	OUTPUTS					
Output	Frequency	Level (into $50\Omega$ )				
Α	10 MHz	+13 ±2 dBm				
В	12 GHz	+13 ±2 dBm				
STABILI	ΓY					
Aging	Aging					
	1 x 10 <sup>-7</sup> first year					
	after 30 days operating, typical					
5 x 10	5 x 10 <sup>-8</sup> second year, typical					
2 x 10	2 x 10 <sup>-8</sup> per year thereafter, typical					
Phase No	oise L(f), dBc/ŀ	-draid de la della de la della de la della de la della del				
	10 MHz 12 (					
10 Hz	-	75				
100 Hz	-160 -9	•				
300 Hz	-165 -9					
1 kHz 10 kHz		10 27				
	-175 -1	<b>-</b> :				
100 KHZ	175	20				
Tempera	ture Stability					
±5 x 1	0 <sup>-9</sup> , 0 to +50°C	(Ref. +25°C)				
Harmoni	cs	,				
≤ -25 (	dBc					
Sub-Harı						
≤ -60 (						
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						
DE O ( ) OMA (()						

RF Outputs: SMA(f)

**GND: Ground Turret** 

Power, Monitoring: Feed Thru Terminals

Packaging	
Milabal abada d	

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<sup>-6</sup>

Loop BW (Internal 100 MHz PLL)

Target Bandwidth: ~250 Hz

Type 2 Loop

#### **CRYSTAL**

### Type

100 MHz SC-cut (x120)

## OTHER

#### Label

Use conventional label with the following information:

501-25799 (Current Rev.)

10M/12G 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	
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J3PMX MXO Connections				
Function				
Supply Voltage Ground, Case RF Output B Phase Lock Voltage Phase Lock Alarm RF Output A				



