CUTDUTO					
OUTPUT Output	S Frequency	Level (into 50Ω)			
A	10 MHz	+13 ±2 dBm			
A	-				
В	10.24 GHz	+13 ±2 dBm			
STABILI	ΓY				
Aging	7				
	⁻⁷ first year				
after 30 days operating, typical					
	5 x 10 ⁻⁸ second year, typical				
2 x 10	⁻⁸ per year ther	eafter, typical			
Phase No	oise L(f), dBc/ł	-dz, typical			
40.11	10 MHz 10.2				
10 Hz	-140 160	-77 .06			
100 Hz 300 Hz		-96 -99			
1 kHz		-99 ·111			
10 kHz		·128			
100 kHz		·130			
±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

≤ 27 Watts for 5 minutes

Total Power

≤ 20 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

80 MHz SC-cut (x128)

OTHER

Label

Use conventional label with the following information:

501-25797 (Current Rev.)

10M/10.24GHz 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
-	08-14-13	Initial Release	PAC	

J3PM)	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		



