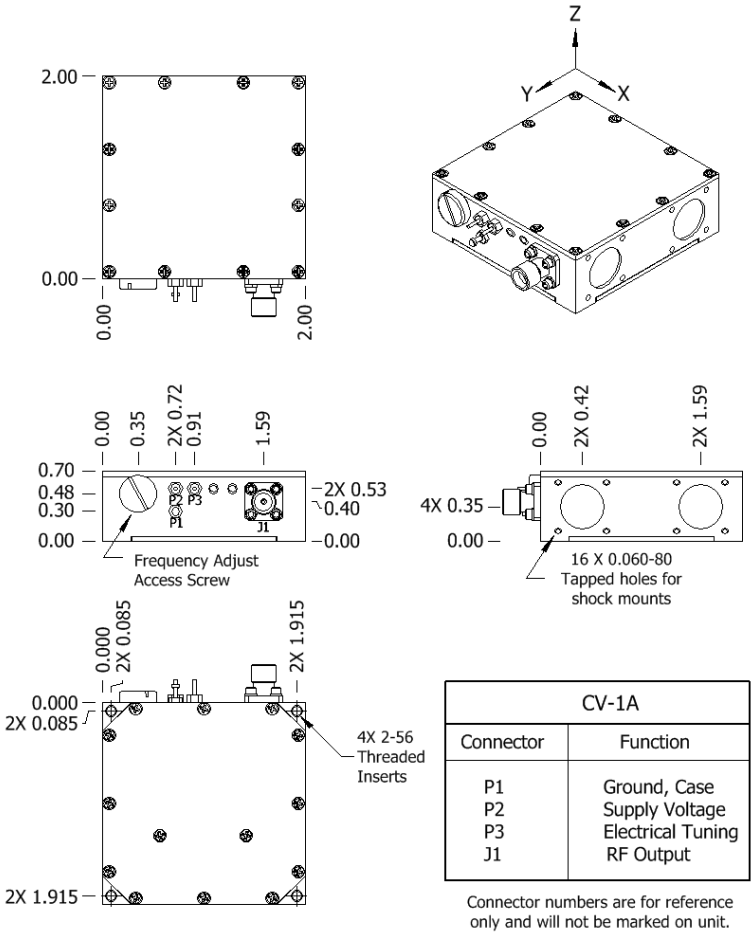
EV	DATE	REVISION RECORD	DWN	AUTH
-	05-11-12	Initial Release	PAC	
A	09-04-12	Warm-up current; Environmental	PAC	
B	05-29-13	Label Info; Acceleration Sensitivity	PAC	

OUTPUT
Frequency
100 MHz
Level
+18 dBm ±2 dB into 50 ohms
STABILITY
Aging
1×10^{-6} per year
after 30 days operating, typical
Phase Noise L(f)

100 Hz	-138 dBc/Hz
1 kHz	-163 dBc/Hz
10 kHz	-183 dBc/Hz
100 kHz	-188 dBc/Hz

Temperature Stability
$\pm 2 \times 10^{-7}$, 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
≤ 8 Watts for 5 minutes
Total Power
≤ 4 Watts at +25°C
Supply Voltage
+15 VDC ±5%
ADJUSTMENT
Mechanical Tuning
$\pm 4 \times 10^{-6}$
Electrical Tuning
$\pm 2 \times 10^{-7}$, ±5 VDC
Negative slope

CRYSTAL
Type
100 MHz SC-Cut (low-g)
Acceleration Sensitivity
$\leq 5 \times 10^{-10}$ /g per axis, typical
ENVIRONMENTAL
Operating Temperature
0° to +50°C
Storage temperature
-40° to +85°C
OTHER
Label
Use conventional label with the following information:
501-25900 (Current Rev.)
Golden Citrine
100 MHz
+15 VDC
Serial # - Date Code
Test Data
Output Level
Phase Noise, Static
Temperature Stability
Harmonics, Spurious
Power – Warm-up and Total
Tuning – MT and ET



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

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

Wenzel Associates, Inc.
Austin, Texas

Title:
100 MHz-SC Golden Citrine Crystal Oscillator

P/N:	Rev:	Date:	Drawn:	Ref:
501-25900	B	05-29-13		

Tolerances: (except as noted) Dimensions are in inches	0.XX Dec:	0.XXX Dec:	FSCM:	
	±0.030”	±0.010”	62821	Page 1 of 1