

OUTPUT

Frequency

250 MHz

Level

+13 dBm ± 2 dB into 50 ohms

STABILITY

Aging

1×10^{-6} per year

after 30 days operating, typical

Phase Noise L(f), Static

100 Hz -122 dBc/Hz

1 kHz -150 dBc/Hz

10 kHz -172 dBc/Hz

100 kHz -176 dBc/Hz

Phase Noise L(f), Dynamic, typical

10 Hz -64 dBc/Hz

30 Hz 71 dBc/Hz

100 Hz -96 dBc/Hz

300 Hz -117 dBc/Hz

1 kHz -138 dBc/Hz

2 kHz -150 dBc/Hz

Temperature Stability

$\pm 5 \times 10^{-7}$, 0° to +50°C (Ref +25°C)

Harmonics

≤ -25 dBc

Spurious

≤ -80 dBc, excluding power
supply line related spurs

MECHANICAL

Dimensions

2.8" x 3.0" x 1.75"

Connectors

SMA(f) and solder pins on side

Packaging

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

POWER REQUIREMENTS

Warm-Up Power

≤ 8.5 Watts for 5 minutes

Total Power

≤ 5 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

125 MHz SC-cut (low-g)

w/ x2 stage

Acceleration Sensitivity

$\leq 5 \times 10^{-10}$ /g per axis, typical

Before isolation

ENVIRONMENTAL

Operating Temperature

0° to +50°C

Storage Temperature

-40° to +85°C

Vibration Level

10 Hz to 2 kHz 0.01 g²/Hz

Resonance

(Internal Mount Natural Frequency)

~30 Hz, typical

OTHER

Label

Use conventional label with the
following information:

501-29838 (Current Rev.)

250 MHz Golden Citrine

+15 VDC

Serial # - Date Code

Test Data

Output Level

Phase Noise, Static and Dynamic

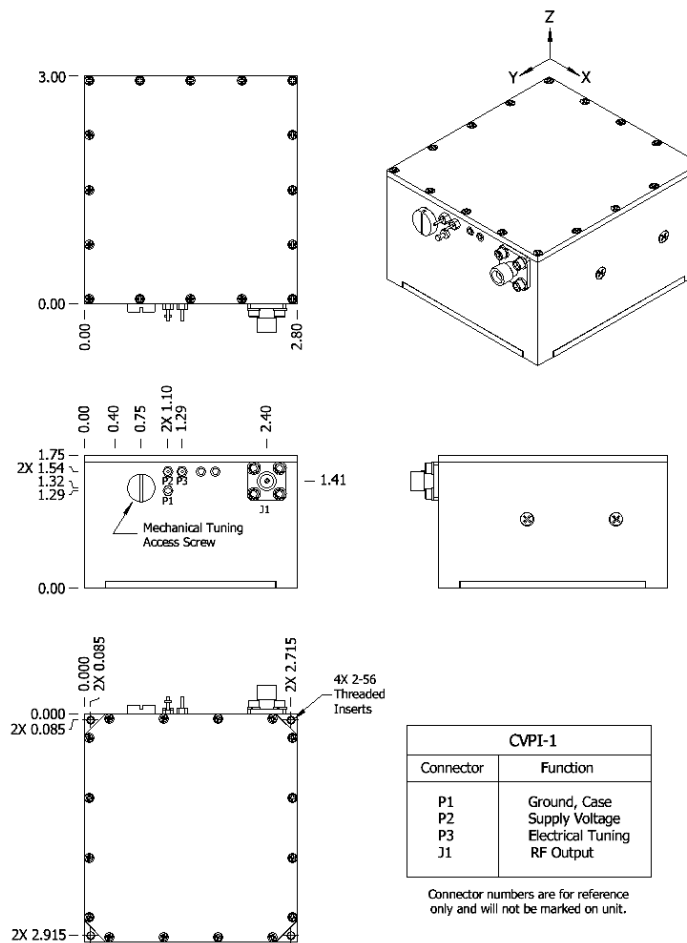
Temperature Stability

Harmonics, Spurious

Power – Warm-up and Total

Tuning – MT and ET

REV	DATE	REVISION RECORD	DWN	AUTH
-	03-07-16	Initial Release	Liz	



Wenzel Associates, Inc.

Austin, Texas

Title:

**Golden 250 MHz-SC Citrine Plus
Vibration Isolated Crystal Oscillator**

P/N: 501-29838	Rev: -	Date: 03-07-16	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