<u>I</u> NPUT				
Frequency				
10 MHz Level				
+10 dBm ±3 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				
3 v 10 ⁻⁷ per year thereafter typical				
Phase Noise L(f), typical, (free-running)				
10 Hz -93 dBc/Hz				
100 Hz -123 dBc/Hz				
1 KHz -151 dBc/Hz				
10 KHz -167 dBc/Hz				
100 KHz -168 dBc/Hz				
Temperature Stability				
±5 x 10 ⁻⁷ free-running from 0 to +50°C				
(Ref. +25℃)				
Harmonics				
-25 dBc				
Sub-Harmonics				
-60 dBc				
PLL Divider Products				
-60 dBc				
Spurious				
-80 dBc, excluding power				
supply line related spurs				
Phase Lock Alarm				
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				
voltage monitor pin supplied				

MECHANICAL

3.45 x 4 x 1"

Dimensions

Connectors

RF Input/Output: SMA(f)

Power, Monitoring: Feed Thru Terminals

GND: Ground Turret

Packaging

Nickel-plated machined aluminum housing – J1P

Mounting

Threaded inserts on base,

6 places, #2-56

POWER REQUIREMENTS

Warm-Up Power

≤ 9 Watts for 5 minutes

Total Power

≤ 6 Watts at +25°C

Supply Voltage

+15 VDC ±5%

ADJUSTMENT

Loop BW

Target Bandwidth: ≤ 10 Hz

Type 2 Loop

CRYSTAL

Type

100 MHz SC-cut (x2)

OTHER Label

Use conventional label with the

following information:

501-21935 (Current Rev.)

200 MHz MXO-PLD

+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
-	01-12-10	Initial Release	VG	
Α	05-25-10	Update outline dwg to remove MT	JH	
В	06-03-13	10 Hz, Input Level	Liz	

J1P 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	



