

INPUT

Frequency

10 MHz

Level

+13 dBm ± 1 dB into 50 ohms

OUTPUT

Frequency

360 MHz

Level

+13 dBm ± 2 dB into 50 ohms

STABILITY

Aging (free-running)

1×10^{-6} first year

after 30 days operating, typical

5×10^{-7} second year, typical

3×10^{-7} per year thereafter, typical

Phase Noise L(f), typical (free-running)

10 Hz -90 dBc/Hz

100 Hz -120 dBc/Hz

1 KHz -141 dBc/Hz

10 KHz -165 dBc/Hz

100 KHz -165 dBc/Hz

1 MHz -165 dBc/Hz

Temperature Stability

$\pm 5 \times 10^{-7}$ free-running from 0 to +50°C
(Ref. +25°C)

Harmonics

-25 dBc

Sub-Harmonics

-60 dBc

PLL Reference Products

-60 dBc

Spurious

-80 dBc, excluding power
supply line related spurs

MECHANICAL

Dimensions

6.36 x 4 x 1"

Connectors

RF Outputs: SMA(f)

Power, ET: Feed Thru Terminals

GND: Ground Turret

Packaging

Nickel-plated machined
aluminum housing – G2PM

Mounting

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

POWER REQUIREMENTS

Warm-Up Power

≤ 17.5 Watts for 5 minutes

Total Power

≤ 13.5 Watts at +25°C

Supply Voltage

+15 VDC $\pm 5\%$

ADJUSTMENT

Target Bandwidth: ~ 300 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

90 MHz SC-cut (x4)

OTHER

Label

Use conventional label with the
following information:

501-31520 (Current Rev.)

360 MHz GMXO-PLM

+15 VDC

Serial # - Date Code

(Mark connectors with function)

Test Data

Output Level

Phase Noise (free-running)

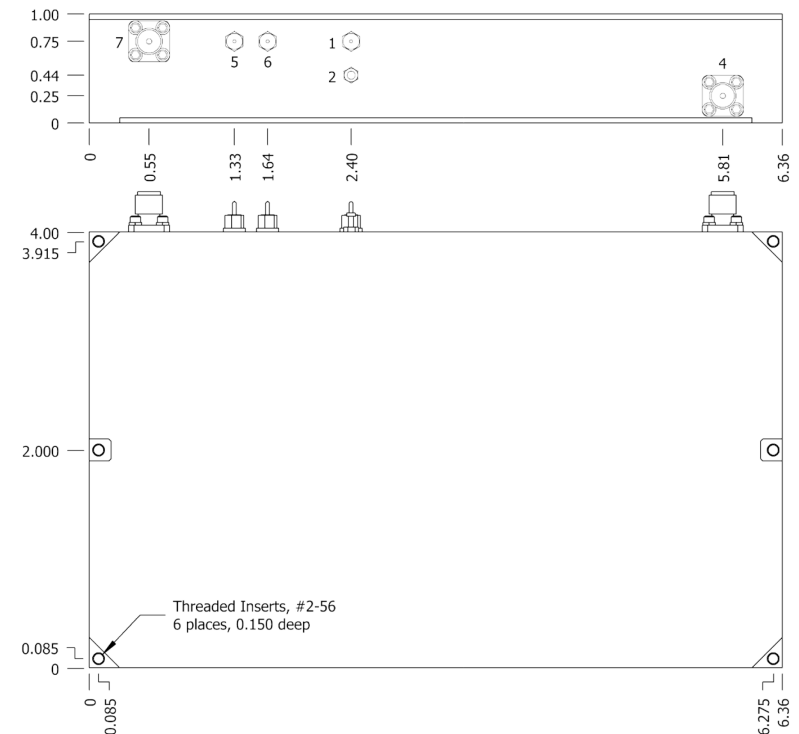
Temperature Stability (free-running)

Harmonics, Subs, Products, Spurious

Power – Warm-up and Total

REV	DATE	REVISION RECORD	DWN	AUTH
-	03-13-18	Initial Release	CB	

G2PM 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:

**360 MHz Golden
Multiplied Crystal Oscillator (GMXO-PLM)**

P/N: 501-31520	Rev: -	Date: 03-13-18	Drawn:	Ref:
Tolerances: (except as noted) Dimensions are in inches		0.XX Dec: ± 0.030"	0.XXX Dec: ± 0.010"	FSCM: 62821