

INPUT**Frequency**

10 MHz

Level

+7 dBm ±6 dB into 50 ohms

OUTPUT**Frequency**

2.5 GHz

Level

+13 dBm ±2 dB into 50 ohms

STABILITY**Aging (free-running)**1 x 10⁻⁶ first year

after 30 days operating, typical

5 x 10⁻⁷ second year, typical3 x 10⁻⁷ per year thereafter, typical**Phase Noise L(f), typical, (free-running)**

10 Hz -74 dBc/Hz

100 Hz -105 dBc/Hz

1 kHz -131 dBc/Hz

10 kHz -152 dBc/Hz

100 kHz -154 dBc/Hz

1 MHz -154 dBc/Hz

10 MHz -154 dBc/Hz

Temperature Stability±5 x 10⁻⁷ free-running from 0 to +50°C

(Ref. +25°C)

Harmonics

-25 dBc

Sub-Harmonics

-60 dBc

PLL Divider Products

-60 dBc

Spurious

-80 dBc, excluding power supply line related spurs

MECHANICAL**Dimensions**

5.4 x 4 x 1"

Connectors

RF Input/Output: SMA(f)

Power, Monitoring: Feed Thru Terminals

GND: Ground Turret

Packaging

Nickel-plated machined aluminum housing – G2P

Mounting

Threaded inserts on base, #2-56, 6 places

POWER REQUIREMENTS**Warm-Up Power**

≤ 18 Watts for 5 minutes

Total Power

≤ 14 Watts at +25°C

Supply Voltage

+15 VDC ±5%

ADJUSTMENT**Loop BW**

Target Bandwidth: ≤ 10 Hz

Type 2 Loop

PHASE LOCK STATUS**Phase Lock Alarm**

TTL

Locked: +3.5 VDC to +5.2 VDC (Hi)

Out-of-Lock: +0.8 VDC max (Lo)

Phase Lock Voltage Monitor

Electrical tuning monitor pin supplied

CRYSTAL**Type**

100 MHz SC-cut (x25)

OTHER**Label**

Use conventional label with the following information:

501-29092 (Current Rev.)

2.5 GHz GMXO-PLD

+15 VDC

Serial # - Date Code

(Mark connectors with function)

Test Data

Output Level

Phase Noise (free-running)

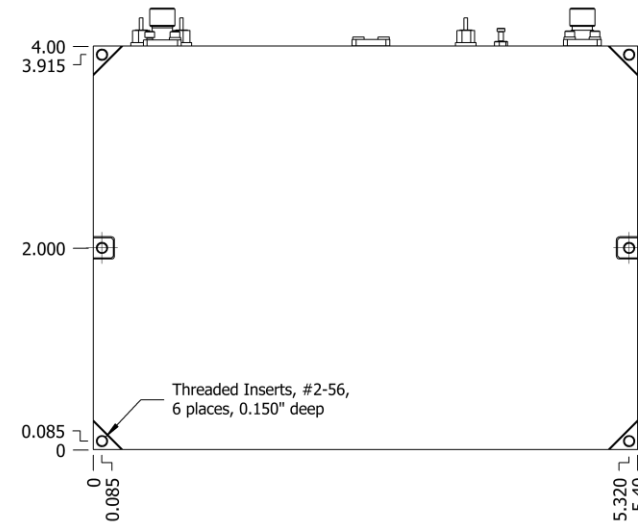
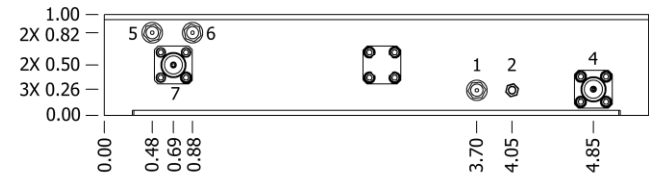
Temperature Stability (free-running)

Harmonics, Subs, Products, Spurious

Power – Warm-up and Total

REV	DATE	REVISION RECORD	DWN	AUTH
-	06-01-15	Initial Release	LR/PC	

G2P MXO Connections	
Connector	Function
1	Supply Voltage
2	Ground, Case
4	RF Output
5	Phase Lock Voltage
6	Phase Lock Alarm
7	External Reference Input

**Wenzel Associates, Inc.**

Austin, Texas

Title:

**2.5 GHz Golden Multiplied Crystal Oscillator
(GMXO-PLD)**

P/N:

501-29092

Rev:

-

Date:

06-01-15

Drawn:

Ref:

Tolerances:
(except as noted)
Dimensions are in inches

0.XX Dec:

±0.030"

0.XXX Dec:

±0.010"

FSCM:

62821

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