

Description:

PMI Model No. PIA-6D6G-SFF-EXREF is a Phase Locked, Dielectric Resonator Oscillator (PLDRO) covering the frequency of 6.6 GHz. This model is phase locked to an external 10MHz reference.

Specifications:

- Frequency Range: 6.6 GHz
- Power Output: 13 dBm Min
- VSWR: 1.4:1
- External Reference: 10 MHz
- Frequency Stability: ± 3 ppm
- Spurious: < -80 dBc
- Harmonics: < -25 dBc
- Phase Noise @ Offset: (See Sheet 2)
 - 10 KHz: $20 \log N + 3$ dBc/Hz *
 - 100 KHz: -120 dBc/Hz Typ.
 - 1 MHz: -140 dBc/Hz Typ.
- DC Voltage Supply: +15V
- DC Current Draw: 300mA Max.
- Alarm: TTL "1" when Locked
- Connectors: SMA Female
- Finish: Nickel

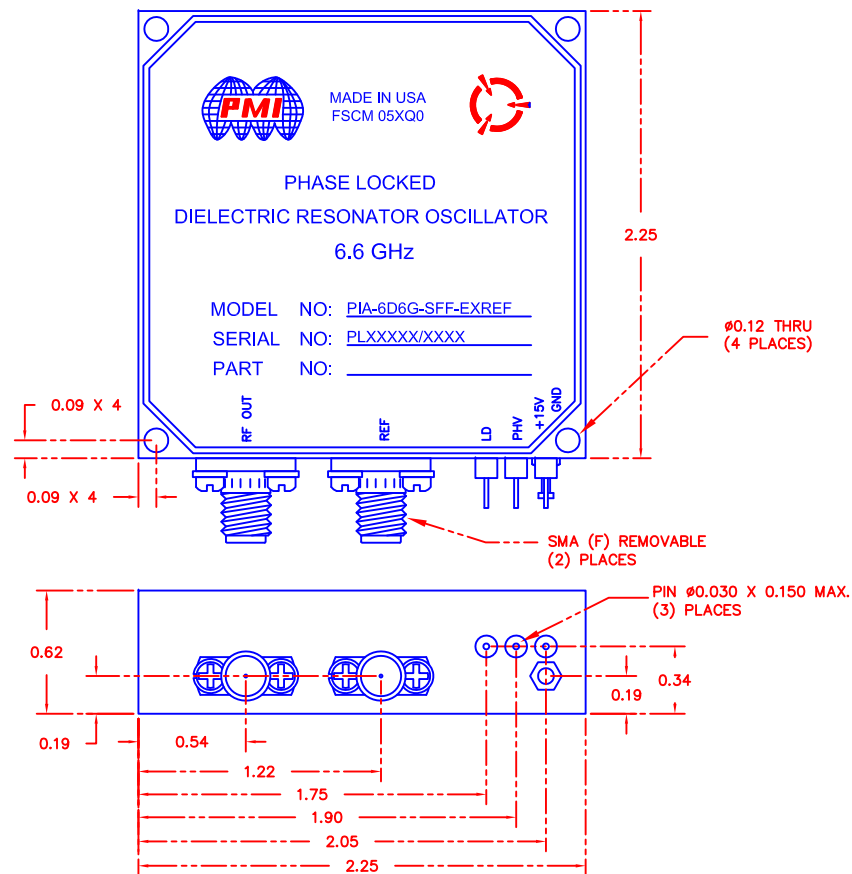
* $N = \text{Output Frequency} / \text{Reference Frequency}$

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
	-	PRELIMINARY	3/30/15	



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PLANAR MONOLITHICS INDUSTRIES, INC.

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ISO 9001:2008 CERTIFIED

ALL DIMENSIONS ARE IN INCHES
 TOLERANCES:
 X.XX ± 0.02
 X.XXX ± 0.010

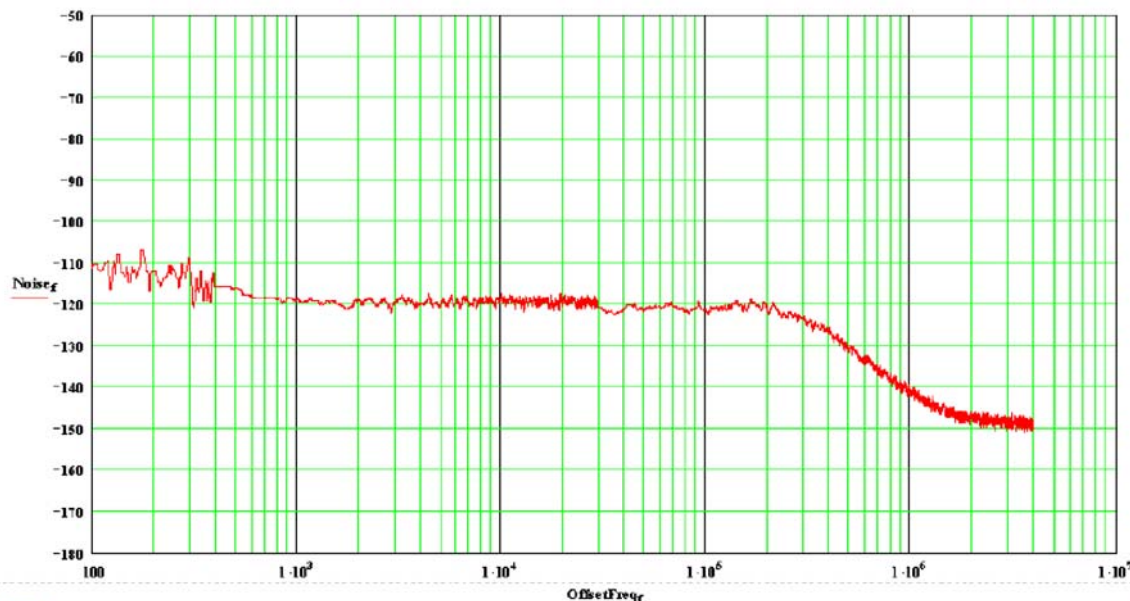
APPROVALS		DATE	TITLE		
DRAWN	<i>K. MAYON</i>	3/30/15	PRODUCT FEATURE PIA-6D6G-SFF-EXREF 6.6GHz PLDRO		
CHECKED			SIZE	FSCM NO.	DWG NO.
ISSUED			A	05XQ0	PRELIMINARY
			SCALE	N:S	SHEET 1 OF 2

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Typical Phase Noise Data



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ISSUED			SCALE N:S		REV. -
				SHEET	2 OF 2