INPUT Frequency 10 MHz Level +7 dBm ±6 dB into 50 ohms OUTPUT Frequency 8.25 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) 10 Hz -65 dBc/Hz 100 Hz -95 dBc/Hz 1 KHz -120 dBc/Hz 10 KHz -134 dBc/Hz 100 KHz -135 dBc/Hz 1 MHz -135 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 TTL Locked: +3.5 VDC to +5.2 VDC (Hi) Out-of-Lock: +0.8 VDC max (Lo)				
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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 Alarm TTL Locked: +3.5 VDC to +5.2 VDC (Hi) Out-of-Lock: +0.8 VDC max (Lo)				
TTL Locked: +3.5 VDC to +5.2 VDC (Hi) Out-of-Lock: +0.8 VDC max (Lo)				
Locked: +3.5 VDC to +5.2 VDC (Hi) Out-of-Lock: +0.8 VDC max (Lo)				
Out-of-Lock: +0.8 VDC max (Lo)				
Phase Lock Voltage Monitor				
Voltage monitor pin supplied				
MECHANICAL				
Dimensions				
4.4 x 4 x 1"				

Connectors

RF Input/Output: SMA(f)

Power, Monitoring: Feed Thru Terminals

GND: Ground Turret

Packaging

Nickel-plated machined aluminum housing – J2P

Mounting

Threaded inserts on base,

#2-56, 6 places

POWER REQUIREMENTS

Warm-Up Power

≤ 14.5 Watts for 5 minutes

Total Power

≤ 11 Watts at +25°C

Supply Voltage

+15 VDC ±5%

ADJUSTMENT

Loop BW

Target Bandwidth: ≤ 10 Hz

Type 2 Loop

CRYSTAL

Type

110 MHz SC-cut (x75)

OTHER

Label

Use conventional label with the

following information:

501-30217 (Current Rev.)

8.25 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
-	08-03-16	Initial Release	PAC	
		_		

J2P MXO Connections				
Connector	Function			
1	Supply Voltage			
2	Ground, Case			
4	RF Output			
5	Phase Lock Voltage			
6	Phase Lock Alarm			
7	External Reference Input			



