

INPUT**Frequency**

10 MHz

Level+7 dBm ± 6 dB into 50 ohms**OUTPUTS**

Output	Frequency	Level (into 50 Ω)
A	100 MHz	+16 ± 2 dBm
B	1 GHz	+13 ± 2 dBm

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), dBc/Hz, typical, (free-running)**

	100 MHz	1 GHz
10 Hz	-105	-83
100 Hz	-136	-115
1 kHz	-162	-140
10 kHz	-183	-160
100 kHz	-188	-162
1 MHz	-188	-162

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 Divider Products

-60 dBc

Spurious

-80 dBc, excluding power

supply line related spurs

MECHANICAL**Dimensions**

5.4 x 4 x 1"

Connectors

RF Outputs: SMA(f)

Power, ET: Feed Thru Terminals

GND: Ground Turret

PackagingNickel-plated machined
aluminum housing – G2P-03**Mounting**Threaded inserts on base,
#2-56, 6 places**POWER REQUIREMENTS****Warm-Up Power** ≤ 17 Watts for 5 minutes**Total Power** ≤ 13 Watts at +25°C**Supply Voltage**+15 VDC $\pm 5\%$ **ADJUSTMENT**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 (x10)

OTHER**Label**Use conventional label with the
following information:

501-29407 (Current Rev.)

100M/1G GMXO-PLD

+15 VDC

Serial # - Date Code

(Mark connectors with function)

Test Data

Output Level

Phase Noise (free-running)

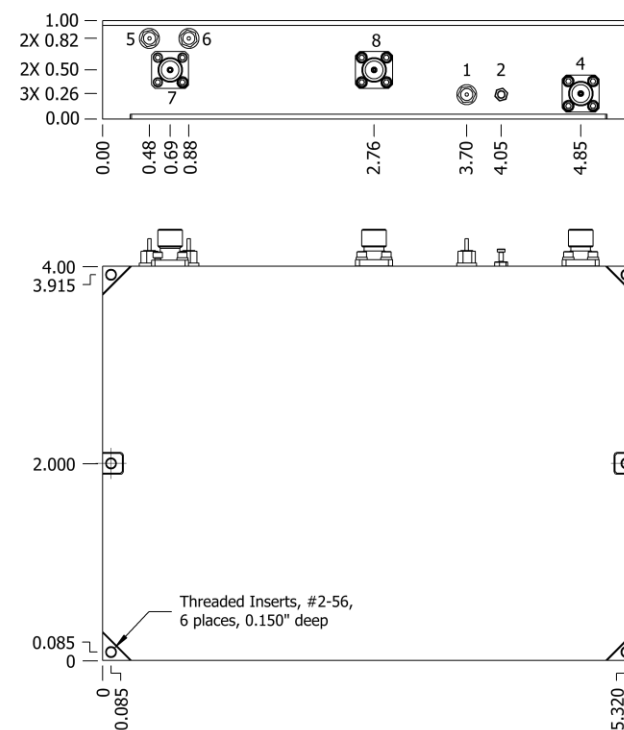
Temperature Stability (free-running)

Harmonics, Subs, Products, Spurious

Power – Warm-up and Total

REV	DATE	REVISION RECORD	DWN	AUTH
-	09-18-15	Initial Release	PAC	

G2P-03 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
8	RF Output A

**Wenzel Associates, Inc.**

Austin, Texas

Title:

**100 MHz & 1 GHz Golden
Multiplied Crystal Oscillator (GMXO-PLD)**

P/N: 501-29407	Rev: -	Date: 09-18-15	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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