INPUT	
Frequency	
10 MHz	
Level	
+13 dBm ±1 dB into 50 ohms	
OUTPUT	
Frequency	
5 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 -69 dBc/Hz	
100 Hz -100 dBc/Hz	
1 KHz -126 dBc/Hz	
10 KHz -147 dBc/Hz	
100 KHz -148 dBc/Hz	
1 MHz -148 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	
6.36 x 4 x 1"	

Connectors

RF Input/Output: SMA(f)

Power, Monitoring: Feed Thru Terminals

GND: Ground Turret

Packaging

Nickel-plated machined aluminum housing – G2PM

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 (x50)

OTHER

Label

Use conventional label with the

following information:

501-31778 (Current Rev.)

5 GHz GMXO-PLM

+15 VDC

Serial # - Date Code

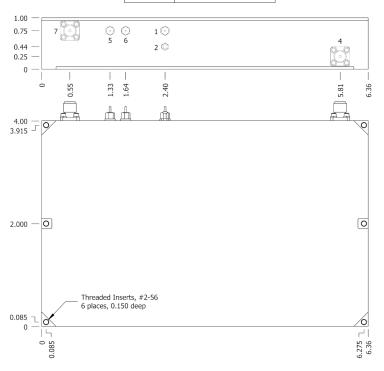
(Mark connectors with function)

Test Data

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

REV	DATE	REVISION RECORD	DWN	AUTH
•	06-21-18	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: **5 GHz Golden Multiplied Crystal Oscillator** (GMXO-PLM) P/N: Ref: Rev: Date: Drawn: 501-31778 06-21-18 Tolerances: FSCM: 0.XX Dec: 0.XXX Dec: (except as noted) Page 1 of 1 62821 ± 0.030 " ±0.010"