INPUT
Frequency
10 MHz
Level
+13 dBm ±1 dB into 50 ohms
OUTPUT
Frequency
320 MHz
Level
+13 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)
100 Hz -120 dBc/Hz
1 KHz -147 dBc/Hz
10 KHz -166 dBc/Hz
100 KHz -169 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 Reference Products
-60 dBc
Spurious
-80 dBc, excluding power
supply line related spurs
MECHANICAL
Dimensions
6.36 x 4 x 1"
Connectors
RF Outputs: SMA(f)
Power, ET: Feed Thru Terminals
GND: Ground Turret
Packaging
Nickel-plated machined
aluminum housing – G2PM
Mounting
Threaded inserts on base,
#2-56, 6 places

POWER REQUIREMENTS
Warm-Up Power
≤ 13.5 Watts for 5 minutes
Total Power
≤ 10 Watts at +25°C
Supply Voltage
+15 VDC ±5%
ADJUSTMENT
Target Bandwidth: ~ 300 Hz
Type 2 Loop
PHASE LOCK STATUS
Phase Lock Alarm
· · -
Locked: +3.5 VDC to +5.2 VDC (Hi) Out-of-Lock: +0.8 VDC max (Lo)
Phase Lock Voltage Monitor
Electrical tuning monitor pin supplied
CRYSTAL
Туре
80 MHz SC-cut (x4)
OTHER
Label
Use conventional label with the
following information:
501-28719 (Current Rev.)
320M GMXO-PLM
+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
-	01-21-15	Initial Release	PAC	

G2PM 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	



