INPUT				
Frequency 10 MHz				
Level				
+13 dBm ±1 dB into 50 ohms				
OUTPUT				
Frequency				
240 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 -120 dBc/Hz				
1 KHz -146 dBc/Hz				
10 KHz -163 dBc/Hz				
100 KHz -165 dBc/Hz				
Temperature Stability				
±5 x 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				
-00 abo, excluding power				

Phase Lock Alarm

Locked: +3.5 VDC to +5.2 VDC (Hi) Out-of-Lock: +0.8 VDC max (Lo)

Phase Lock Voltage Monitor

supply line related spurs

Voltage monitor pin supplied

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

≤ 12.5 Watts for 5 minutes

Total Power

≤ 9 Watts at +25°C

Supply Voltage

+15 VDC ±5%

ADJUSTMENT

Loop BW

Target Bandwidth: ~300 Hz Type 2 Loop

CRYSTAL

Type

80 MHz SC-cut (x3)

OTHER

Label

Use conventional label with the following information:

501-27927 (Current Rev.)

240 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
-	03-14-14	Initial Release	Liz	

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		



