

## OUTPUT

### Frequency

125 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 -128 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

$\leq -30$  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)

### Mounting

Threaded inserts, # 2-56, 4 places  
Tapped holes on sides, 16 places  
(provisions for shock mounts)

## POWER REQUIREMENTS

### Warm-Up Power

$\leq 6$  Watts for 5 minutes

### Total Power

$\leq 3$  Watts at +25°C

### Supply Voltage

+12 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

125 MHz SC-Cut

### Acceleration Sensitivity

$\leq 5 \times 10^{-10}$  /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:

501-29568 (Current Rev.)

125 MHz Citrine

+12 VDC

Serial # - Date Code

### Test Data

Output Level

Phase Noise, Static

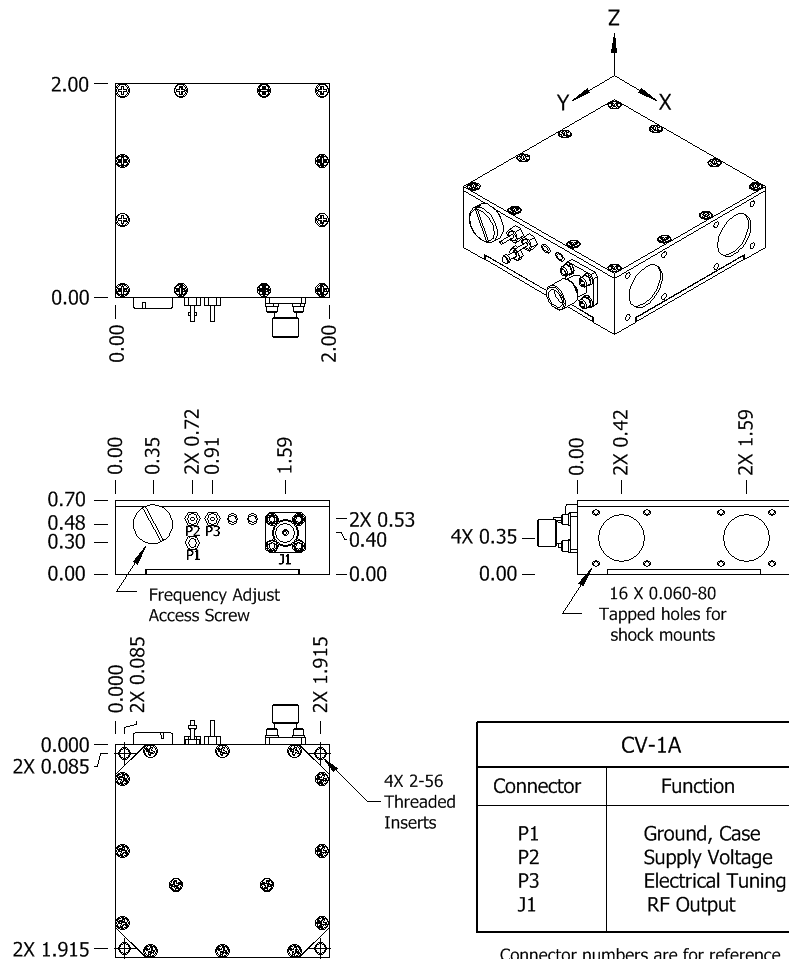
Temperature Stability

Harmonics, Spurious

Power – Warm-up and Total

Tuning – MT and ET

REV	DATE	REVISION RECORD	DWN	AUTH
-	11-18-15	Initial Release	Liz	



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 125 MHz-SC Citrine Crystal Oscillator**

P/N:

**501-29568**

Rev:

**-**

Date:

**11-18-15**

Drawn:

Ref:

ULN

Tolerances:  
(except as noted)  
Dimensions are in inches

0.XX Dec:

**$\pm 0.030$ "**

0.XXX Dec:

**$\pm 0.010$ "**

FSCM:

**62821**

Page **1** of **1**