INPUT
Frequency
10 MHz
Level
+13 dBm ±1 dB into 50 ohms
OUTPUT
Frequency
6 GHz
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 I (f) typical (free-running)
100 Hz -99 dBc/Hz
1 NHZ - 120 UDC/HZ
10 KHz -143 dBc/Hz
100 KHz -144 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
Phase Lock Alarm
TTL
Locked: +3.5 VDC to +5.2 VDC (Hi)
Out-of-Lock: +0.8 VDC max (Lo) Phase Lock Voltage Monitor
Voltage monitor pin supplied
MECHANICAL
Dimensions
7.31 x 4 x 1"
TIVIA IA I

Connectors

RF Input/Output: SMA(f)

Power, Monitoring: Feed Thru Terminals

GND: Ground Turret

Packaging

Nickel-plated machined aluminum housing – G3PM

Mounting

Threaded inserts on base,

6 places, #2-56

POWER REQUIREMENTS

Warm-Up Power

≤ 23 Watts for 5 minutes

Total Power

≤ 19 Watts at +25°C

Supply Voltage

+15 VDC ±5%

ADJUSTMENT

Loop BW

Target Bandwidth: ~200 Hz

Type 2 Loop

CRYSTAL

Type

100 MHz SC-cut (x60)

OTHER

Label

Use conventional label with the

following information:

501-28170 (Current Rev.)

6 GHz GMXO-PLM

+15 VDC

Serial # - Date Code

(Mark connectors with function)

Test Data

- Output Level
- Phase Noise free-running
- Harmonics, Subs, Products, Spurious
- Power Warm-up and Total

REV	DATE	REVISION RECORD	DWN	AUTH
-	06-12-14	Initial Release	PAC	

G3PM 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			



