

INPUT**Frequency**

10 MHz

Level

+7 dBm ±6 dB into 50 ohms

OUTPUT**Frequency**

500 MHz

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**Output Phase Noise L(f)
(free-running)**

10 Hz -89 dBc/Hz

100 Hz -120 dBc/Hz

1 KHz -146 dBc/Hz

10 KHz -167 dBc/Hz

100 KHz -170 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**

4.45 x 4 x 1"

Connectors

RF Outputs: SMA(f)

Power, ET: Feed Thru Terminals

GND: Ground Turret

PackagingNickel-plated machined
aluminum housing – G1P**Mounting**

Threaded inserts on base,

#2-56, 6 places

POWER REQUIREMENTS**Warm-Up Power**

≤ 15 Watts for 5 minutes

Total Power

≤ 11.5 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 (x5)

LabelUse conventional label with the
following information:

501-34583 (Current Rev.)

500 MHz GMXO-PLD

+15 VDC

Serial # - Date Code

(Mark connectors with function)

Test Data

Output Level

Phase Noise (free-running)

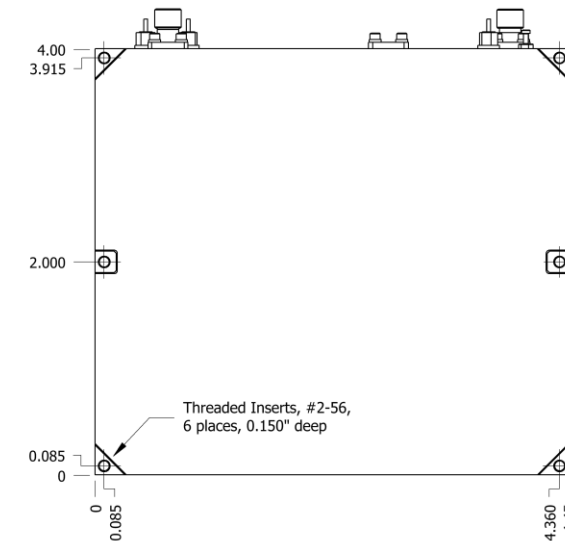
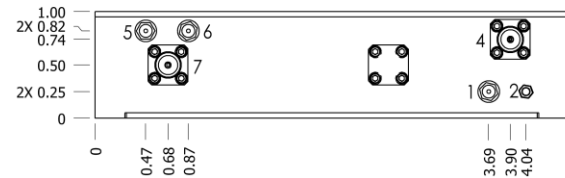
Temperature Stability (free-running)

Harmonics, Subs, Products, Spurious

Power – Warm-up and Total

REV	DATE	REVISION RECORD	DWN	AUTH
-	5-03-22	Initial Release	MJG	

G1P MXO Connections	
Connector	Function
1	Supply Voltage
2	Ground, Case
4	RF Output B
5	Phase Lock Voltage
6	Phase Lock Alarm
7	External Reference Input

**Wenzel Associates, Inc.**

Austin, Texas

Title:
**500 MHz Golden Multiplied Crystal Oscillator
(GMXO-PLD)**

P/N: 501-34583	Rev: A	Date: 05-03-22	Drawn:	Ref: 27216
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Tolerances: (except as noted) Dimensions are in inches	0.XX Dec: ±0.030"	0.XXX Dec: ±0.010"	FSCM: 62821	Page 1 of 1
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