INPUT				
Frequency				
10 MHz				
Level				
+13 dBm ±1 dB into 50 ohms				
OUTPUT				
Frequency				
1.92 GHz				
Level				
+13 dBm ±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 -94 dBc/Hz				
1 KHz -123 dBc/Hz				
10 KHz -147 dBc/Hz				
100 KHz -148 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				
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

5.36 x 4 x 1"

### **Connectors**

RF Input/Output: SMA(f)

Power, Monitoring: Feed Thru Terminals

**GND: Ground Turret** 

### **Packaging**

Nickel-plated machined aluminum housing – J2PM

### **Mounting**

Threaded inserts on base,

6 places, #2-56

## **POWER REQUIREMENTS**

Warm-Up Power

≤ 16.5 Watts for 5 minutes

#### **Total Power**

≤ 13 Watts at +25°C

# **Supply Voltage**

+15 VDC ±5%

### **ADJUSTMENT**

## Loop BW

Target Bandwidth: ~200 Hz

Type 2 Loop

#### **CRYSTAL**

### **Type**

120 MHz SC-cut (x16)

# **OTHER**

### Label

Use conventional label with the

following information:

501-25762 (Current Rev.)

1.92 GHz MXO-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
-	04-12-12	Initial Release	PAC	

J2PM MXO Connections			
Connector	Function		
1 2 4 5 6 7	Supply Voltage Ground, Case RF Output Phase Lock Voltage Phase Lock Alarm External Reference Input		



