OUTPUT	S	
Output	Frequency	Level (into 50Ω)
Α	10 MHz	+13 ±2 dBm
В	100 MHz	+13 ±2 dBm
С	1 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

i ilaco itoloo E(i), aboiile, typicai					
	10 MHz	100 MHz	10 GHz		
10 Hz	-140	-120	-77		
100 Hz	-160	-138	-95		
300 Hz	-165	-144	-99		
1 kHz	-172	-157	-112		
10 kHz	-174	-174	-129		
100 kHz	-175	-176	-132		

# **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**

7.46 x 4 x 1"

## Connectors

RF Outputs: SMA(f)

Power, Monitoring: Feed Thru Terminals

**GND: Ground Turret** 

## **Packaging**

Nickel-plated machined aluminum housing – J3PMX-05

## Mounting

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

### POWER REQUIREMENTS

## Warm-Up Power

≤ 26 Watts for 5 minutes

### **Total Power**

≤ 19 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

100 MHz SC-cut (x100)

## **OTHER**

### Label

Use conventional label with the following information:

501-25939 (Current Rev.)

10M/100M/10GHz MXO-PLMX

+15 VDC

Serial # - Date Code

(Mark connectors with function)

#### **Test Data**

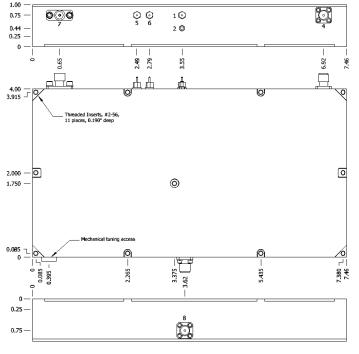
- Output Level
- Phase Noise
- Temperature Stability
- Harmonics, Subs, Products, Spurs
- Power Warm-up and Total

REV	DATE	REVISION RECORD	DWN	AUTH
-	06-13-12	Initial Release	PAC	

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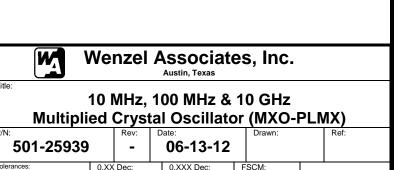
J3PMX-05 MXO Connections			
Connector	Function		
1	Supply Voltage		
2	Ground, Case		
4	RF Output C		
5	Phase Lock Voltage		
6	Phase Lock Alarm		
7	RF Output A		
8	RF Output B		



 $\pm 0.030$ "

(except as noted)

Dimensions are in inches



 $\pm 0.010$ "