

**OUTPUT****Frequency**

500 MHz

**Level**+13 dBm  $\pm 2$  dB into 50 ohms**STABILITY****Aging**

1 x 10<sup>-6</sup> first year  
 after 30 days operating, typical  
 5 x 10<sup>-7</sup> second year, typical  
 3 x 10<sup>-7</sup> per year thereafter, typical

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

100 Hz -115 dBc/Hz  
 1 kHz -142 dBc/Hz  
 10 kHz -159 dBc/Hz  
 100 kHz -160 dBc/Hz

**Temperature Stability**
 $\pm 5 \times 10^{-7}$ , 0° to +50°C (Ref +25°C)
**Harmonics**
 $\leq -25$  dBc
**Sub-Harmonics**
 $\leq -50$  dBc
**Non-Harmonic Spurious**
 $\leq -80$  dBc, excluding power supply line related spurs
**MECHANICAL****Dimensions**

2" x 2" x 1.3"

**Connectors**

SMA(f) and solder pins on one side

**Packaging**

Nickel-plated machined aluminum housing (CVP-1A)

**Mounting**
 Threaded inserts, # 2-56, 4 places  
 Tapped holes on sides, 16 places  
 (provisions for shock mounts)
**POWER REQUIREMENTS****Warm-Up Power**
 $\leq 8.5$  Watts for 5 minutes at +25°C
**Total Power**
 $\leq 5$  Watts at +25°C
**Supply Voltage**+15 VDC  $\pm 5\%$ **ADJUSTMENT****Mechanical Tuning**
 $\pm 4 \times 10^{-6}$ 
**Electrical Tuning**
 $\pm 2 \times 10^{-7}$  min,  $\pm 5$  VDC

Negative slope

**CRYSTAL****Type**

100 MHz SC-cut w/ x5 stage

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

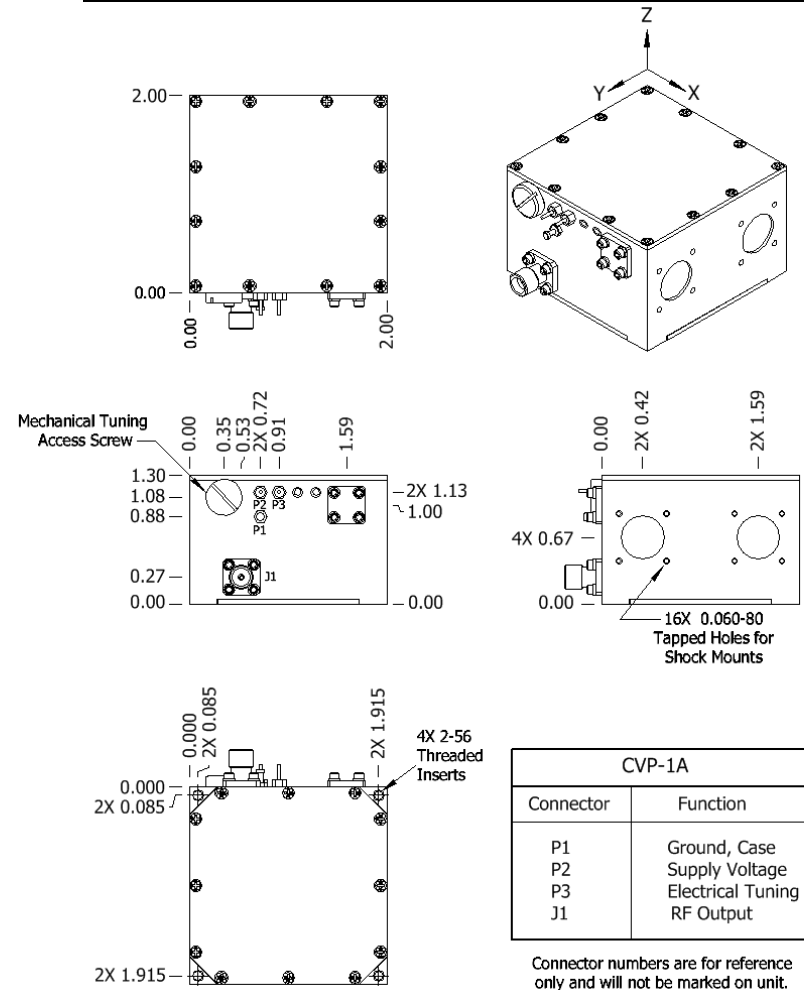
0° to +50°C

**Storage Temperature**

-40° to +85°C

**OTHER****Label**
 Use conventional label with the following information:  
 501-23792 (Current Rev.)  
 500 MHz Citrine  
 +15 VDC  
 Serial # - Date Code
**Test Data**
 Output Level  
 Phase Noise – Static  
 Temperature Stability  
 Harmonics, Subs, Spurious  
 Power - Warm-up and Total  
 Tuning – MT and ET

REV	DATE	REVISION RECORD	DWN	AUTH
-	09-28-11	Initial Release	PAC	JR
A	01-14-13	Added Environmental specs	PAC	

**Wenzel Associates, Inc.**

Austin, Texas

Title:

**Premium 500 MHz Citrine Plus Crystal Oscillator**

P/N:

**501-23792**

Rev:

**A**

Date:

**01-14-13**

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

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