INPUT
Frequency
10 MHz
Level
+13 dBm ±1 dB into 50 ohms
OUTPUT
Frequency
3 GHz
Level
+13 dBm $\pm 2$ dB into 50 ohms
STABILITY
Aging (free-running)
1 x 10 <sup>-6</sup> first year
after 30 days operating, typical
5 x 10 <sup>-7</sup> second year, typical
3 x 10 <sup>-7</sup> per year thereafter, typical
Phase Noise L(f), typical (free-running)
100 Hz -107 dBc/Hz
1 KHz -131 dBc/Hz
10 KHz -152 dBc/Hz
100 KHz -153 dBc/Hz
Temperature Stability
±5 x 10 <sup>-7</sup> 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

<b>POWER REQUIREMENTS</b>
Warm-Up Power

≤ 22 Watts for 5 minutes

## **Total Power**

≤ 18 Watts at +25°C

# **Supply Voltage**

+15 VDC ±5%

### **ADJUSTMENT**

Target Bandwidth: ~ 300 Hz

Type 2 Loop

## **PHASE LOCK STATUS**

### **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**

Electrical tuning monitor pin supplied

### **CRYSTAL**

## Type

100 MHz SC-cut (x30)

## OTHER

#### Label

Use conventional label with the following information: 501-29189 (Current Rev.) 3 GHz 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
-	07-01-15	Initial Release	СВ	
Α	07-07-15	Improved Phase Noise	CB	

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	



