INPUT	
Frequency	
10 MHz	
Level	1 ID 1:11 FO II III
	1 dB into 50 ohms
OUTPUT	
Frequency	
7 GHz Level	
	2 dB into 50 ohms
+13 dBm ±2 STABILITY	2 dB into 50 onms
	nning)
Aging (free-ru	nning)
1 x 10 ⁻⁶ first	year
after 30 day	s operating, typical
5 x 10 g sec	ond year, typical
3 x 10 ⁻⁷ per	year thereafter, typical
	_(f), typical, (free-running)
100 Hz	-87 dBc/Hz
1 KHz	-113 dBc/Hz
1 KHz 10 KHz 100 KHz	-130 dBc/Hz
	-131 dBc/Hz
Temperatu <u>r</u> e S	Stability
±5 x 10 ⁻⁷ fre	ee-running from 0 to +50°C
(Ref. +25°C	5)
Harmonics	
-25 dBc	
Sub-Harmonic	cs
-60 dBc	
PLL Reference	e Products
-60 dBc	
Spurious	
	cluding power
	related spurs
Phase Lock A	larm
TTL	
Locked: +3.	5 VDC to +5.2 VDC (Hi)
	:: +0.8 VDC max (Lo)
	oltage Monitor
	nitor pin supplied
MECHANICAL	•
Dimensions	"
6.31 x 4 x 1	

<u> </u>			-4	_	
ററ	m	ne	CT	n	rs

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

≤ 18.5 Watts for 5 minutes

Total Power

≤ 15 Watts at +25°C

Supply Voltage

+15 VDC ±5%

ADJUSTMENT

Loop BW

Target Bandwidth: ~200 Hz

Type 2 Loop

CRYSTAL

Type

70 MHz SC-cut (x100)

OTHER

Label

Use conventional label with the

following information:

501-25768 (Current Rev.)

7 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	



