INPUT	
Frequency	
10 MHz	
Level	
+13 dBm ±1 dB into	o 50 ohms
OUTPUT	
Frequency	
8 GHz	
Level	
+13 dBm ±2 dB into	o 50 ohms
STABILITY	
Aging (free-running)	
1 x 10 ⁻⁶ first year	
after 30 days opera	ating, typical
5×10^{-7} second ver	ar typical
5 x 10 ⁻⁷ second yea 3 x 10 ⁻⁷ per year th	ai, typicai
3 x 10 per year th	erearter, typicai
Phase Noise L(f), typ	
100 Hz -89 dE 1 KHz -116 d	
	,
100 KHz -134 c	IBC/HZ
Temperature Stability ±5 x 10 ⁻⁷ free-runni	y
±5 x 10 free-runni	ng from 0 to +50°C
(Ref. +25°C)	
Harmonics	
-25 dBc	
Sub-Harmonics	
-60 dBc	
PLL Reference Produ	ucts
-60 dBc	
Spurious	
-80 dBc, excluding	
supply line related	spurs
Phase Lock Alarm	
TTL	
Locked: +3.5 VDC	to +5.2 VDC (Hi)
Out-of-Lock: +0.8 \	
Phase Lock Voltage	
Voltage monitor pir	ı supplied
MECHANICAL	
Dimensions	
6.31 x 4 x 1"	

^ -				
50	nn	eci	ors	•

RF Input/Output: SMA(f)

Power, Monitoring: Feed Thru Terminals

GND: Ground Turret

Packaging

Nickel-plated machined aluminum housing – J3PM

Mounting

Threaded inserts on base,

6 places, #2-56

POWER REQUIREMENTS

Warm-Up Power

≤ 20 Watts for 5 minutes

Total Power

≤ 16.5 Watts at +25°C

Supply Voltage

+15 VDC ±5%

ADJUSTMENT

Loop BW

Target Bandwidth: ~200 Hz

Type 2 Loop

CRYSTAL

Type

100 MHz SC-cut (x80)

OTHER

Label

Use conventional label with the

following information:

501-25491 (Current Rev.)

8 GHz MXO-PLM

+15 VDC

Serial # - Date Code

(Mark connectors with function)

Test Data

- Output Level
- Phase Noise free-running
- Harmonics, Subs, Products, Spurious
- Power Warm-up and Total

REV	DATE	REVISION RECORD	DWN	AUTH
-	04-12-12	Initial Release	PAC	

J3PM MXO Connections		
Connector	Function	
1 2	Supply Voltage Ground, Case	
4 5	RF Output Phase Lock Voltage	
6	Phase Lock Alarm	
7	External Reference Input	



