INPUT Frequency 10 MHz Level +7 dBm ±6 dB into 50 ohms **OUTPUT** Frequency 10.24 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 -87 dBc/Hz 1 KHz -112 dBc/Hz 10 KHz -129 dBc/Hz 100 KHz -130 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 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 **MECHANICAL Dimensions** 5.36 x 4 x 1"

Connectors

RF Input/Output: SMA(f)

Power, Monitoring: Feed Thru Terminals

GND: Ground Turret

Packaging

Nickel-plated machined aluminum housing – J3P

Mounting

Threaded inserts on base,

#2-56, 6 places

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: ≤ 10 Hz

Type 2 Loop

CRYSTAL

Type

80 MHz SC-cut (x128)

OTHER

Label

Use conventional label with the following information:

501-25413 (Current Rev.)

10.24 GHz MXO-PLD

+15 VDC

Serial # - Date Code

(Mark connectors with function)

Test Data

- Output Level
- Phase Noise free-running
- Temperature Stability free-running
- Harmonics, Subs, Products, Spurious
- Power Warm-up and Total

REV	DATE	REVISION RECORD	DWN	AUTH
-	03-28-12	Initial Release	PAC	

J3P MXO Connections				
Connector	Function			
1 2	Supply Voltage Ground, Case			
4	RF Output			
5	Phase Lock Voltage			
6	Phase Lock Alarm			
7	External Reference Input			



