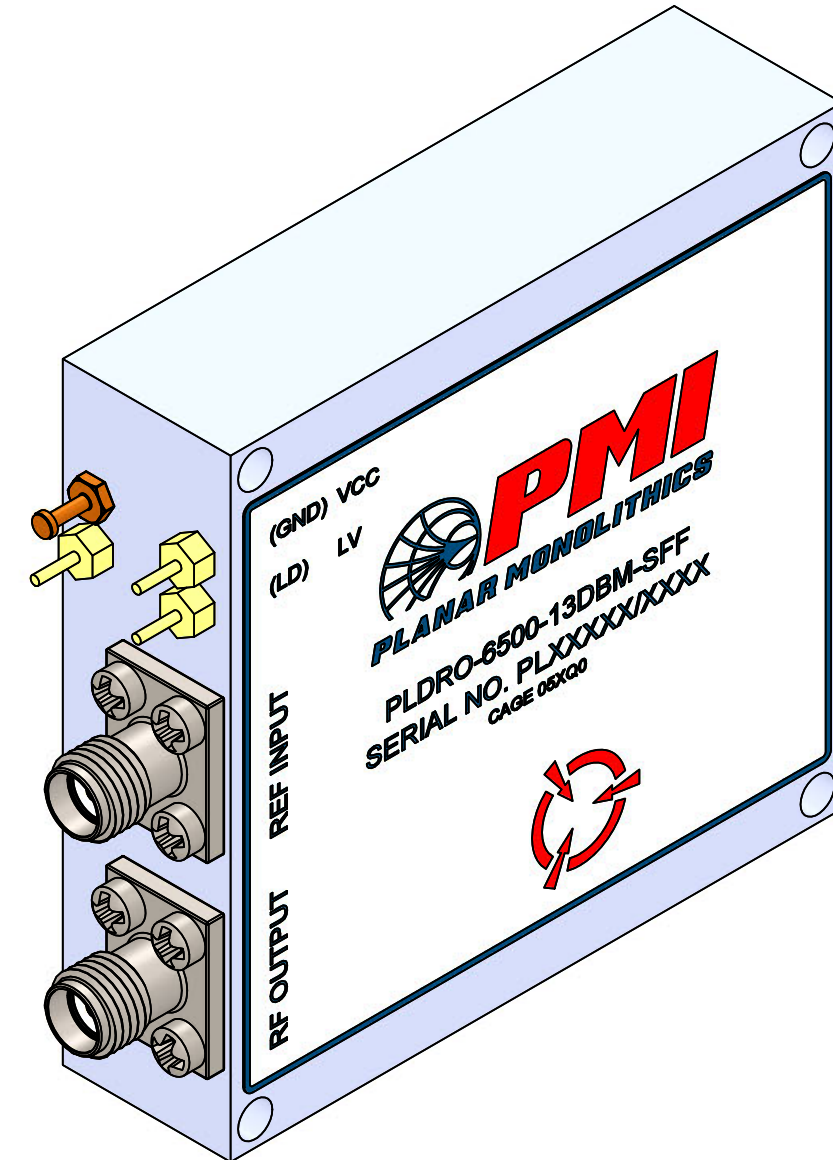
DESCRIPTION:

PMI MODEL NUMBER PLDRO-6500-13DBM-SFF IS A PHASE LOCKED MICROWAVE OSCILLATOR THAT PROVIDES A 13 dBm MINIMUM OUTPUT AT 6500 MHz.

| ZONE | REV. | DESCRIPTION | DATE | APPROVED |
|------|------|------------------|-----------|----------|
| | A1 | ORIGINAL RELEASE | 5/13/2025 | |
| | A2 | ECN # 26-0020 | 2/10/2026 | |

SPECIFICATIONS:

- OUTPUT FREQUENCY:..... 6500 MHz
- REFERENCE FREQUENCY:..... 100 MHz (SINEWAVE)
- INPUT LEVEL:..... -3 dBm to +3 dBm
- OUTPUT LEVEL:..... + 13 dBm MIN.
- SPURIOUS:..... -75 dBc MAX
- HARMONICS:..... -20 dBc MAX
- LOAD VSWR:..... 1:1.5 MAX
- PHASE NOISE:.....
 - ≤-116 dBc/Hz @ 1 kHz
 - ≤-123 dBc/Hz @ 10 kHz
 - ≤-123 dBc/Hz @ 100 kHz
 - ≤-135 dBc/Hz @ 1 MHz
- REFERENCE PHASE NOISE:.....
 - 130 dBc/Hz MAX @ 100 Hz
 - 155 dBc/Hz MAX @ 1 kHz
 - 165 dBc/Hz MAX @ 10 kHz
 - 165 dBc/Hz MAX @ 100 kHz
- FREQUENCY STABILITY:..... SAME AS REFERENCE
- SUPPLY VOLTAGE:..... +12V
- CURRENT:..... 300 mA MAX
- LOCK DETECTOR:..... TTL HIGH IN LOCK
- CONNECTOR:..... SMA FEMALE
- FINISH:..... NICKEL PLATED




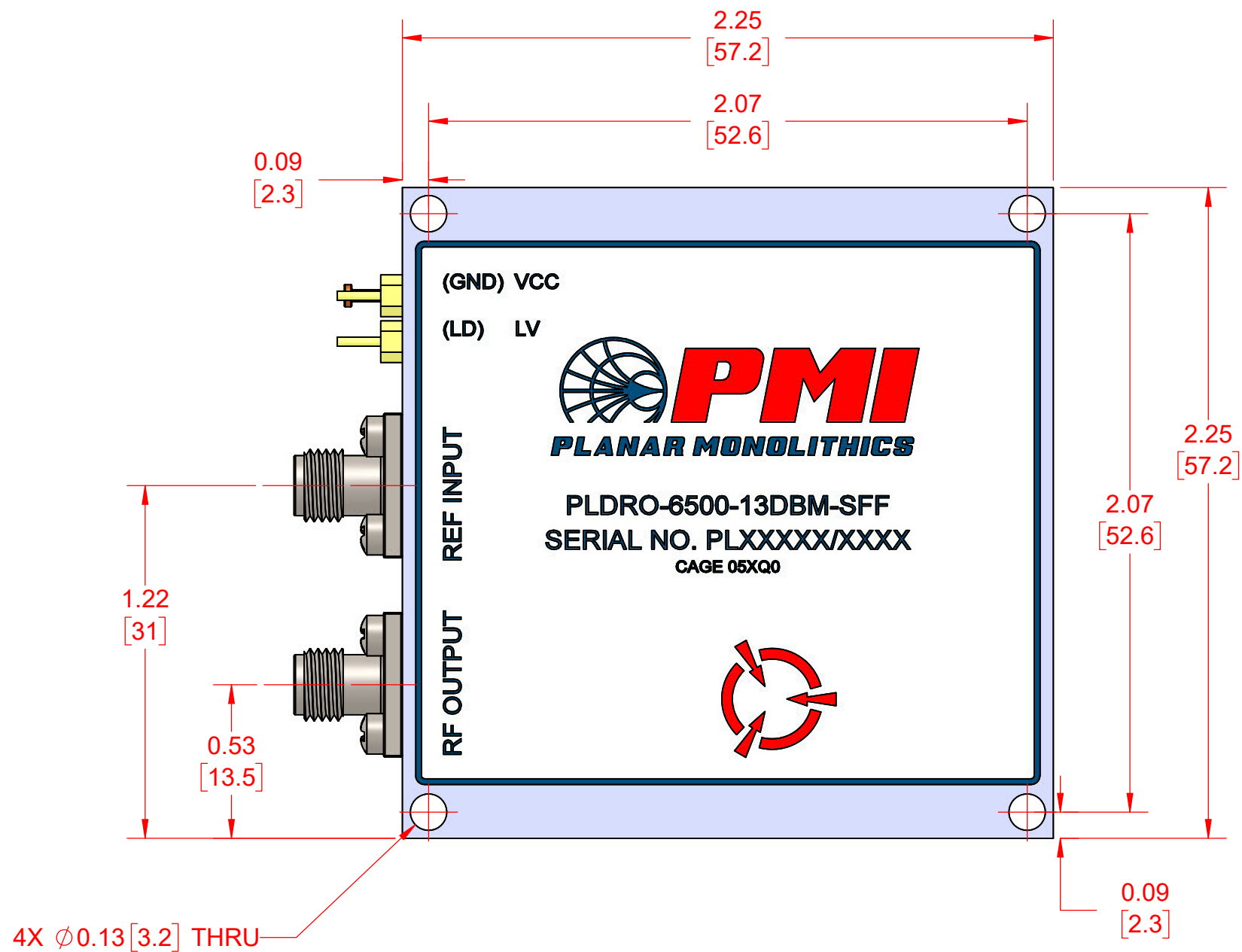
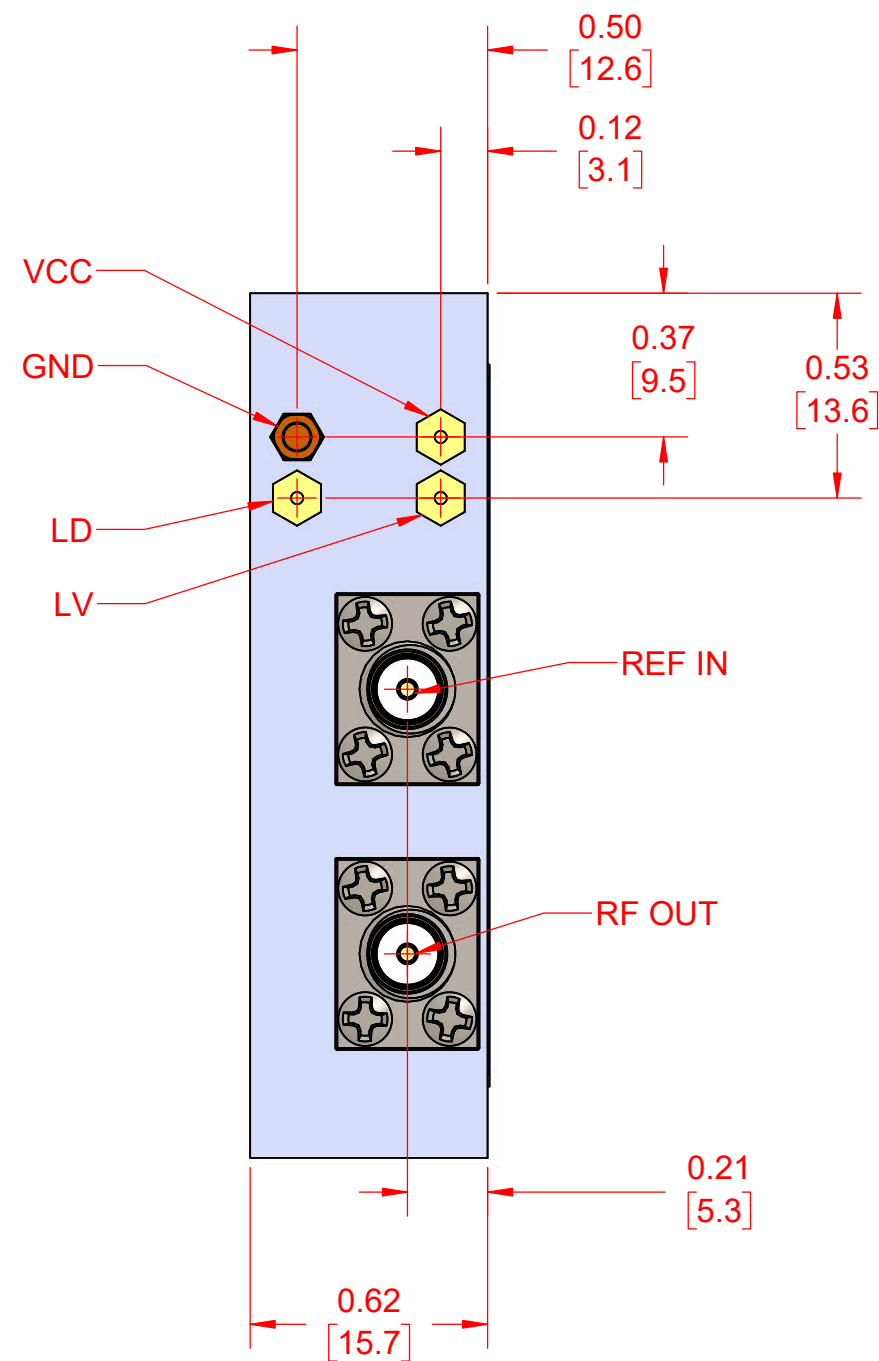
ENVIRONMENTAL RATINGS:

- TEMPERATURE:.....
 - 40°C TO +70°C (OPERATING)
 - 55°C TO +125°C (STORAGE)
- HUMIDITY:..... 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 |  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 | | | |
| | | DRAWN VP REDRAWN | 5/13/2025 | | | | TITLE OUTLINE PLDRO-6500-13DBM-SFF |
| | | ISSUED | | SIZE B | FSCM NO. 05XQ0 | DWG NO. 27043440 | REV. A2 |
| | | | | SCALE 2:1 | SHEET 1 OF 2 | | |



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|----------------------|----------|----------|--------------|
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| OUTLINE | | | |
| PLDRO-6500-13DBM-SFF | | | |
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| B | 05XQ0 | 27043440 | A2 |
| SCALE 2:1 | | | SHEET 2 OF 2 |