INPUT
Frequency
10 MHz
Level
+13 dBm ±1 dB into 50 ohms
OUTPUT
Frequency
2 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 -77 dBc/Hz
100 Hz -107 dBc/Hz 1 kHz -133 dBc/Hz
10 kHz -154 dBc/Hz
100 kHz -157 dBc/Hz 1 MHz -157 dBc/Hz
1 MHz -157 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
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 – G2PM
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Threaded inserts on base, #2-56, 6 places

POWER REQUIREMENTS

Warm-Up Power

≤ 20.5 Watts for 5 minutes

Total Power

≤ 16.5 Watts at +25°C

Supply Voltage

+15 VDC ±5%

ADJUSTMENT

Target Bandwidth: ~ 300 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 (x20)

OTHER

Label

Use conventional label with the following information:

501-31475 (Current Rev.)

2G GMXO-PLM

+15 VDC

Serial # - Date Code

(Mark connectors with function)

Test Data

Output Level

Phase Noise (free-running)

Temperature Stability (free-running)

Power - Warm-up and Total

Harmonics, Subs, Products, Spurious

REV	DATE	REVISION RECORD	DWN	AUTH
-	02-21-18	Initial Release	СВ	

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			
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