OUTPUTS							
Output	Frequenc	y Level (into 50Ω)					
Α	10 MHz	+13 ±2 dBm					
В	3.5 GHz	+13 ±2 dBm					
STABILITY							
Aging	_						
1 x 10 <sup>-7</sup> first year							
	after 30 days operating, typical						
	5 x 10 <sup>-8</sup> second year, typical						
2 x 10 <sup>-8</sup> per year thereafter, typical							
Phase Noise L(f), dBc/Hz, typical							
	10 MHz	3.5 GHz					
10 Hz	-140	-84					
100 Hz	-160	-101					
300 Hz	-165	-105					
1 kHz	-172	-118					
10 kHz	-174	-136					
100 kHz	-175	-137					

## **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**

≤ -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**

6.51 x 4 x 1"

#### Connectors

RF Outputs: SMA(f)

Power, Monitoring: Feed Thru Terminals

**GND: Ground Turret** 

# **Packaging**

Nickel-plated machined aluminum housing – J2PMX

## Mounting

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

#### POWER REQUIREMENTS

## Warm-Up Power

≤ 20.5 Watts for 5 minutes

#### **Total Power**

≤ 13.5 Watts at +25°C

# Supply Voltage

+15 VDC ±5%

## **ADJUSTMENT**

Mechanical Tuning (Internal 10 MHz)

±1 x 10<sup>-6</sup>

Loop BW (Internal 70 MHz PLL)

Target Bandwidth: ~250 Hz

Type 2 Loop

#### **CRYSTAL**

#### Type

70 MHz SC-cut (x50)

## **OTHER**

#### Label

Use conventional label with the following information: 501-26705 (Current Rev.)

10M/3.5GHz MXO-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
-	03-27-13	Initial Release	PAC	

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			



