

## OUTPUT

### Frequency

100 MHz

### Level

+13 dBm  $\pm 2$  dB into 50 ohms

## STABILITY

### Aging

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

after 30 days operating, typical

### Phase Noise L(f), Static

100 Hz -130 dBc/Hz

1 kHz -158 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

$\leq -30$  dBc

### Spurious

$\leq -90$  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

$\leq 6$  Watts for 5 minutes

### Total Power

$\leq 3$  Watts at +25°C

### Supply Voltage

+15 VDC  $\pm 5\%$

## ADJUSTMENT

### Mechanical Tuning

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

### Electrical Tuning

$\pm 5 \times 10^{-7}$ ,  $\pm 5$  VDC

Negative slope

## CRYSTAL

### Type

100 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:

501-24825 (Current Rev.)

100 MHz Citrine

+15 VDC

Serial # - Date Code

### Test Data

Output Level

Phase Noise, Static

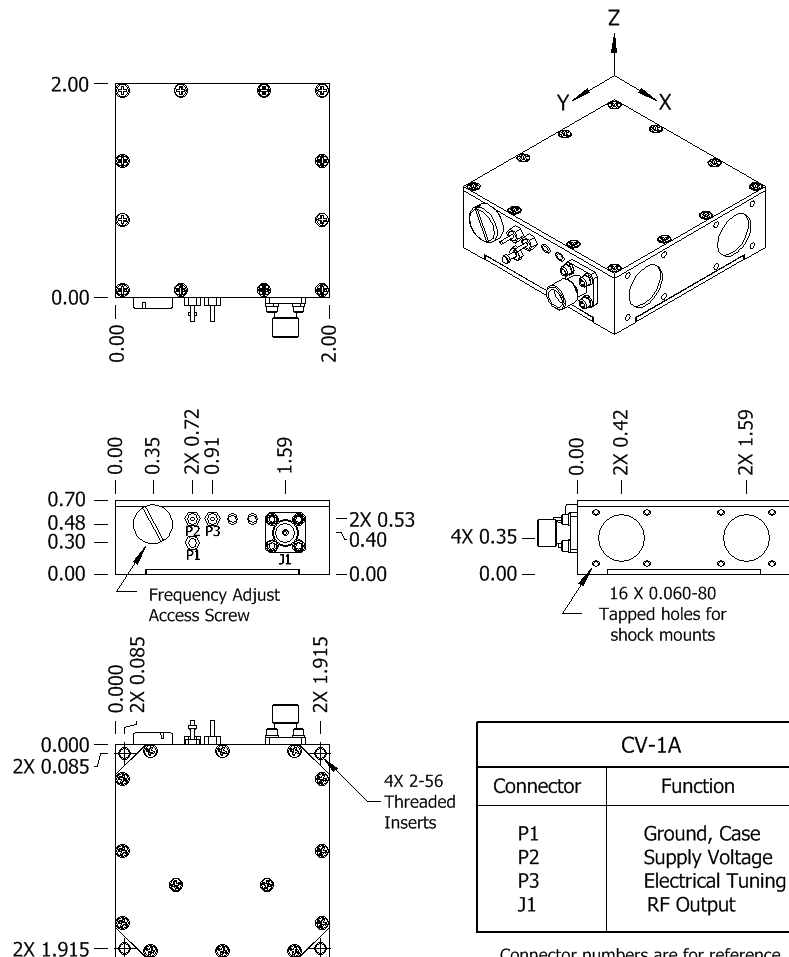
Temperature Stability

Harmonics, Spurious

Power – Warm-up and Total

Tuning – MT and ET

| REV | DATE     | REVISION RECORD | DWN | AUTH |
|-----|----------|-----------------|-----|------|
| -   | 08-03-11 | Initial Release | PAC | JR   |
|     |          |                 |     |      |
|     |          |                 |     |      |
|     |          |                 |     |      |
|     |          |                 |     |      |



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



**Wenzel Associates, Inc.**

Austin, Texas

|  |   |  |                       |                           |
|--|---|--|-----------------------|---------------------------|
| Title:<br><b>Premium 100 MHz-SC Citrine Crystal Oscillator</b> |   |  |                       |                           |
| P/N:<br><b>501-24825</b>                                       | Rev:<br><b>-</b>                            | Date:<br><b>08-03-11</b>                     | Drawn:                | Ref:<br>ULN               |
| Tolerances:<br>(except as noted)<br>Dimensions are in inches   | 0.XX Dec:<br><b><math>\pm 0.030</math>"</b> | 0.XXX Dec:<br><b><math>\pm 0.010</math>"</b> | FSCM:<br><b>62821</b> | Page <b>1</b> of <b>1</b> |