OUTPUT
Frequency
100 MHz
Level
+13 dBm ±2 dB into 50 ohms
STABILITY
Aging
1 x 10 ⁻⁶ per year
after 30 days operating, typical
Phase Noise L(f), Static
100 Hz -130 dBc/Hz
1 kHz -150 dBc/Hz
10 kHz -168 dBc/Hz
100 kHz -170 dBc/Hz
Temperature Stability
±5 x 10 ⁻⁷ , 0° to +50°C (Ref +25°C)
Harmonics
≤ -30 dBc
Spurious
≤ -90 dBc, excluding power
supply line related spurs
MECHANICAL
Dimensions
2 x 2 x 0.7"
Connectors
SMA(f) and solder pins on side
Packaging
Nickel-plated machined
aluminum case (CV-1A)
POWER REQUIREMENTS
Warm-Up Power
≤ 6 Watts for 5 minutes
Total Power
≤ 3 Watts at +25°C
Supply Voltage
+15 VDC ±5%
ADJUSTMENT
Mechanical Tuning
±4 x 10 ⁻⁶
Electrical Tuning
±2 x 10 ⁻⁷ , ±5 VDC
Negative slope
negative slope

	-	C
CRYSTAL	Α	1
Туре	-	_
100 MHz SC-Cut (low-g)		
Acceleration Sensitivity		
≤ 3 x 10 ⁻¹⁰ /g per axis, typical		

ENVIRONMENTAL **Operating Temperature**

0° to +50°C

Storage Temperature -40° to +85°C

Serial # - Date Code

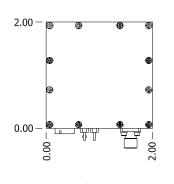
OTHER Label

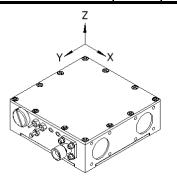
Use conventional label with the following information: 501-24977 (Current Rev.) 100 MHz Citrine +15 VDC

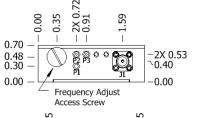
Test Data

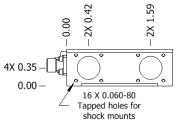
Output Level Phase Noise, Static Temperature Stability Harmonics, Spurious Power - Warm-up and Total Tuning – MT and ET

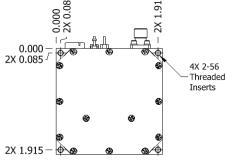
REV	DATE	REVISION RECORD	DWN	AUTH
-	09-20-11	Initial Release	PAC	
Α	10-16-12	Phase Noise	PAC	JR











CV-1A				
Connector	Function			
P1 P2 P3 J1	Ground, Case Supply Voltage Electrical Tuning RF Output			

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



Wenzel Associates, Inc.

Austin, Texas

Standard 100 MHz-SC Citrine Crystal Oscillator

P/N: 501-24977	Rev:	Date: 10-16-12		Drawn:		Ref: SPR
Tolerances: (except as noted) Dimensions are in inches	0.XX Dec: ±0.03	80"	0.XXX Dec: ±0.010"	FSCM: 62821	F	Page 1 of 1