

Description:

PMI Model No. PIA-12D5G-CD-1-EXT is a Phase Locked, Dielectric Resonator Oscillator with External Reference (PLDRO) covering the frequency of 12.5 GHz.

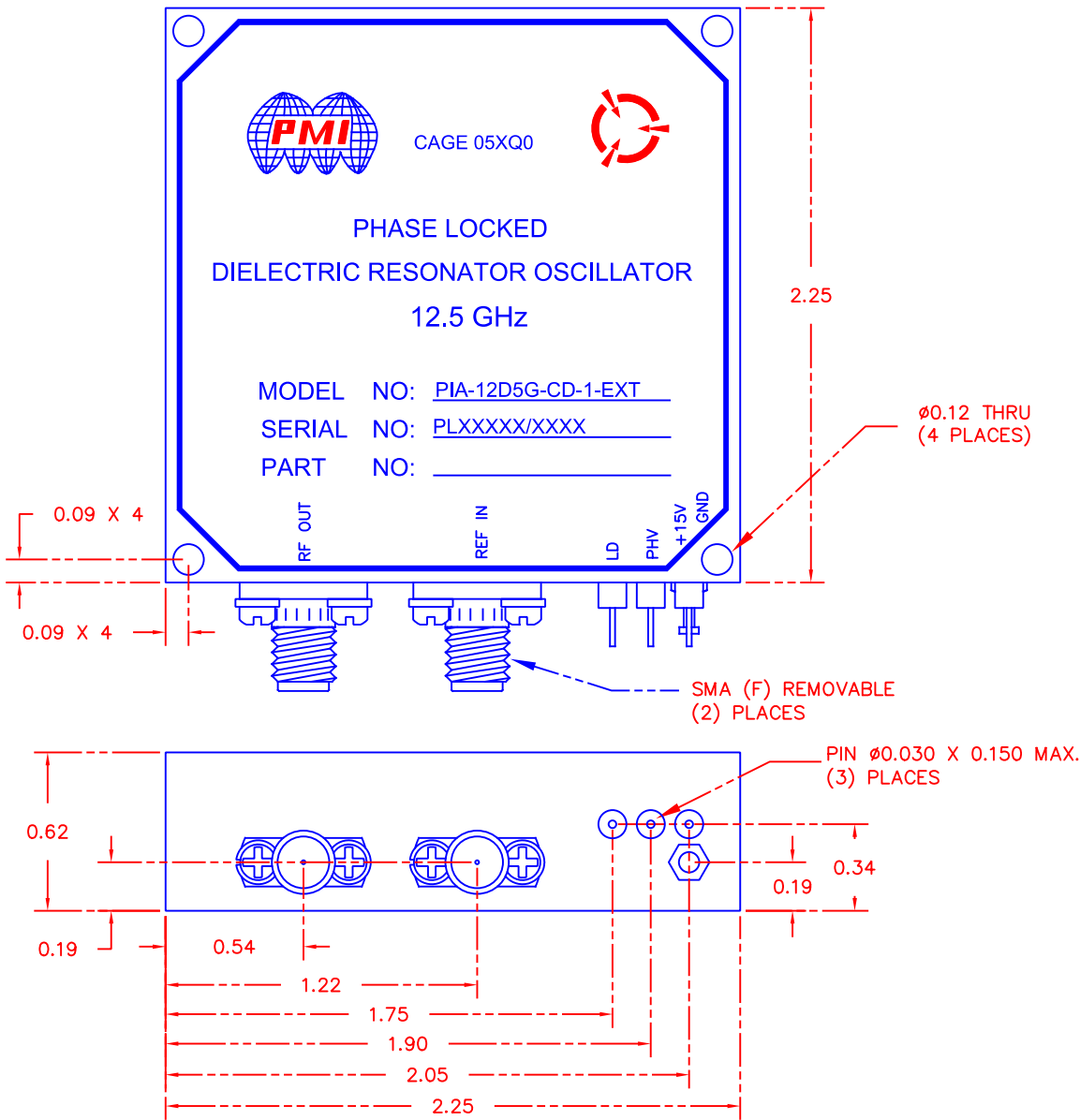
Specifications:

- Frequency Range: 12.5 GHz
- Power Output: 13 dBm Min
- VSWR: 1.4:1
- External Reference: 100 MHz (0 dBm, +/-3 dBm)
- Frequency Stability: ±3 ppm
- Spurious: <-80 dBc
- Harmonics: <-25 dBc
- Phase Noise @ Offset:
 - 10 Hz: -40 dBc/Hz
 - 100 Hz: -70 dBc/Hz
 - 1 kHz: -95 dBc/Hz
 - 10 kHz: -107 dBc/Hz
 - 100 kHz: -112 dBc/Hz
 - 1 MHz: -130 dBc/Hz
- DC Voltage Supply: +15V
- DC Current Draw: 300mA Max.
- Alarm (LD): TTL
 - Locked "1"
 - Unlocked "0"
- Connectors: SMA Female
- Finish: Nickel
- Phase Voltage (PHV): DC Voltage (For Reference Only)

Environmental Ratings:

- Temperature: -25°C to +70°C (Operating)
-55°C to +125°C (Storage)
- Humidity: MIL-STD-202F, METHOD 103B COND B.
- Shock: MIL-STD-202F, METHOD 213B COND B.
- Altitude: MIL-STD-202F, METHOD 105C COND B.
- Temperature Cycle: MIL-STD-202F, METHOD 107D COND A
- Note: The above specifications are subject to change or revision.

		REVISIONS		
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	A1	ORIGINAL RELEASE	7/2/20	
	B1	ECN # 25-0213	7/21/25	



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ALL DIMENSIONS ARE IN INCHES
TOLERANCES:
X.XX ±0.010
X.XXX ±0.005

APPROVALS		DATE	TITLE			
DRAWN		6/15/20	PRODUCT FEATURE			
CHECKED			PIA-12D5G-CD-1-EXT			
ISSUED			SIZE	FSCM NO.	DWG NO.	REV.
			A	05XQ0	27039140	B1
			SCALE	N:S	SHEET	1 OF 1