OUTPUIS		
Output	Frequency	Level (into 50Ω)
Α	10 MHz	+13 ±2 dBm
В	320 MHz	+13 ±2 dBm

STABILITY Aging

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

 2×10^{-8} per year thereafter, typical

Phase Noise L(f), dBc/Hz, typical 10 MHz 320 MHz 10 Hz -140 -109 100 Hz -160 -128 300 Hz -165 -131 1 kHz -172 -143 -174 -160 10 kHz 100 kHz -175 -162

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

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 10⁻⁶

Loop BW (Internal 80 MHz PLL)

Target Bandwidth: $\sim \! 300 \; Hz$

Type 2 Loop

CRYSTAL

Type

10 MHz SC-cut 80 MHz SC-cut (x4)

ENVIRONMENT

Operating Temperature

0 to +50°C

Storage Temperature

-50 to +85°C

OTHER

Label

Use conventional label with the following information: 501-25777 (Current Rev.) 10M/320M MXO-PLMX

+15 VDC

Serial # - Date Code

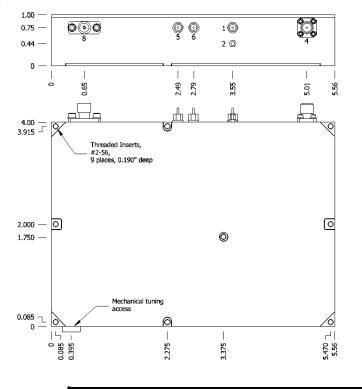
(Mark connectors with function)

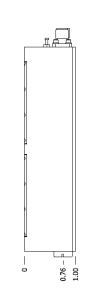
Test Data

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

REV	DATE	REVISION RECORD	DWN	AUTH
•	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 & 320 MHz Multiplied Crystal Oscillator (MXO-PLMX)

P/N:		Rev:	Date:		Drawn:		Ref:
501-25777		-	07	'-02-13			
Tolerances: (except as noted) Dimensions are in inches	-	Dec: 0.030"		XX Dec: :0.010"	ъсм: 62821	Page	e 1 of 1