INPUT
Frequency
10 MHz
Level
+7 dBm ±6 dB into 50 ohms
OUTPUT
Frequency
640 MHz
Level
+16 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
Output Phase Noise L(f)
(Free-Running)
10 Hz -85 dBc/Hz
100 Hz -116 dBc/Hz
1 KHz -144 dBc/Hz
10 KHz -167 dBc/Hz
100 KHz -168 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
aluminum housing – G1P

	REV	DATE	REVISION RECORD	DWN	AUTH
Mounting Threaded inserts on base, #2-56, 6 places	-	10-14-13	Initial Release	LR/PC	
	Α	02-06-14	Output Level, Phase Noise, Current	PAC	

POWER REQUIREMENTS

≤ 15 Watts for 5 minutes

Target Bandwidth: < 10 Hz

Phase Lock Voltage Monitor

128 MHz SC-cut (x5)

following information: 501-27252 (Current Rev.)

640 MHz GMXO-PLD

Serial # - Date Code

Locked: +3.5 VDC to +5.2 VDC (Hi) Out-of-Lock: +0.8 VDC max (Lo)

Electrical tuning monitor pin supplied

Use conventional label with the

(Mark connectors with function)

Temperature Stability (free-running) Harmonics, Subs, Products, Spurious

Phase Noise (free-running)

Power – Warm-up and Total

≤ 11.5 Watts at +25°C

Warm-Up Power

Supply Voltage +15 VDC ±5% ADJUSTMENT Loop BW

Type 2 Loop

TTL

CRYSTAL Type

+15 VDC

Output Level

Test Data

Label

PHASE LOCK STATUS
Phase Lock Alarm

Total Power

G1P MXO Connections				
Connector	Fundien			
1	Supply Voltage			
2	Ground, Case			
4	RF Output B			
5	Phase Lock Voltage			
6	Physic Lock Alarm			
7	Catemal Reference Input			





