INPUT
Frequency
10 MHz
Level
+7 dBm ±6 dB into 50 ohms
OUTPUT
Frequency
11 GHz
Level
+13 dBm ±2 dB into 50 ohms
STABILITY
Aging (free-running)
1 x 10 ⁻⁶ first year
1 x 10 first year
after 30 days operating, typical
after 30 days operating, typical 5 x 10 ⁻⁷ second year, typical 3 x 10 ⁻⁷ per year thereafter, typical
3 x 10 ⁻⁷ per year thereafter, typical
Output Phase Noise L(f)
(Free-Running)
10 Hz -60 dBc/Hz
10 Hz -60 dBc/Hz 100 Hz -90 dBc/Hz 1 KHz -115 dBc/Hz 10 KHz -135 dBc/Hz
1 KHz -115 dBc/Hz
10 KHz -135 dBc/Hz
10 KHz -135 dBc/Hz 100 KHz -139 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
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 - G3P

Mounting

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

POWER REQUIREMENTS

Warm-Up Power

≤ 22 Watts for 5 minutes

Total Power

≤ 18 Watts at +25°C

Supply Voltage

+15 VDC ±5%

ADJUSTMENT

Loop BW

Target Bandwidth: < 50 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

110 MHz SC-cut (x100)

Label

Use conventional label with the following information:

501-29334 (Current Rev.)

11G 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
-	08-11-15	Initial Release	CB	

G3P MXO Connections		
Connector	Function	
1 2 4 5 6 7	Supply Voltage Ground, Case RF Output Phase Lock Voltage Phase Lock Alarm External Reference Input	

1.00

5@ @6



