INPUT
Frequency
10 MHz
Level
+13 dBm ±1 dB into 50 ohms
OUTPUT
Frequency
500 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
Phase Noise L(f), typical (free-running)
10 Hz -89 dBc/Hz
100 Hz -120 dBc/Hz
1 KHz -146 dBc/Hz
10 KHz -167 dBc/Hz
100 KHz -170 dBc/Hz
Temperature Stability
±5 x 10 ⁻⁷ free-running from 0 to +50°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
5.4 x 4 x 1"
Connectors
RF Outputs: SMA(f)
Power, ET: Feed Thru Terminals GND: Ground Turret
Packaging
Nickel-plated machined
aluminum housing – G1PM
Mounting
Threaded inserts on base,
#0.50.0 data

#2-56, 6 places

POWER REQUIREMENTS

≤ 13 Watts at +25°C

≤ 17 Watts for 5 minutes

Target Bandwidth: ~ 300 Hz

Phase Lock Voltage Monitor

100 MHz SC-cut (x5)

following information: 501-28194 (Current Rev.) 500M GMXO-PLM

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

Warm-Up Power

Supply Voltage +15 VDC ±5% ADJUSTMENT

Type 2 Loop
PHASE LOCK STATUS
Phase Lock Alarm

TTL

CRYSTAL Type

OTHER

+15 VDC

Output Level

Test Data

Label

Total Power

REV	DATE	REVISION RECORD	DWN	AUTH
-	06-23-14	Initial Release	PAC	

G1PM MXO Connections			
Connector	Function		
1	Supply Voltage		
2	Ground, Case		
4	RF Output		
5	Phase Lock Voltage		
6	Phase Lock Alarm		
7	External Reference Input		
7	External Reference Inpu		



