

INPUT

Frequency

10 MHz

Level

+7 dBm \pm 6 dB into 50 ohms

OUTPUT

RF Output	Frequency	Output Level (into 50 ohms)
A	2.4 GHz	+10 dBm \pm 2 dB
B	7.2 GHz	+13 dBm \pm 2 dB

STABILITY

Aging (free-running)

1 x 10⁻⁶ first year

after 30 days operating, typical

5 x 10⁻⁷ second year, typical

3 x 10⁻⁷ per year thereafter, typical

Output Phase Noise L(f) (Free-Running, typical)

	2.4 GHz (dBc/Hz)	7.2 GHz (dBc/Hz)
10 Hz	-75	-65
100 Hz	-106	-96
1 kHz	-131	-121
10 kHz	-152	-142
100 kHz	-154	-144

Temperature Stability

\pm 5 x 10⁻⁷ free-running from 0 to +50°C
(Ref. +25°C)

Harmonics

\leq -25 dBc

Sub-Harmonics

\leq -60 dBc

PLL Divider Products

\leq -60 dBc

Spurious

\leq -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 – G3P-35

Mounting

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

POWER REQUIREMENTS

Warm-Up Power

\leq 24 Watts for 5 minutes

Total Power

\leq 20 Watts at +25°C

Supply Voltage

+15 VDC \pm 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 (x24,x72)

Label

Use conventional label with the
following information:

501-30459 (Current Rev.)

2.4G/7.2G GMXO-PLD

+15 VDC

Serial # - Date Code

(Mark connectors with function)

Test Data

Output Level

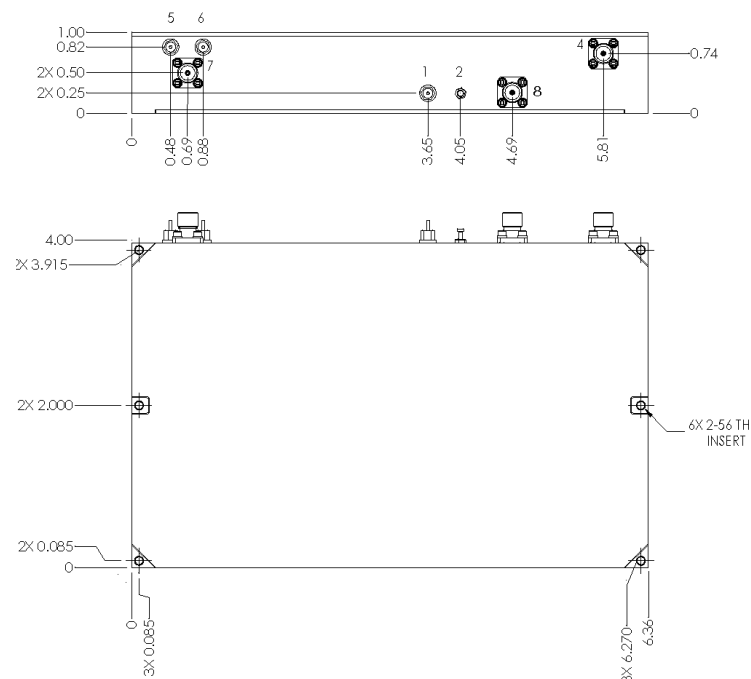
Temperature Stability (free-running)

Harmonics, Subs, Products, Spurious

Power – Warm-up and Total

REV	DATE	REVISION RECORD	DWN	AUTH
-	11-08-16	Initial Release	CB	
A	04-10-19	Relaxed 100 kHz offset values by 2 dBc.	CB	

G3P-35 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:

**2.4 GHz and 7.2 GHz Golden Multiplied Crystal
Oscillator (GMXO-PLD)**

P/N:

501-30459

Rev:

A

Date:

04-10-19

Drawn:

Ref:

Tolerances:
(except as noted)
Dimensions are in inches

0.XX Dec:

\pm 0.030"

0.XXX Dec:

\pm 0.010"

FSCM:

62821

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