

OUTPUT

Frequency

100 MHz

Level

+18 dBm ±2 dB into 50 ohms

STABILITY

Aging

1 x 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

±2 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

≤ 8 Watts for 5 minutes

Total Power

≤ 4 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

CRYSTAL

Type

100 MHz SC-Cut (low-g)

Acceleration Sensitivity

≤ 5 x 10⁻¹⁰ /g per axis, typical

ENVIRONMENTAL

Operating Temperature

0° to +50°C

Storage temperature

-40° to +85°C

OTHER

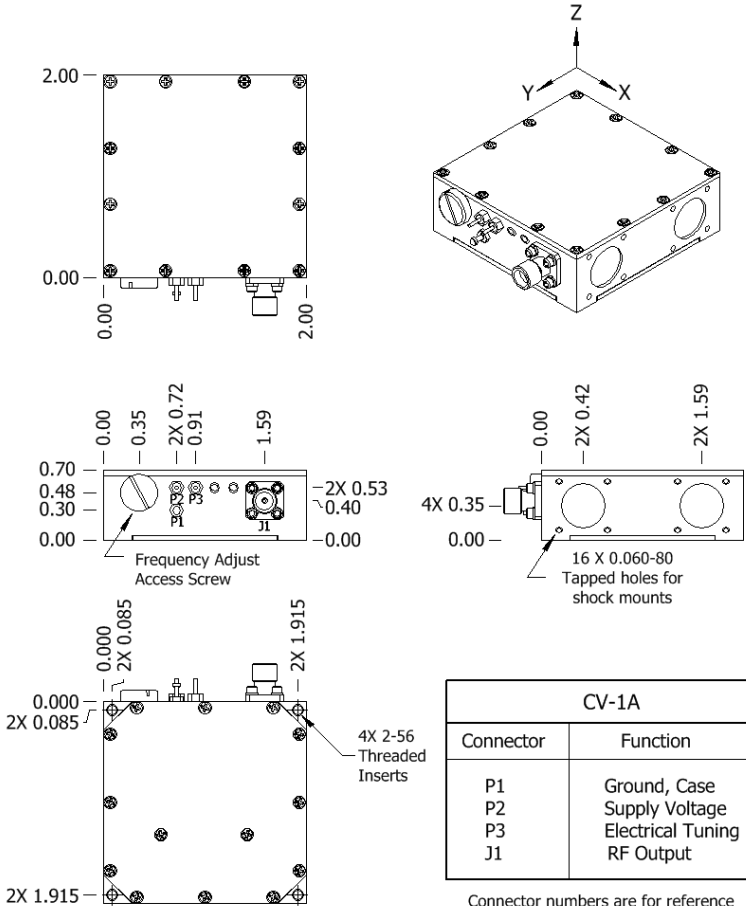
Label


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

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	





Wenzel Associates, Inc.
Austin, Texas

Title: **100 MHz-SC Golden Citrine Crystal Oscillator**

P/N: 501-25900	Rev: B	Date: 05-29-13	Drawn:	Ref:
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Tolerances: (except as noted) Dimensions are in inches	0.XX Dec: ±0.030"	0.XXX Dec: ±0.010"	FSCM: 62821	Page 1 of 1
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