INDUT
INPUT
Frequency 10 MHz
Level
+13 dBm ±1 dB into 50 ohms
OUTPUT
Frequency
3 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 -98 dBc/Hz
1 KHz -125 dBc/Hz 10 KHz -142 dBc/Hz 100 KHz -143 dBc/Hz
Temperature Stability
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
<ul> <li>-80 dBc, excluding power supply line related spurs</li> </ul>
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

≤ 17 Watts for 5 minutes

#### **Total Power**

≤ 13.5 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 (x30)

## **OTHER**

## Label

Use conventional label with the

following information:

501-25763 (Current Rev.)

3 GHz MXO-PLM

+15 VDC

Serial # - Date Code

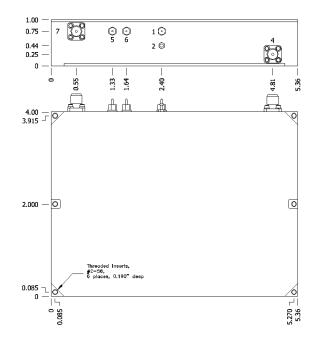
(Mark connectors with function)

## **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	Supply Voltage		
2	Ground, Case		
4	RF Output		
5	Phase Lock Voltage		
6	Phase Lock Alarm		
7	External Reference Input		



#### Wenzel Associates, Inc. Austin, Texas 3 GHz Multiplied Crystal Oscillator (MXO-PLM) Date: Drawn: Ref: Rev: 501-25763 04-12-12 0.XXX Dec: Tolerances: 0.XX Dec: FSCM: (except as noted) Page 1 of 2 62821 $\pm 0.030$ " ±0.010" Dimensions are in inches