**OUTPUT**

**Frequency**

80 MHz

**Level**

+18 dBm ±2 dB into 50 ohms

**STABILITY**

**Aging**

$1 \times 10^{-6}$ per year

after 30 days operating, typical

**Phase Noise L(f), Static**

| | |
|---|---|
| 100 Hz | -135 dBc/Hz |
| 1 kHz | -162 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**

$\pm 5 \times 10^{-7}$, ±5 VDC

Negative slope

**CRYSTAL**

**Type**

80 MHz SC-Cut (low-g)

**Acceleration Sensitivity**

≤ $5 \times 10^{-10}$ /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:
501-26198 (Current Rev.)
Golden Citrine
80 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

| REV | DATE | REVISION RECORD | DWN | AUTH |
|---|---|---|---|---|
| - | 08-17-12 | Initial Release | BH | PC |
| | | | | |
| | | | | |
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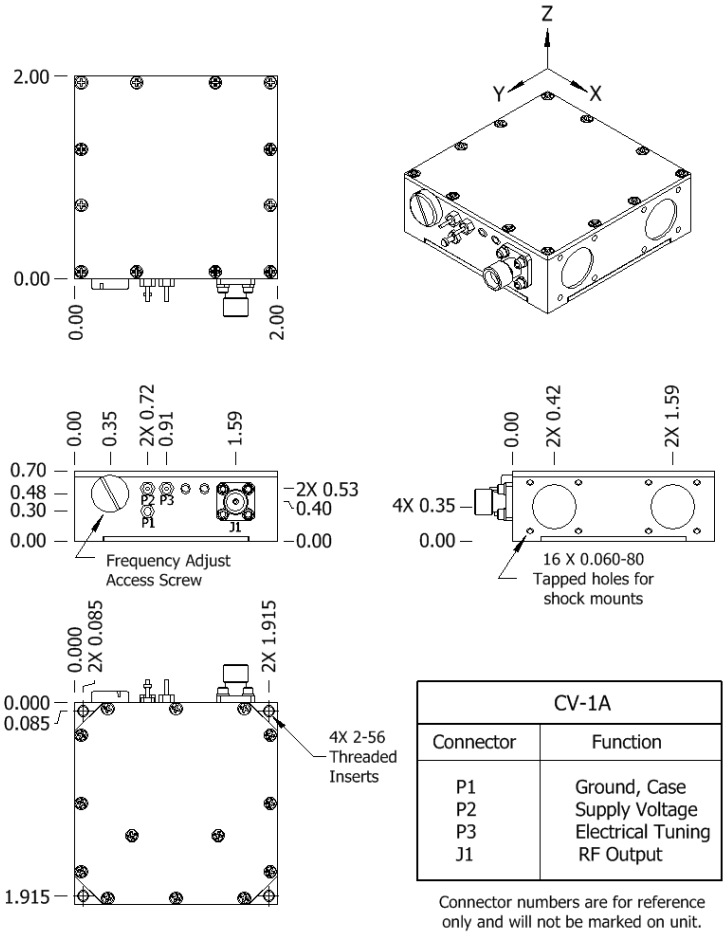


| CV-1A | |
|---|---|
| Connector | Function |
| P1 | Ground, Case |
| P2 | Supply Voltage |
| P3 | Electrical Tuning |
| J1 | RF Output |

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

**Wenzel Associates, Inc.**
Austin, Texas

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

| P/N: | Rev: | Date: | Drawn: | Ref: |
|---|---|---|---|---|
| **501-26198** | **-** | **08-17-12** | | 501-25900 |

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