INPUT						
Frequen	су					
10 MF	•					
Level						
_	m ±6 dB into 50	ohms				
OUTPUT		L L (" t E00)				
-	Frequency	•				
Α	500 MHz	+13 ±2 dBm				
В	1 GHz	+13 ±2 dBm				
STABILI	TY					
Aging						
1 x 10	) <sup>-6</sup> first year					
after 3	30 days operatin					
5 x 10	5 x 10 <sup>-7</sup> second year, typical					
3 x 10	o <sup>-7</sup> per year there	eafter, typical				
Phase N	oise L(f), dBc/ŀ	lz, typical, (free-runnin	ıg)			
	500 MHz	1 GHz				
10 Hz	-89	-83				
100 Hz	-121	-115				
1 kHz	-147	-140				
10 kHz	-167	-160				
100 kHz		-162				
1 MHz	-170	-162				
10 MHz	-170	-162				
Tempera	ture Stability					
		from 0 to +50°C				
(Ref. +25°C)						
Harmoni						
-25 dl						
Sub-Har						
-60 dl						
-60 di	der Products					
Spurious						
-80 dBc, excluding power						
supply line related spurs						
	ock Alarm					
TTL						
	Locked: +3.5 VDC to +5.2 VDC (Hi)					
	f-Lock: +0.8 VD					
	ock Voltage Mo					
Electr	icai tuning volta	ge 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 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

100 MHz SC-cut (x5, x2)

# OTHER

#### Label

Use conventional label with the following information: 501-28258 (Current Rev.) 500M/1G 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
-	07-16-14	Initial Release	LR/PAC	

G2P-13 MXO Connections		
Connector	Function	
1 2 4 5 6 7 8	Supply Voltage Ground, Case RF Output B Phase Lock Voltage Phase Lock Alarm External Reference Input RF Output A	
	- Compact	



