OUIPUIS	_					
Output	Frequency	Level (into 50Ω)				
Α	10 MHz	+13 ±2 dBm				
В	700 MHz	+13 ±2 dBm				

# STABILITY Aging

 $1 \times 10^{-7}$  first year after 30 days operating, typical  $5 \times 10^{-8}$  second year, typical

 $2 \times 10^{-8}$  per year thereafter, typical

Phase Noise L(f), dBc/Hz, typical						
	10 MHz	700 MHz				
10 Hz	-140	-102				
100 Hz	-160	-120				
300 Hz	-165	-126				
1 kHz	-172	-139				
10 kHz	-174	-156				
100 kHz	-175	-168				

# **Temperature Stability**

±5 x 10<sup>-9</sup>, 0 to +50°C (Ref. +25°C)

### **Harmonics**

≤ -25 dBc

#### **Sub-Harmonics**

≤ -60 dBc

# **PLL Reference Products**

≤ -60 dBc

## **Spurious**

 $\leq$  -80 dBc, excluding power supply line related spurs

#### **Phase Lock Alarm**

TTI

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**

5.56 x 4 x 1"

#### **Connectors**

RF Outputs: SMA(f)

Power, Monitoring: Feed Thru Terminals

**GND: Ground Turret** 

### **Packaging**

Nickel-plated machined aluminum housing – J1PMX

## Mounting

Threaded inserts on base, #2-56, 9 places

# **POWER REQUIREMENTS**

## Warm-Up Power

≤ 18 Watts for 5 minutes

#### **Total Power**

≤ 11 Watts at +25°C

# **Supply Voltage**

+15 VDC ±5%

#### **ADJUSTMENT**

Mechanical Tuning (Internal 10 MHz)

±1 x 10<sup>-6</sup>

Loop BW (Internal 100 MHz PLL)

Target Bandwidth: ~300 Hz

Type 2 Loop

### **CRYSTAL**

### Type

10 MHz SC-cut

100 MHz SC-cut (x7)

# **ENVIRONMENT**

# **Operating Temperature**

0 to +50°C

# **Storage Temperature**

-50 to +85°C

# OTHER

# Label

Use conventional label with the following information: 501-25782 (Current Rev.) 10M/700M MXO-PLMX

10M/700M MXO-

+15 VDC

Serial # - Date Code

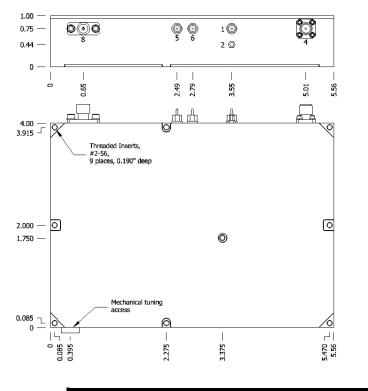
(Mark connectors with function)

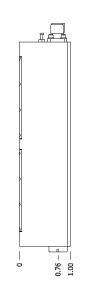
#### **Test Data**

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

REV	DATE	REVISION RECORD	DWN	AUTH
-	07-02-13	Initial Release	PAC	

J1PMX 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		







10 & 700 MHz Multiplied Crystal Oscillator (MXO-PLMX)

P/N:		Rev:	Date:			Drawn:		Ref:
501-25782		-	07	'-02-13				
Tolerances: (except as noted) Dimensions are in inches	_	Dec: 0.030"		XX Dec: 0.010"	F	есм: 62821	Page	e 1 of 1