OUTPUTS						
Output	Frequency	Level (into 50Ω)				
Α	10 MHz	+13 ±2 dBm				
В	2 GHz	+13 ±2 dBm				
STABILI	TY					
Aging _						
1 x 10 ⁻⁷ first year						
after 30 days operating, typical						
	5 x 10 ⁻⁸ second year, typical					
3 x 10	3 x 10 ⁻⁸ per year thereafter, typical					
	oise L(f), dBc	/Hz, typical				
	10 MHz	2 GHz				
10 Hz	-140	-95				
100 Hz	-160 -165	-110				
300 Hz		-115				
1 kHz	-172	-128				
10 kHz 100 kHz	-174 -174	-145 -147				
100 KHZ 1 MHz	-174 -174	-147 -165				
10 MHz		-165				
Temperature Stability						
+1 x 1	0 ⁻⁷ -20 to +60	0°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

Connectors

6.51 x 4 x 1"

RF Outputs: SMA(f)

GND: Ground Turret

Power, Monitoring: Feed Thru Terminals

Packaging

Nickel-plated machined aluminum housing – J2PMX

Mounting

Threaded inserts on base, #2-56, 11 places

POWER REQUIREMENTS

Warm-Up Power

≤ 23 Watts for 5 minutes

Total Power

≤ 16 Watts at +25 °C

Supply Voltage

+15 VDC ±5%

ADJUSTMENT

Mechanical Tuning (Internal 10 MHz)

±1 x 10⁻⁶

Loop BW (Internal 100 MHz PLL)

Target Bandwidth: ~250 Hz

Type 2 Loop

CRYSTAL

Type

100 MHz SC-cut (x20)

OTHER

Label

Use conventional label with the following information: 501-29218 (Current Rev.) 10M/2G GQMXO-PLMX +15 VDC

Serial # - Date Code

(Mark connectors with function)

Test Data

- Output Level
- Phase Noise
- Temperature Stability
- Harmonics, Subs, Products, Spurs
- Power Warm-up and Total

REV	DATE	REVISION RECORD	DWN	AUTH
-	07-07-15	Initial Release	Liz	
Α	07-08-15	Add Golden-Q	Liz	

J2PMX MXO Connections				
Connector	Function			
1	Supply Voltage			
2	Ground, Case			
4	RF Output B			
5	Phase Lock Voltage			
6	Phase Lock Alarm			
8	RF Output A			



