

OUTPUT**Frequency**

500 MHz

Level

+13 dBm ±2 dB into 50 ohms

STABILITY**Aging**

1 x 10⁻⁶ first year
 after 30 days operating, typical
 5 x 10⁻⁷ second year, typical
 3 x 10⁻⁷ per year thereafter, typical

Phase Noise L(f), Static

100 Hz -111 dBc/Hz
 1 kHz -136 dBc/Hz
 10 kHz -149 dBc/Hz
 100 kHz -150 dBc/Hz

Temperature Stability±5 x 10⁻⁷, 0° to +50°C (Ref +25°C)**Harmonics**

≤ -25 dBc

Sub-Harmonics

≤ -50 dBc

Non-Harmonic Spurious

≤ -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**

≤ 7 Watts for 5 minutes at +25°C

Total Power

≤ 5 Watts at +25°C

Supply Voltage

+15 VDC ±5%

ADJUSTMENT**Mechanical Tuning**±4 x 10⁻⁶**Electrical Tuning**±2 x 10⁻⁷ min, ±5 VDC

Negative slope

CRYSTAL**Type**

100 MHz SC-cut w/ x5 stage

Acceleration Sensitivity≤ 5 x 10⁻¹⁰ /g per axis, typical**ENVIRONMENTAL****Operating Temperature**

0° to +50°C

Storage Temperature

-40° to +85°C

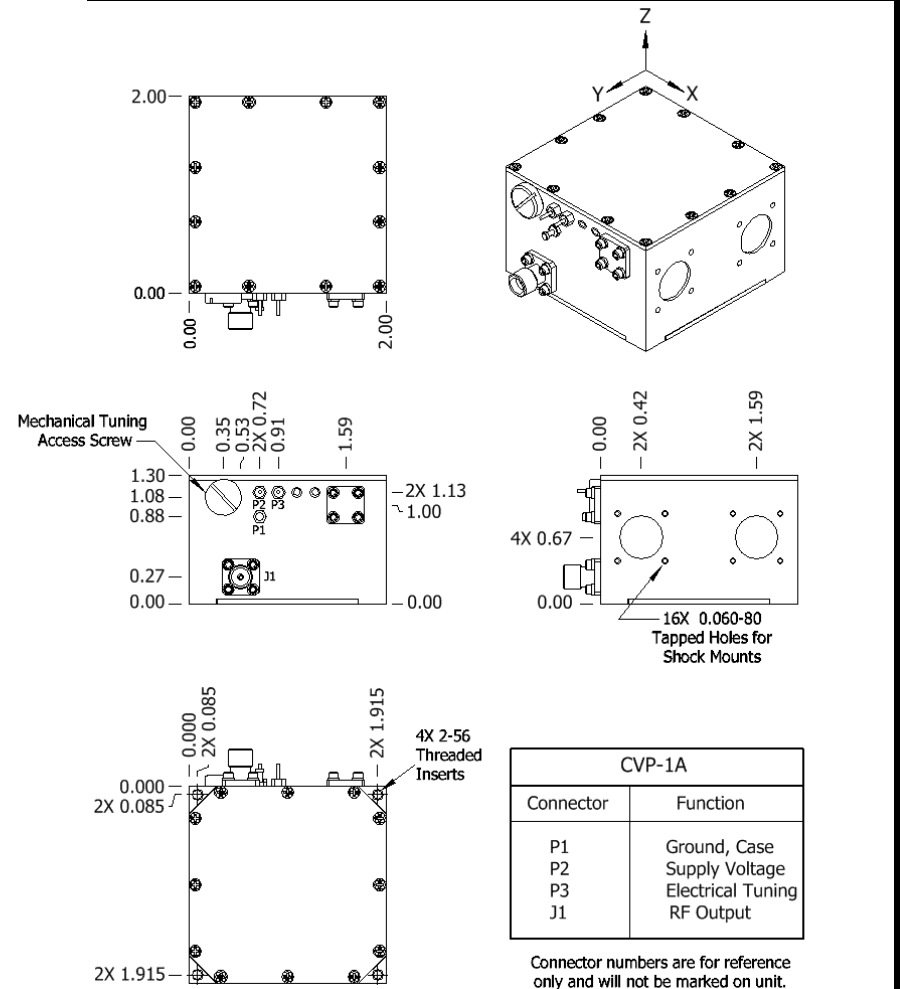
OTHER**Label**

Use conventional label with the
 following information:
 501-25015 (Current Rev.)
 500 MHz Citrine Plus
 +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:

Standard 500 MHz Citrine Plus Crystal Oscillator

P/N:

501-25015

Rev:

A

Date:

01-14-13

Drawn:

Ref:

SPR

Tolerances:
 (except as noted)
 Dimensions are in inches

0.XX Dec:

±0.030"

0.XXX Dec:

±0.010"

FSCM:

62821

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