INPUT	
_	Mounting
Frequency 10 MHz	Threaded inserts on base,
Level	
+7 dBm ±6 dB into 50 ohms	#2-56, 6 places POWER REQUIREMENTS
OUTPUT	
	Warm-Up Power ≤ 18 Watts for 5 minutes
Frequency	Total Power
1.3 GHz	≤ 14 Watts at +25°C
Level	
+13 dBm ±2 dB into 50 ohms	Supply Voltage +15 VDC ±5%
STABILITY	ADJUSTMENT
Aging (free-running)	Loop BW
1 x 10 ⁻⁶ first year	Target Bandwidth: < 10 Hz
after 30 days operating, typical	
5 x 10 ⁻⁷ second year, typical	Type 2 Loop PHASE LOCK STATUS
3 x 10 ⁻⁷ per year thereafter, typical	Phase Lock Alarm
Output Phase Noise L(f)	TTL
(Free-Running)	Locked: +3.5 VDC to +5.2 VDC (Hi)
10 Hz -74 dBc/Hz	Out-of-Lock: +0.8 VDC max (Lo)
100 Hz -106 dBc/Hz	Phase Lock Voltage Monitor
1 KHz -131 dBc/Hz	Electrical tuning monitor pin supplied
10 KHz -152 dBc/Hz	CRYSTAL
100 KHz -155 dBc/Hz	Type
Temperature Stability	81.25 MHz SC-cut (x16)
±5 x 10 ⁻⁷ free-running from 0 to +50°C	ENVIRONMENTAL
(Ref. +25°C)	Operating Temperature
Harmonics	0 to +50°C
≤ -25 dBc	Storage Temperature
Sub-Harmonics	-40 to +85°C
≤ -60 dBc	OTHER
PLL Divider Products	Label
≤ -60 dBc	Use conventional label with the
Spurious	following information:
≤ -80 dBc, excluding power	501-29405 (Current Rev.)
supply line related spurs	1.3G GMXO-PLD
MECHANICAL	+15 VDC
Dimensions	Serial # - Date Code
6.36 x 4 x 1"	(Mark connectors with function)
Connectors	Test Data
RF Outputs: SMA(f)	Output Level
Power, ET: Feed Thru Terminals	Phase Noise (free-running)
GND: Ground Turret	Temperature Stability (free-running)
Packaging	Harmonics, Subs, Products, Spurious
Nickel-plated machined	Power – Warm-up and Total
aluminum housing – G3P	·

REV	DATE	REVISION RECORD	DWN	AUTH
-	09-1715	Initial Release	PAC	

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

2X 0.82



