INPUT
Frequency
10 MHz
Level
+13 dBm ±1 dB into 50 ohms
OUTPUT
Frequency
4 GHz
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, typical
3 x 10 ⁻⁷ per year thereafter, typical
Phase Noise L(f), typical, (free-running)
10 Hz -72 dBc/Hz
10 Hz -72 dBc/Hz 100 Hz -102 dBc/Hz
1 KHz -129 dBc/Hz
10 KHz -149 dBc/Hz
100 KHz -150 dBc/Hz 1 MHz -150 dBc/Hz
1 MHz -150 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 Reference Products
-60 dBc
Spurious
-80 dBc, excluding power
supply line related spurs
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
Voltage monitor pin supplied
MECHANICAL Dimensions
Dimensions 7.31 x 4 x 1"
1.31 X 4 X 1

Connectors

RF Input/Output: SMA(f)

Power, Monitoring: Feed Thru Terminals

GND: Ground Turret

Packaging

Nickel-plated machined aluminum housing – G3PM

Mounting

Threaded inserts on base,

6 places, #2-56

POWER REQUIREMENTS

Warm-Up Power

≤ 23 Watts for 5 minutes

Total Power

≤ 19 Watts at +25°C

Supply Voltage

+15 VDC ±5%

ADJUSTMENT

Loop BW

Target Bandwidth: ~200 Hz

Type 2 Loop

CRYSTAL

Type

100 MHz SC-cut (x40)

OTHER

Label

Use conventional label with the

following information:

501-31432 (Current Rev.)

4 GHz GMXO-PLM

+15 VDC

Serial # - Date Code

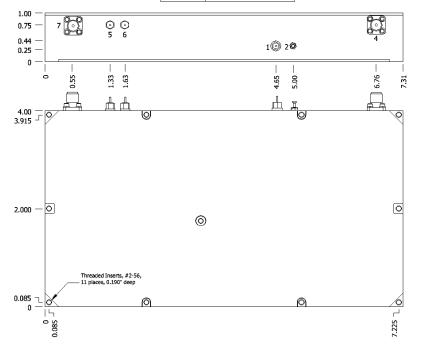
(Mark connectors with function)

Test Data

- Output Level
- Phase Noise free-running
- Harmonics, Subs, Products, Spurious
- Power Warm-up and Total

REV	DATE	REVISION RECORD	DWN	AUTH
-	01-29-18	Initial Release	CB	
Α	06-21-18	Changed L(10k, 100k,1M)	CB	

G3PM MXO Connections		
Connector	Function	
1 2 4 5 6 7	Supply Voltage Ground, Case RF Output Phase Lock Voltage Phase Lock Alarm External Reference Input	



Wenzel Associates, Inc. Austin. Texas 4 GHz Golden Multiplied Crystal Oscillator (GMXO-PLM) P/N: Ref: Rev: Date: Drawn: 501-31432 06-21-18 Α Tolerances: 0.XXX Dec: FSCM: 0.XX Dec: (except as noted) Page 1 of 1 62821 ± 0.030 " ±0.010"