INPUT			
Frequency			
10 MHz			
Level			
+7 dBm ±6 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			
2 × 40 ⁻⁷			
3 x 10 ⁻⁷ per year thereafter, typical			
Phase Noise L(f), typical, (free-running) 10 Hz -77 dBc/Hz			
10 Hz -77 dBc/Hz			
1 kHz -133 dBc/Hz			
10 kHz -154 dBc/Hz			
100 kHz -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 Divider Products			
-60 dBc			
Spurious			
-80 dBc, excluding power			
supply line related spurs			
MECHANICAL			
Dimensions			
5.4 x 4 x 1"			
Connectors DE Input/Output: SMA/f)			
RF Input/Output: SMA(f) Power, Monitoring: Feed Thru Terminals			
GND: Ground Turret			
Packaging			
Nickel-plated machined			
aluminum housing – G2P			
· · · · · · · · · · · · · · · · · · ·			

Threaded inserts on base, #2-56, 6 places

POWER REQUIREMENTS

Warm-Up Power

≤ 18.5 Watts for 5 minutes

Total Power

≤ 14.5 Watts at +25°C

Supply Voltage

+15 VDC ±5%

ADJUSTMENT

Loop BW

Target Bandwidth: ≤ 10 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:

501-30943 (Current Rev.)

2 GHz GMXO-PLD

+15 VDC

Serial # - Date Code

(Mark connectors with function)

Test Data

Output Level

Phase Noise (free-running)

Temperature Stability (free-running)

Harmonics, Subs, Products, Spurious

Power - Warm-up and Total

REV	DATE	REVISION RECORD	DWN	AUTH
-	05-31-17	Initial Release	CB	

G2P 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	





