

DESCRIPTION

PMI MODEL NO. PLO-19G-CD-1 IS A PHASE LOCKED OSCILLATOR WITH AN OUTPUT FREQUENCY OF 19 GHz AND A OUTPUT LEVEL OF +13 dBm MINIMUM. THIS MODEL IS OUTFITTED WITH SMA FEMALE CONNECTORS.

SPECIFICATIONS

- OUTPUT FREQUENCY: ----- 19 GHz
- REFERENCE FREQUENCY: ----- 100 MHz (SINAWAVE)
- INPUT LEVEL: ----- -3 ~ +3 dBm
- OUTPUT LEVEL: ----- +13 dBm MIN
- SPURIOUS: ----- -80 dBc MAX
- HARMONICS: ----- -25 dBc MAX
- $\frac{1}{2}$ f0 HARMONICS: ----- -65 dBc MAX
- LOAD VSWR: ----- 1:1.5
- PHASE NOISE @ 25°C: -----
 - 80 dBc/Hz @ 100 Hz MAX
 - 105 dBc/Hz @ 1 kHz MAX
 - 113 dBc/Hz @ 10 kHz MAX
 - 113 dBc/Hz @ 100 kHz MAX
 - 135 dBc/Hz @ 1 MHz MAX
- FREQUENCY STABILITY: ----- SAME AS REFERENCE
- MECH TUNING: ----- NONE
- SUPPLY VOLTAGE: ----- +12 V $\pm$ 10%
- CURRENT: ----- 300 mA MAX
- LOCK DETECTOR: ----- TTL HIGH - LOCK
- CONNECTOR: ----- RF CONNECTOR: SMA FEMALE
POWER: INSULATOR
- DIMENSIONS: ----- 2.25" x 2.25" x 0.62"

ENVIRONMENTAL RATINGS

- TEMPERATURE: -----
 - 40°C TO +85°C (OPERATING)
 - 55°C TO +125°C (STORAGE)
- REFERENCE PHASE NOISE: -----
 - 130 dBc/Hz @ 100 Hz MAX
 - 155 dBc/Hz @ 1 kHz MAX
 - 165 dBc/Hz @ 10 kHz MAX
 - 165 dBc/Hz @ 100 kHz MAX
- HUMIDITY: ----- 40°C TO $\pm$ 2°C, 90-95% RH PER MIL-STD-202G, METHOD 103B COND A
- SALT FOG: ----- MIL-STD-810D, METHOD 5.0.2 PROCEDURE 1
- VIBRATION: ----- 2h PER MIL-STD-202G, METHOD 214A COND J
- SHOCK: ----- SAWTOOTH 11 msec, MIL-STD-202G, METHOD 213 COND A
- ALTITUDE: ----- 70,000 ft, MIL-STD-202G, METHOD 103C COND C
- HERMETIC SEALING: ----- MIL-STD-202G, METHOD 112E COND D

NOTE: SPECIFICATIONS WILL VARY OVER OPERATING TEMPERATURE

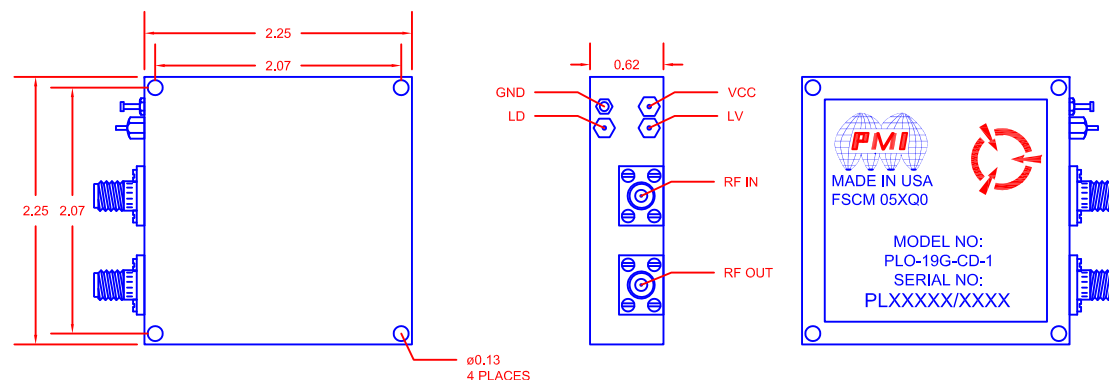
NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION

PMI CONFIDENTIAL AND PROPRIETARY

ALL DIMENSIONS
ARE IN INCHES [mm]
TOLERANCES:
X.XX $\pm$ 0.020
X.XXX $\pm$ 0.010

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	-	PRELIMINARY	11/27/2018	

MECHANICAL OUTLINE



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ISO 9001 CERTIFIED



		TITLE PRODUCT FEATURE PLO-19G-CD-1								
APPROVALS								DATE		
DRAWN <i>EW</i>								11/27/18		
REDRAWN				SIZE A	FSCM NO. 05XQ0	DWG NO. PRELIMINARY	REV. -			
ISSUED				SCALE N:S		SHEET 1 OF 1				