| EV | DATE | REVISION RECORD | DWN | AUTH |
|---|---|---|---|---|
| - | 01-15-13 | Initial Release | BH | JR |
| A | 05-29-13 | Updated Spec; Temp Stability; Accel Sens | PAC | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

**OUTPUT**

**Frequency**
80 MHz

**Level**
+13 dBm ±2 dB into 50 ohms

**STABILITY**

**Aging**
$1 \times 10^{-6}$ per year
after 30 days operating, typical

**Phase Noise L(f)**

| | |
|---|---|
| 100 Hz | -132 dBc/Hz |
| 1 kHz | -160 dBc/Hz |
| 10 kHz | -176 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 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**
$\pm 4 \times 10^{-6}$

**Electrical Tuning**
$\pm 5 \times 10^{-7}$, ±5 VDC
Negative slope

**CRYSTAL**

**Type**
80 MHz SC-Cut (low-g)

**Acceleration Sensitivity**
$\leq 3 \times 10^{-10}$ /g per axis, typical

**ENVIRONMENTAL**

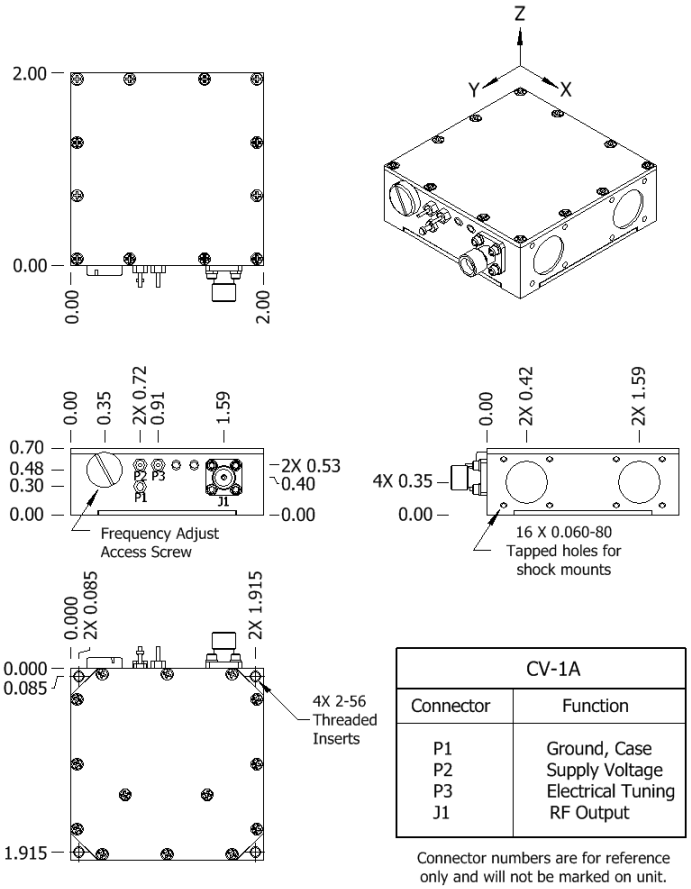
**Operating Temperature**
0° to +50°C

**Storage Temperature**
-40° to +85°C

**OTHER**

**Label**
Use conventional label with the following information:
501-26527 (Current Rev.)
80 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




| 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:
**Premium 80 MHz-SC Citrine Crystal Oscillator**

| P/N: | Rev: | Date: | Drawn: | Ref: |
|---|---|---|---|---|
| **501-26527** | **A** | **05-29-13** | | 24825 ULN |

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