INPUT	
Frequency	
10 MHz	
Level	
+7 dBm ±6	6 dB into 50 ohms
OUTPUT	
Frequency	
180 MHz	
Level	
	±2 dB into 50 ohms
STABILITY	
Aging	
1 x 10 ⁻⁶ firs	
after 30 da	ays operating, typical
5 x 10 ⁻⁷ se	cond year, typical
3 x 10 ⁻⁷ ne	er year thereafter, typical
Output Phase	e Noise L(f)
(Free-Runnin	
	-93 dBc/Hz
	-123 dBc/Hz
1 KHz	-153 dBc/Hz
10 KHz	-173 dBc/Hz -176 dBc/Hz
100 KHz	-176 dBc/Hz
Temperature	Stability
±5 x 10 ⁻⁷ .	0° to +50°C (Ref +25°C
Harmonics	()
≤ -25 dBc	
Sub-Harmon	ics
≤ -60 dBc	
Spurious	
≤ -80 dBc,	excluding power
supply line	related spurs
MECHANICA	L
Dimensions	
4.45 x 4 x	1"
Connectors	
	d solder pins
Packaging	
	ted machined
	housing – G1P
Mounting	:
	inserts on base,
#2-56, 6 p	IdUeS

POWER REQUIREMENTS Warm-Up Power ≤ 14.5 Watts for 5 minutes Total Power ≤ 11.5 Watts at +25°C

Supply Voltage +15 VDC ±5% ADJUSTMENT Loop BW

Target Bandwidth: < 10 Hz Type 2 Loop

CRYSTAL Type

90 MHz SC-cut (x2)

Label

Use conventional label with the following information: 501-27768 (Current Rev.) 180 MHz GMXO-PLD +15 VDC Serial # - Date Code (Mark connectors with function)

Test Data

Output Level
Phase Noise
Temperature Stability
Harmonics, Subs, Spurious
Power – Warm-up and Total
Tuning – MT

REV	DATE	REVISION RECORD	DWN	AUTH
-	01-23-14	Initial Release	PAC	

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





