INPUT Frequency 10 MHz Level +7 dBm ±6 dB into 50 ohms **OUTPUTS Output Level** RF Output Frequency (into 50 ohms) 100 MHz +13 dBm +2 dB Α R 300 MHz +13 dBm ±2 dB 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), dBc/Hz, typical, (free-running) 100 MHz 300 MHz 10 Hz -100 -89 100 Hz -130 -119 1 kHz -158 -147 10 kHz -175 -163 100 kHz -176 -164 1 MHz -176 -164 **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)

Phase Lock Voltage Monitor Voltage monitor pin supplied

MECHANICAL				
Dimensions				
3.45 x 4 x 1"				

Connectors

RF Input/Outputs: SMA(f)

Power, Monitoring: Feed Thru Terminals

GND: Ground Turret

Packaging

Nickel-plated machined aluminum housing - J1P-01

Mounting

Threaded inserts on base. #2-56. 6 places

POWER REQUIREMENTS

Warm-Up Power

≤ 11 Watts for 5 minutes

Total Power

≤ 8 Watts at +25°C

Supply Voltage

+15 VDC ±5%

ADJUSTMENT

Loop BW

Target Bandwidth: ≤ 50 Hz Type 2 Loop

CRYSTAL

Type

100 MHz SC-cut (x3)

OTHER

Label

Use conventional label with the following information: 501-28340 (Current Rev.) 100M/300M MXO-PLD +15 VDC Serial # - Date Code (Mark connectors with function)

Test Data

- Output Level
- Phase Noise free-running
- Temperature Stability free-running
- purious
- Power Warm-up and Total

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REV	DATE	REVISION RECORD	DWN	AUTH
-	08-12-14	Initial Release	Liz	

J1P-01 MXO Connections				
Connector	Function			
1	Supply Voltage			
2	Ground, Case			
4	RF Output B			
5	Phase Lock Voltage			
6	Phase Lock Alarm			
7	External Reference Input			
8	RF Output A			



