OUTPUIS	•		
Output	Frequency	Level (into 50Ω)	
Α	10 MHz	+13 ±2 dBm	
В	200 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	200 MHz			
10 Hz	-140	-113			
100 Hz	-160	-131			
300 Hz	-165	-137			
1 kHz	-172	-150			
10 kHz	-174	-167			
100 kHz	-175	-169			

Temperature Stability

 $\pm 5 \times 10^{-9}$, 0 to $+50^{\circ}$ C (Ref. $+25^{\circ}$ C)

Harmonics

≤ -25 dBc

Sub-Harmonics

≤ -60 dBc

PLL Reference Products

 \leq -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

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

≤ 16.5 Watts for 5 minutes

Total Power

≤ 9.5 Watts at +25°C

Supply Voltage

+15 VDC ±5%

ADJUSTMENT

Mechanical Tuning (Internal 10 MHz)

±1 x 10⁻⁶

Loop BW (Internal 100 MHz PLL)

Target Bandwidth: ~300 Hz

Type 2 Loop

CRYSTAL

Type

10 MHz SC-cut 100 MHz SC-cut (x2)

ENVIRONMENT

Operating Temperature

0 to +50°C

Storage Temperature

-50 to +85°C

OTHER

Label

Use conventional label with the following information: 501-25775 (Current Rev.) 10M/200M MXO-PLMX +15 VDC

+12 ADC

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	





