INPUT Frequency 10 MHz Level +13 dBm ±1 dB into 50 ohms **OUTPUTS Output Level** RF Output Frequency (into 50 ohms) 100 MHz +16 dBm +2 dB B 6 GHz +16 dBm ±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 Phase Noise L(f), typical, (free-running) 100 MHz 6 GHz 100 Hz -136 dBc/Hz -99 dBc/Hz 1 kHz -162 dBc/Hz -126 dBc/Hz 10 kHz -183 dBc/Hz -143 dBc/Hz -188 dBc/Hz 100 kHz -144 dBc/Hz **Temperature Stability** $\pm 5 \times 10^{-7}$ free-running from 0 to $\pm 50^{\circ}$ 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** TTI 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** 7.31 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-05

Mounting

Threaded inserts on base,

6 places, #2-56

POWER REQUIREMENTS

Warm-Up Power

≤ 24 Watts for 5 minutes

Total Power

≤ 20 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 (x60)

OTHER

Label

Use conventional label with the following information:

501-28171 (Current Rev.)

100M/6G GMXO-PLM

+15 VDC

Serial # - Date Code

(Mark connectors with function)

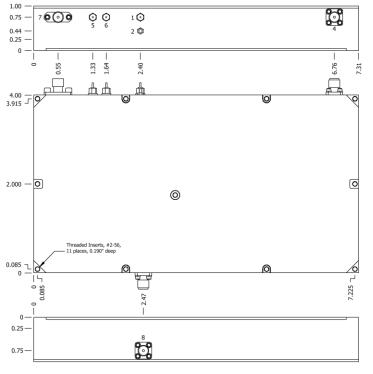
Test Data

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

REV	DATE	REVISION RECORD	DWN	AUTH
-	06-12-14	Initial Release	PAC	

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G3PM-05 MXO Connections				
Connector	Function			
1 2	Supply Voltage Ground, Case			
4	RF Output B			
5	Phase Lock Voltage			
6	Phase Lock Alarm			
7	External Reference Input			
8	RF Output A			



PRELIMINARY DRAWING

Wenzel Associates, Inc. Austin, Texas 100 MHz & 6 GHz Multiplied Crystal Oscillator (GMXO-PLM) P/N· Date: Ref: Rev: Drawn. 501-28171 06-12-14 Tolerances: 0.XXX Dec: 0.XX Dec: FSCM: (except as noted) Page 1 of 2 62821 ± 0.030 " ± 0.010 " Dimensions are in inches