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 <sup>-6</sup> first year	
after 30 days operating, typical	
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)	١g
100 Hz -91 dBc/Hz	
1 KHz -118 dBc/Hz	
10 KHz -135 dBc/Hz	
100 KHz -136 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	
6.31 x 4 x 1"	
0.01 A T A 1	

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RF Input/Output: SMA(f)

Power, Monitoring: Feed Thru Terminals

**GND: Ground Turret** 

# **Packaging**

Nickel-plated machined aluminum housing – J3PM

### **Mounting**

Threaded inserts on base,

6 places, #2-56

## **POWER REQUIREMENTS**

Warm-Up Power

≤ 19 Watts for 5 minutes

### **Total Power**

≤ 15.5 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:

501-25767 (Current Rev.)

6 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	

J3PM MXO Connections				
Connector	Function			
1 2	Supply Voltage Ground, Case			
4 5	RF Output Phase Lock Voltage			
6	Phase Lock Alarm			
7	External Reference Input			



