INPUT Frequency 10 MHz Level +7 dBm ±6 dB into 50 ohms OUTPUT Frequency 3.5 GHz Level +13 dBm ±2 dB into 50 ohms **STABILITY** Aging (free-running) 1 x 10⁻⁶ first year after 30 days operating, typical 5×10^{-7} second year, typical 3×10^{-7} per vear thereafter, typical Phase Noise L(f), typical, (free-running) -93 dBc/Hz 100 Hz 1 KHz -120 dBc/Hz 10 KHz -137 dBc/Hz -138 dBc/Hz 100 KHz **Temperature Stability** $\pm 5 \times 10^{-7}$ 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 TTI 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 4.40 x 4 x 1"

	REV	DATE	REVISION RECORD		DWN	AUTH
Connectore	-	01-26-18	Initial Release		CB	
Connectors						
RF Input/Output: SMA(f)						
Power, Monitoring: Feed Thru Terminals						
GND: Ground Turret						
Packaging						
Nickel-plated machined						
aluminum housing – J2P						
Mounting			J2P MXO Connec	tions		
Threaded inserts on base,			Connector Function			
#2-56, 6 places			1 Supply Volta 2 Ground, Cas			
POWER REQUIREMENTS			4 RF Output 5 Phase Lock			
Warm-Up Power			6 Phase Lock			
≤ 14.5 Watts for 5 minutes			/ External ver	erence input		
Total Power		1.00 —				
≤ 11 Watts at +25°C		0.75 —	0 0 1 0			
Supply Voltage		0.44 —	5 6 2 ©	4		
+12 VDC ±5%		0.25 — 0 —	6-6-6'	Ë.		
ADJUSTMENT		U —	· 6 2 8 8	0 <u>0</u>		
Loop BW			0.40 0.64 0.64 1.45] 3.85 4.40		
Target Bandwidth: ≤ 10 Hz		4.00				
Type 2 Loop		4.00 — 3.915 「	2/	Q		
CRYSTAL						
Туре						
70 MHz SC-cut (x50)						
OTHER						
Label				_		
Use conventional label with the		2.000 —	2	0		
following information:						
501-31431 (Current Rev.)						
3.5 GHz MXO-PLD						
+12 VDC			Threaded Inserts, #2-56, 6 Places, 0.150" deep			
Serial # - Date Code		0.085	V Piaces, 0.150 deep	6		
(Mark connectors with function)		0 —	<u>مر</u>	<u>کر</u> الح		
Test Data		c	0.085	4.315		
- Output Level			0	4		
- Phase Noise – free-running						
- Temperature Stability – free-running						
- Harmonics, Subs, Products, Spurious						
- Power – Warm-up and Total						
- Power – Warn-up and Total	Wenzel Associates, Inc.					
	Title:					
3.5 GHz Multiplied Crystal Oscillator (MXO-PI						LD)
	P/N: Rev: Date: Drawn: Ref:					
		1-31431	- 01-26-		R.	
	Tolerances (except as i	noted)	0.XX Dec: 0.XXX Dec:		Page 1	1
	Dimensions	are in inches	±0.030" ±0.01	0" 62821	Page I (ו ו
	-		· · · · · ·	•		