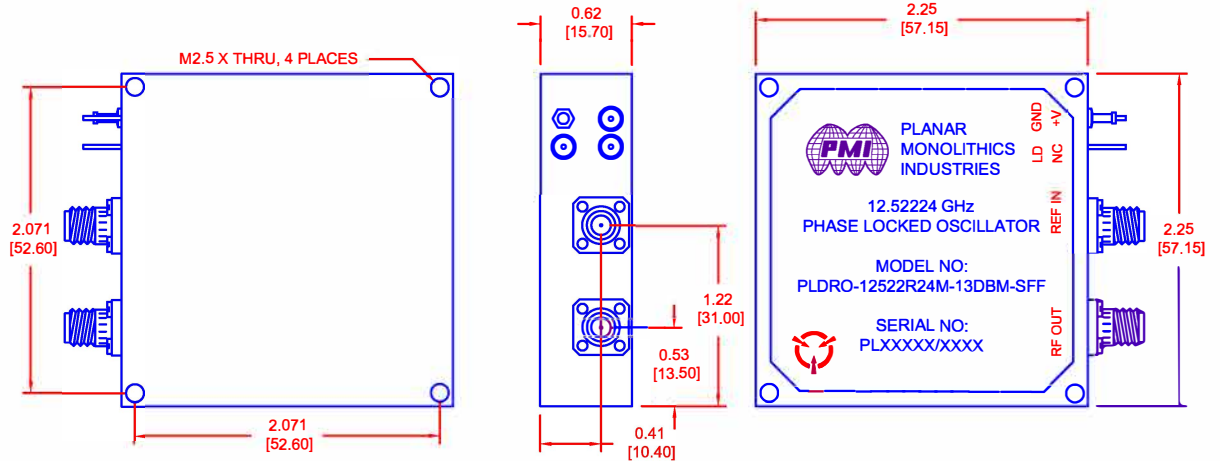


DESCRIPTION

PMI MODEL: PLDRO-12522R24M-13DBM-SFF IS A PHASE LOCKED MICROWAVE OSCILLATOR THAT PROVIDES A 13 dBm MINIMUM OUTPUT AT 12.52224 GHz WITH AN EXTERNAL REFERENCE OF 130.44 MHz.

SPECIFICATIONS

- FREQUENCY RANGE (fo): ----- 12.52224 GHz
- EXTERNAL REFERENCE: ----- 130.44 MHz
- REFERENCE INPUT POWER: ----- 0 ± 3 dBm
- REFERENCE PHASE NOISE (SSB): -
 - 122 dBc/Hz MIN @ 100 Hz
 - 139 dBc/Hz MIN @ 1 kHz
 - 153 dBc/Hz MIN @ 10 kHz
 - 158 dBc/Hz MIN @ 100 kHz
- OUTPUT POWER: ----- 13 dBm MIN
- SPURIOUS: ----- -70 dBc MAX IN BAND
- HARMONICS: ----- -20 dBc MAX
- PHASE NOISE (SSB): -----
 - 67 dBc/Hz MIN @ 100 Hz
 - 96 dBc/Hz MIN @ 1 kHz
 - 110 dBc/Hz MIN @ 10 kHz
 - 115 dBc/Hz MIN @ 100 kHz
 - 130 dBc/Hz MIN @ 1 MHz
- DC POWER: ----- +12 TO 15V @ 350 mA MAX
- LOCK DETECT: ----- TTL HIGH IN LOCK
- CONNECTORS: ----- RF: SMA FEMALE
POWER/PHASE LOCK: SOLDER PINS
- SIZE: ----- 2.25" x 2.25" x 0.62" EXCLUDING CONNECTORS
- FINISH: ----- CHEMICALLY COATED IAW
MIL-DTL-5541 TYPE 2, CLASS 3



REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	A1	ORIGINAL RELEASE	09/12/18	
	B1	MECHANICAL UPDATES	5/24/18	
	C1	MECHANICAL UPDATES	10/31/19	

MECHANICAL OUTLINE

ENVIRONMENTAL RATINGS

- TEMPERATURE: ----- -40 °C TO +85 °C (OPERATING)
-55 °C TO +85 °C (STORAGE)

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

ALL DIMENSIONS
ARE IN INCHES [mm]
TOLERANCES:
X.XX ± 0.020 [0.508]
X.XXX ± 0.010 [0.254]

PMI CONFIDENTIAL AND PROPRIETARY

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ISO 9001 CERTIFIED



APPROVALS		DATE	TITLE			REV.
DRAWN <i>M. Berry</i>		09/12/18	PRODUCT FEATURE PLDRO-12522R24M-13DBM-SFF 12.52224 GHz Phase Locked Oscillator			C1
CHECKED			SIZE	FSCM NO.	DWG NO.	
ISSUED			A	05XQ0	27034480	
			SCALE	N:S	SHEET	1 OF 1