

OUTPUT

Frequency

160 MHz

Level

+13 dBm ± 2 dB into 50 ohms

STABILITY

Aging

1×10^{-6} first year
after 30 days operating, typical
 5×10^{-7} second year, typical
 3×10^{-7} per year thereafter, typical

Phase Noise L(f), Static

100 Hz -125 dBc/Hz
1 kHz -153 dBc/Hz
10 kHz -167 dBc/Hz
100 kHz -168 dBc/Hz

Temperature Stability

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

≤ 4 Watts at +25°C

Supply Voltage

+15 VDC $\pm 5\%$

ADJUSTMENT

Mechanical Tuning

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

Electrical Tuning

$\pm 5 \times 10^{-7}$ min, ± 5 VDC

Negative slope

CRYSTAL

Type

80 MHz SC-cut w/ x2 stage

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

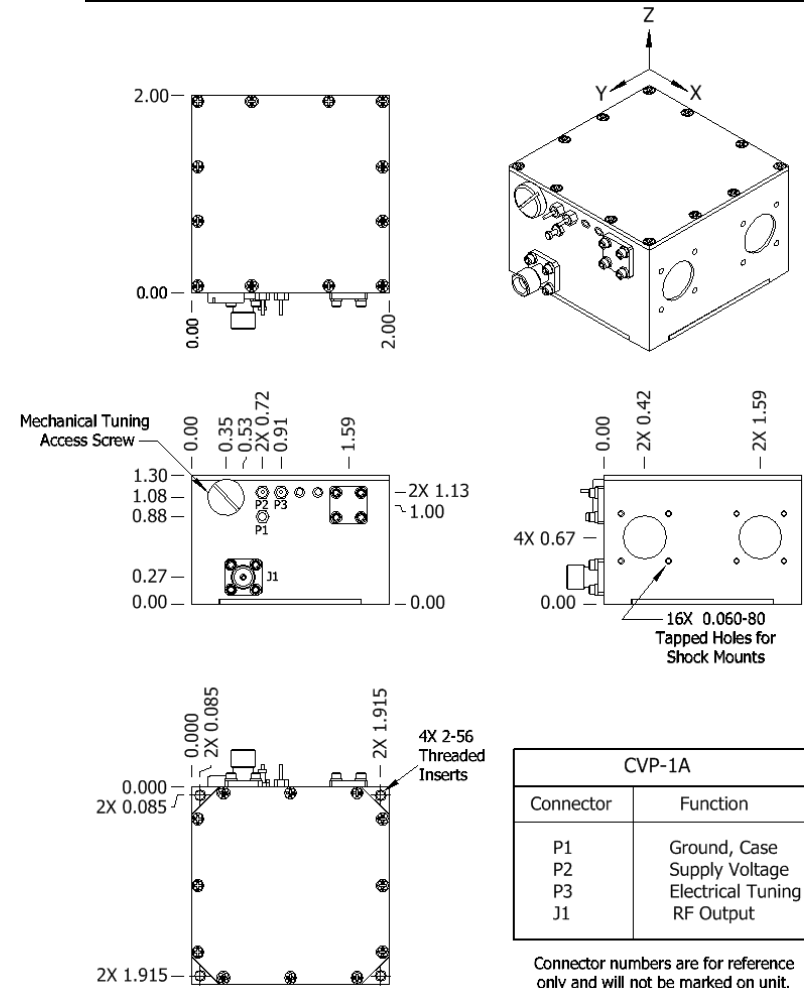
Label

Use conventional label with the
following information:
501-26954 (Current Rev.)
160 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
-	06-25-13	Initial Release	PAC	
A	01-07-14	Phase Noise	PAC	



Wenzel Associates, Inc.

Austin, Texas

Title:

Premium 160 MHz Citrine Plus Crystal Oscillator

P/N:

501-26954

Rev:

A

Date:

01-07-14

Drawn:

Ref:

ULN

Tolerances:
(except as noted)
Dimensions are in inches

0.XX Dec:
 ± 0.030 "

0.XXX Dec:
 ± 0.010 "

FSCM:
62821

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