

OUTPUT

Frequency
250 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 -116 dBc/Hz
1 kHz -144 dBc/Hz
10 kHz -165 dBc/Hz
100 kHz -166 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**

≤ 8 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

±5 x 10⁻⁷ min, ±5 VDC

Negative slope

CRYSTAL**Type**

125 MHz SC-cut w/ x2 stage

Acceleration Sensitivity

≤ 5 x 10⁻¹⁰ /g per axis, typical

ENVIRONMENTAL**Operating Temperature**

0° to +50°C

Storage Temperature

-40° to +85°C

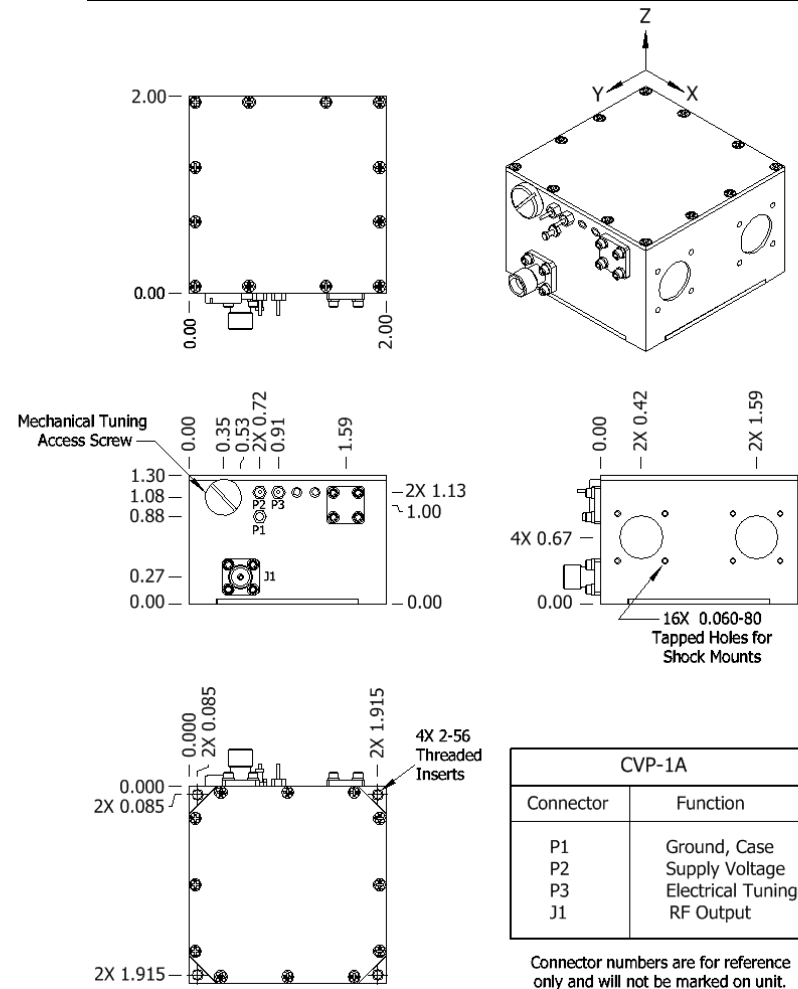
OTHER**Label**

Use conventional label with the
following information:
501-26846 (Current Rev.)
250 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
-	05-21-13	Initial Release	PAC	



CVP-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 250 MHz Citrine Plus Crystal Oscillator

P/N: 501-26846	Rev: -	Date: 05-21-13	Drawn:	Ref: ULN
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Tolerances: (except as noted) Dimensions are in inches	0.XX Dec: ±0.030"	0.XXX Dec: ±0.010"	FSCM: 62821	Page 1 of 1
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