	INPUT Frequen 10 MH Level +13 d	•	50 ohms						
	OUTPUT	•							
	Output	Frequency	Level (into 50Ω)						
	Α	100 MHz	+16 ±2 dBm						
	В	5 GHz	+16 ±2 dBm						
	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)

TOU WITZ	o GHZ
-105	-69
-136	-100
-162	-125
-183	-145
-188	-147
-188	-148
	-105 -136 -162 -183 -188

Temperature Stability

 $\pm 5 \times 10^{-7}$ free-running from 0 to $+50^{\circ}$ C (Ref. $+25^{\circ}$ 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

IIL

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-03

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:

501-31779 (Current Rev.) 100M/5G GMXO-PLM

IOOIVI/3G GIVIXO

+15 VDC

Serial # - Date Code

(Mark connectors with function)

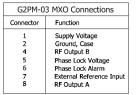
Test Data

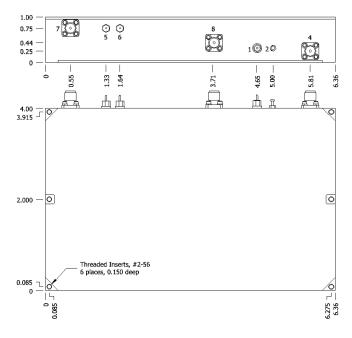
- Output Level
- Phase Noise free-running
- Harmonics, Subs, Products, Spurious

Title:

- Power - Warm-up and Total

REV	DATE	REVISION RECORD	DWN	AUTH
-	06-21-18	Initial Release	CB	





Wenzel Associates, Inc.

Austin, Texas

100 MHz & 5 GHz Golden
Multiplied Crystal Oscillator (GMXO-PLM)

P/N:	Rev:	Date):	Drawn:	Ref:
501-31779	-	0	6-21-18		
Tolerances: (except as noted) Dimensions are in inches	0.XX Dec: ±0.030"		0.XXX Dec: ±0.010"	FSCM: 62821	Page 1 of 1