Output	Frequency	Level (into 50Ω)			
Α	10 MHz	+13 ±2 dBm			
В	640 MHz	+13 ±2 dBm			

STABILITY Aging

ALITBUITS

1 x 10⁻⁷ first year after 30 days operating, typical 5 x 10⁻⁸ second year, typical

 3×10^{-8} per year thereafter, typical

Phase Noise L(f), dBc/Hz, typical						
	10 MHz	640 MHz				
10 Hz	-140	-102				
100 Hz	-160	-121				
300 Hz	-165	-124				
1 kHz	-172	-136				
10 kHz	-174	-153				
100 kHz	-175	-155				

Temperature Stability

±5 x 10⁻⁹, 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

TIL

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

≤ 19 Watts for 5 minutes

Total Power

≤ 12 Watts at +25°C

Supply Voltage

+15 VDC ±5%

ADJUSTMENT

Mechanical Tuning (Internal 10 MHz)

±1 x 10⁻⁶

Loop BW (Internal 80 MHz PLL)

Target Bandwidth: $\sim \! 300 \; \text{Hz}$

Type 2 Loop

CRYSTAL

Type

10 MHz SC-cut 80 MHz SC-cut (x8)

ENVIRONMENT

Operating Temperature

0 to +50°C

Storage Temperature

-50 to +85°C

OTHER

Label

Use conventional label with the following information: 501-25781 (Current Rev.) 10M/640M MXO-PLMX +15 VDC Serial # - Date Code

Serial # - Date Code

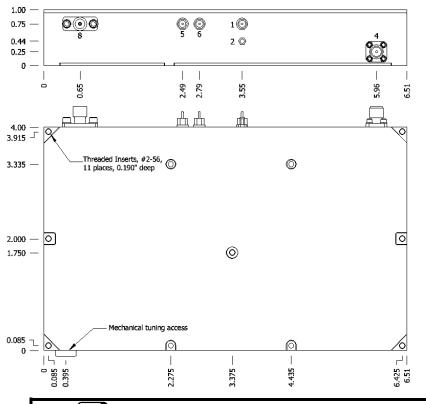
(Mark connectors with function)

Test Data

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

REV	DATE	REVISION RECORD	DWN	AUTH
-	07-26-13	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		



Wenzel Associates, Inc. Austin, Texas Title: 10 & 640 MHz Multiplied Crystal Oscillator (MXO-PLMX)

P/N:		Rev:	Da	ite:	Drawn:		Ref:
501-25781		ı		07-26-13			
Tolerances: (except as noted) Dimensions are in inches	-	Dec: 0.030"	,	0.XXX Dec: ±0.010"	ъсм: 62821	Page	e 1 of 1