INPUT
Frequency 10 MHz
Level
+13 dBm ±1 dB into 50 ohms
OUTPUT
Frequency
200 MHz
Level
+13 dBm ±2 dB into 50 ohms
STABILITY
Aging (free-running)
1 x 10 ⁻⁶ first year
after 30 days operating, typical
5 x 10 ⁻⁷ second year, typical
3 x 10 ⁻⁷ per year thereafter, typical
Phase Noise L(f), typical, (free-running)
100 Hz -123 dBc/Hz
1 KHz -151 dBc/Hz
10 KHz -167 dBc/Hz
100 KHz -168 dBc/Hz
Temperature Stability
$\pm 5 \times 10^{-7}$ free-running from 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)

Voltage monitor pin supplied

Phase Lock Voltage Monitor

MECHANICAL Dimensions

4.40 x 4 x 1"

Connectors

RF Input/Output: SMA(f)

Power, Monitoring: Feed Thru Terminals

GND: Ground Turret

Packaging

Nickel-plated machined aluminum housing – J1PM

Mounting

Threaded inserts on base,

6 places, #2-56

POWER REQUIREMENTS

Warm-Up Power

≤ 11 Watts for 5 minutes

Total Power

≤ 7.5 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 (x2)

OTHER

Label

Use conventional label with the

following information:

501-25748 (Current Rev.)

200 MHz 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	

J1PM MXO Connections		
Connector	Function	
1 2 4 5 6 7	Supply Voltage Ground, Case RF Output Phase Lock Voltage Phase Lock Alarm External Reference Input	



