

OUTPUT

Frequency

50 MHz

Level

+13 dBm ± 2 dB into 50 ohms

STABILITY

Aging

1×10^{-6} first year

after 30 days operating, typical

5×10^{-7} second year, typical

3×10^{-7} per year thereafter, typical

Phase Noise L(f), Static

100 Hz -135 dBc/Hz

1 kHz -158 dBc/Hz

10 kHz -175 dBc/Hz

100 kHz -176 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

2.8" x 3.0" x 1.15"

Connectors

SMA(f) and solder pins on side

Packaging

Nickel-plated machined
aluminum case – (CVI-1)

POWER REQUIREMENTS

Warm-Up Power

≤ 6 Watts for 5 minutes

Total Power

≤ 3 Watts at +25°C

Supply Voltage

+15 VDC $\pm 5\%$

ADJUSTMENT

Mechanical Tuning

$\pm 4 \times 10^{-6}$

Electrical Tuning

$\pm 5 \times 10^{-7}$ min, ± 5 VDC

Negative slope

CRYSTAL

Type

50 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

Resonance

(Internal Mount Natural Frequency)

~ 50 Hz, typical

OTHER

Label

Use conventional label with the
following information:

501-26252 (Current Rev.)

50 MHz Citrine

+15 VDC

Serial # - Date Code

Test Data

Output Level

Phase Noise, Static

Temperature Stability

Harmonics, Spurious

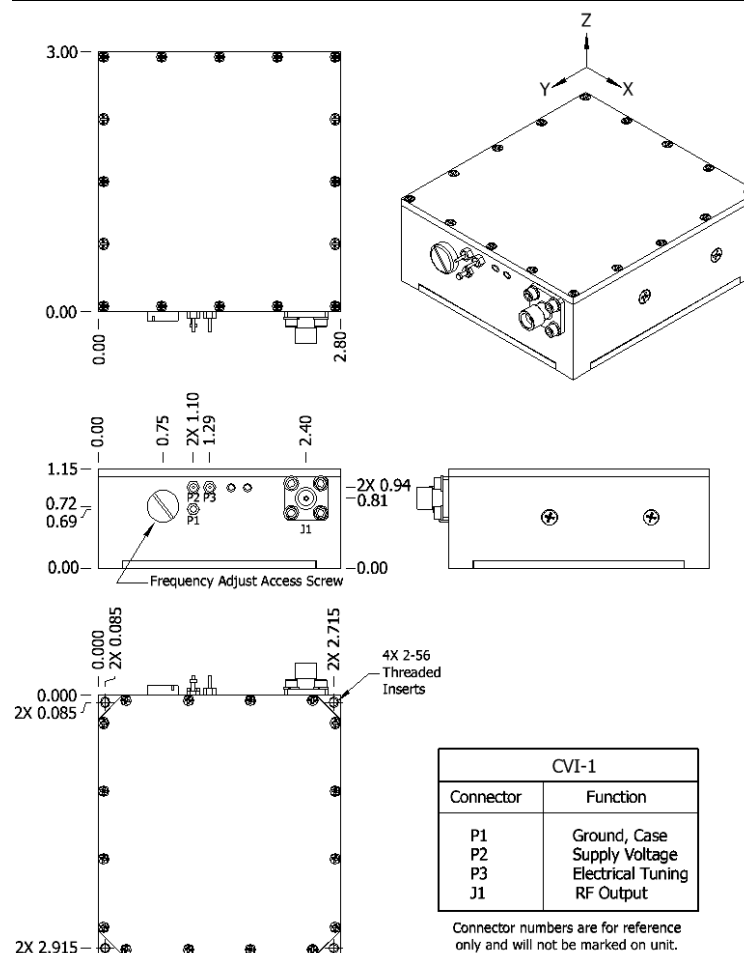
Power – Warm-up and Total

Tuning – MT and ET

Acceleration Sensitivity

Mount Natural Frequency Resonance

EV	DATE	REVISION RECORD	DWN	AUTH
-	09-06-12	Initial Release	PAC	



Wenzel Associates, Inc.

Austin, Texas

Title:

**Premium 50 MHz-SC Citrine
Vibration Isolated Crystal Oscillator**

P/N: 501-26252	Rev: -	Date: 09-05-12	Drawn:	Ref: ULN
Tolerances: (except as noted) Dimensions are in inches	0.XX Dec: ± 0.030"	0.XXX Dec: ± 0.010"	FSCM: 62821	Page 1 of 1