INPUT
Frequency
10 MHz
Level
+7 dBm ±6 dB into 50 ohms
OUTPUT
Frequency
625 MHz
Level
+13 dBm ±2 dB into 50 ohms
STABILITY
Aging (free-running)
1 x 10 ⁻⁶ first year
after 30 days operating, typical
5 · 40 ⁻⁷
5×10^{-7} second year, typical
3 x 10 ⁻⁷ per year thereafter, typical
Output Phase Noise L(f)
(Free-Running)
10 Hz -85 dBc/Hz
100 Hz -115 dBc/Hz
1 KHz -143 dBc/Hz
10 KHz -161 dBc/Hz
100 KHz -166 dBc/Hz
1 MHz -166 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 Divider Products
≤ -60 dBc
Spurious
≤ -80 dBc, excluding power
supply line related spurs
MECHANICAL
Dimensions
4.45 x 4 x 1"
Connectors
RF Outputs: SMA(f)
Power, ET: Feed Thru Terminals
GND: Ground Turret
Packaging
Nickel-plated machined
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aluminum housing – G1P
Mounting
Threaded inserts on base,
#2-56, 6 places
POWER REQUIREMENTS
Warm-Up Power
≤ 16.5 Watts for 5 minutes
Total Power
≤ 12 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
125 MHz SC-cut (x5)
Label
Use conventional label with the
following information:
501 31260 (Current Pey)

Use conventional label with the following information: 501-31269 (Current Rev.) 625 MHz 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
-	10-25-17	Initial Release	PAC	

G1P MXO Connections			
Connector Function			
1 Supply Voltage 2 Ground, Case 4 RF Output B 5 Phase Lock Volta 6 Phase Lock Alarr 7 External Referen	n		





