OUTPUTS					
	Frequency	Level (into 50Ω)			
A	10 MHz	+13 ±2 dBm			
В	8 GHz	+13 ±2 dBm			
STABILITY					
Aging					
1 x 10 ⁻⁷ first year					
after 30 days operating, typical					
5 x 10 ⁻⁸ second year, typical					
2 x 10 ⁻⁸ per year thereafter, typical					
Phase Noise L(f), dBc/Hz, typical					
	10 MHz	8 GHz			
10 Hz	-140	-79			
100 Hz	-160	-97			
300 Hz	-165	-102			
1 kHz	-172	-115			
10 kHz	-174	-132			
100 kHz	-175	-134			
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

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

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 10⁻⁶

Loop BW (Internal 80 MHz PLL)

Target Bandwidth: ~300 Hz

Type 2 Loop

CRYSTAL

Type

10 MHz

80 MHz SC-cut (x100)

OTHER

Label

Use conventional label with the

following information:

501-25503 (Current Rev.)

10M/8GHz 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
-	08-07-13	Initial Release	PAC	

J3PMX 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		



