INPUT	
Frequency	
10 MHz, ±5 x 10 ⁻⁷	
Level	
+7 dBm ±5 dB into 50 ohms	
OUTPUT	
Frequency	
100 MHz	
Level	
+13 dBm ±2 dB into 50 ohms	
STABILITY	
Aging	
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), static, free-running	
100 Hz -130 dBc/Hz 1 kHz -158 dBc/Hz	
10 kHz -175 dBc/Hz	
100 kHz -175 dBc/Hz	
Temperature Stability	
±5 x 10 ⁻⁷ free-running from 0 to +50°	<u>-</u>
(Ref. +25°C)	•
Harmonics	
-30 dBc	
Sub-Harmonics	
-80 dBc	
PLL Divider Products	
-80 dBc	
Non-Harmonic 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	
2 x 2 x 1.3"	
Connectors	
SMA(f) and solder pins on side	

Warm-Up Power

Supply Voltage +12 VDC ±5% ADJUSTMENT Loop BW

Type 2 Loop

ENVIRONMENTAL

0° to +50°C

Operating Temperature

following information:

100 MHz PL Citrine

Serial # - Date Code

+12 VDC

Output Level

Test Data

501-28386 (Current Rev.)

Storage Temperature

-40° to +85°C

OTHER

Label

CRYSTAL Type

Total Power

≤ 8 Watts for 5 minutes

Target Bandwidth: ≤ 10 Hz

100 MHz SC-cut (low-g)
Acceleration Sensitivity

 \leq 3 x 10⁻¹⁰/g per axis, typical

Use conventional label with the

Phase Noise, Static, Free-Running

Power – Warm-up and Total

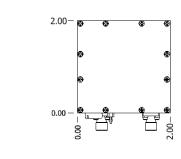
Acceleration Sensitivity

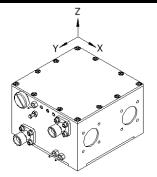
Temperature Stability, Free-Running

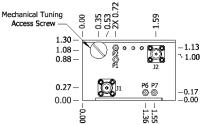
Harmonics, Subs, Products, Spurious

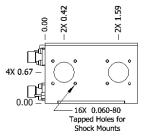
≤ 5 Watts at +25°C

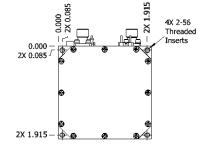
	REV	DATE	REVISION RECORD	DWN	AUTH
	-	09-03-14	Initial Release	Liz	
Packaging					
Nickel-plated machined					
aluminum case - CVPLO					
POWER REQUIREMENTS					











Title:

CVPLO						
Connector	Function					
P1	Ground, Case					
P2	Supply Voltage					
P6	Phase Lock Voltage Monitor					
P7	Phase Lock Alarm					
J1	External Reference Input					
J2	RF Output					

Connector numbers are for reference only and will not be marked on unit.

Wenzel Associates, Inc.

Austin, Texas

Premium 100 MHz-SC Phase Lock Citrine Crystal Oscillator (+12V)

	P/N:	Rev:	Rev: Date:		Drawn:		Ref:
	501-28386	-	- 09-03		03-14		ULN
	Tolerances: (except as noted) Dimensions are in inches	0.XX Dec: ±0.03		0.XXX Dec: ±0.010"	FSCM: 62821	F	Page 1 of 1