INPUT
Frequency
5 MHz
Level
+13 dBm ±1 dB into 50 ohms
OUTPUT
Frequency
9 GHz 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 -88 dBc/Hz
1 KHz -114 dBc/Hz
10 KHz -131 dBc/Hz
100 KHz -132 dBc/Hz
Temperature Stability
$\pm 5 \times 10^{-7}$ free-running from 0 to $\pm 50^{\circ}$ 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
6.31 x 4 x 1"
0.01 / 4 / 1

Connectors

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

≤ 21 Watts for 5 minutes

Total Power

≤ 17 Watts at +25°C

Supply Voltage

+15 VDC ±10%

ADJUSTMENT

Loop BW

Target Bandwidth: <300 Hz

Type 2 Loop

CRYSTAL

Type

100 MHz SC-cut (x90)

OTHER

Label

Use conventional label with the

following information:

501-29519 (Current Rev.)

9 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
-	10-30-15	Initial Release	CB	
Α	03-10-16	Voltage to ± 10%	CB	

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



