

INPUT

Frequency

10 MHz

Level

+7 dBm ± 6 dB into 50 ohms

OUTPUT

Frequency

6 GHz

Level

+16 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

Output Phase Noise L(f)

(Free-Running, typical)

100 Hz -96 dBc/Hz

1 KHz -122 dBc/Hz

10 KHz -140 dBc/Hz

100 KHz -143 dBc/Hz

1 MHz -143 dBc/Hz

Temperature Stability

$\pm 5 \times 10^{-7}$ free-running from -20 to +70°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

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

Mounting

Threaded inserts on base,

#2-56, 6 places

POWER REQUIREMENTS

Warm-Up Power

≤ 21.5 Watts for 5 minutes

Total Power

≤ 18 Watts at +25°C

Supply Voltage

+15 VDC $\pm 5\%$

ADJUSTMENT

Loop BW

Target Bandwidth: < 60 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 (x60)

Label

Use conventional label with the

following information:

501-30449 (Current Rev.)

6 GHz GMXO-PLD

+15 VDC

Serial # - Date Code

(Mark connectors with function)

Test Data

Output Level

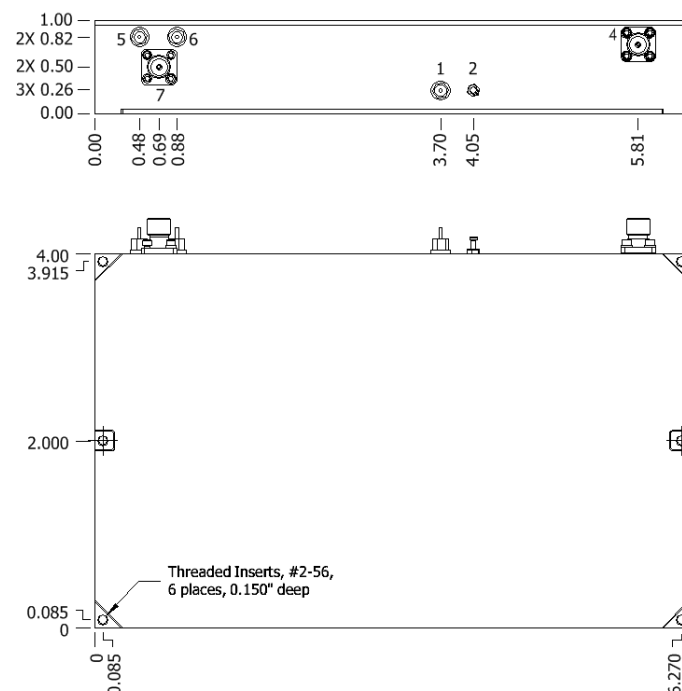
Temperature Stability (free-running)

Harmonics, Subs, Products, Spurious

Power – Warm-up and Total

REV	DATE	REVISION RECORD	DWN	AUTH
-	11-01-16	Initial Release	CB	

G3P 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:

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

P/N:

501-30449

Rev:

-

Date:

11-01-16

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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