INPUT						
Frequenc						
10 MH <b>Level</b>	Z					
+13 dE	3m ±1 dB into	50 ohms				
OUTPUTS		L ( ( t 500)				
-	Frequency	Level (into 50Ω)				
Α	100 MHz	+16 ±2 dBm				
В	2 GHz	+13 ±2 dBm				
STABILIT						
	ee-running) <sup>6</sup> first year					
	0 days operati	ng, typical				
	5 x 10 <sup>-7</sup> second year, typical					
	<sup>7</sup> per year the					
Phase No	oise L(f), typic					
(free-runr	•	2.011-				
40 11-	100 MHz	2 GHz				
10 Hz	-105	-76				
100 Hz	-136 462	-107				
1 kHz	-162 482	-133				
10 kHz 100 kHz	-183	-154 157				
	-188 ture Stability	-157				
+5 x 10	0 <sup>-7</sup> free-runnin	g from 0 to +50°C				
(Ref. +						
	Harmonics					
-25 dBc						
Sub-Harmonics -60 dBc						
PLL Divider 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						

Packagin
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Nickel-plated machined aluminum housing – G2PM-03

### Mounting

Threaded inserts on base, #2-56, 6 places

## **POWER REQUIREMENTS**

### Warm-Up Power

≤ 20.5 Watts for 5 minutes

### **Total Power**

≤ 16.5 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 (x20)

### **OTHER**

#### Label

Use conventional label with the following information: 501-30246 (Current Rev.) 100M/2G 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
-	08-09-16	Initial Release	СВ	

G2PM-03 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	



