INPUT							
	Frequency						
•	10 MHz						
Level							
+7 dB	m ±6 dB into 50	) ohms					
OUTPUT	S						
Output	Frequency	Level (into 50Ω)					
Α	125 MHz	+13 ±2 dBm					
_	500 1411	. 40 . 0 . 15					
В	500 MHz	+13 ±2 dBm					
0	STABILITY						
	Aging						
1 x 10	1 x 10 <sup>-6</sup> first year						
	after 30 days operating, typical						
5 x 10	5 x 10 <sup>-7</sup> second year, typical						
3 x 10	<sup>-7</sup> per year there	eafter, typical					
		dz, typical, (free-running)					
	125 MHz						
	_						
10 Hz	-98	-85					
100 Hz	-130	-117					
1 kHz	-159	-145					
10 kHz	-177	-163 -167					
100 kHz 1 MHz	_	-167					
I IVITZ	-182	-167					
Tempera	ture Stability						
	±5 x 10 <sup>-7</sup> free-running from 0 to +50°C						
	(Ref. +25°C)						
Harmonics							
	-25 dBc						
Sub-Harmonics							
-60 dE	-60 dBc						
PLL Divi	PLL Divider Products						
-60 dE	-60 dBc						
	Spurious						
-80 dE	-80 dBc, excluding power						
	supply line related spurs						
	Phase Lock Alarm						
TTL	TTL Locked: +3.5 VDC to +5.2 VDC (Hi)						
	-Lock: +0.8 VD						
	ock Voltage Mo						
Electr	Electrical tuning voltage monitor pin supplied						

MECHANICAL	
Dimensions	
5.40 x 4 x 1"	

#### **Connectors**

RF Outputs: SMA(f)

Power, ET: Feed Thru Terminals

**GND: Ground Turret** 

### **Packaging**

Nickel-plated machined aluminum housing – G2P-13

#### Mounting

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

### **POWER REQUIREMENTS**

Warm-Up Power

≤ 14.5 Watts for 5 minutes

## **Total Power**

≤ 10.5 Watts at +25°C

# **Supply Voltage**

+15 VDC ±5%

#### **ADJUSTMENT**

Target Bandwidth: ≤ 10 Hz Type 2 Loop

### **CRYSTAL**

# Type

125 MHz SC-cut (x4)

# OTHER

#### Label

Use conventional label with the following information: 501-29387 (Current Rev.) 125/500M 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
-	09-10-15	Initial Release	СВ	

G2P-13 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		
8	RF Output A		



