

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

≤ 8.5 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

≤ 3 x 10⁻¹⁰ /g per axis, typical

ENVIRONMENTAL

Operating Temperature

0° to +50°C

Storage Temperature

-40° to +85°C

OTHER

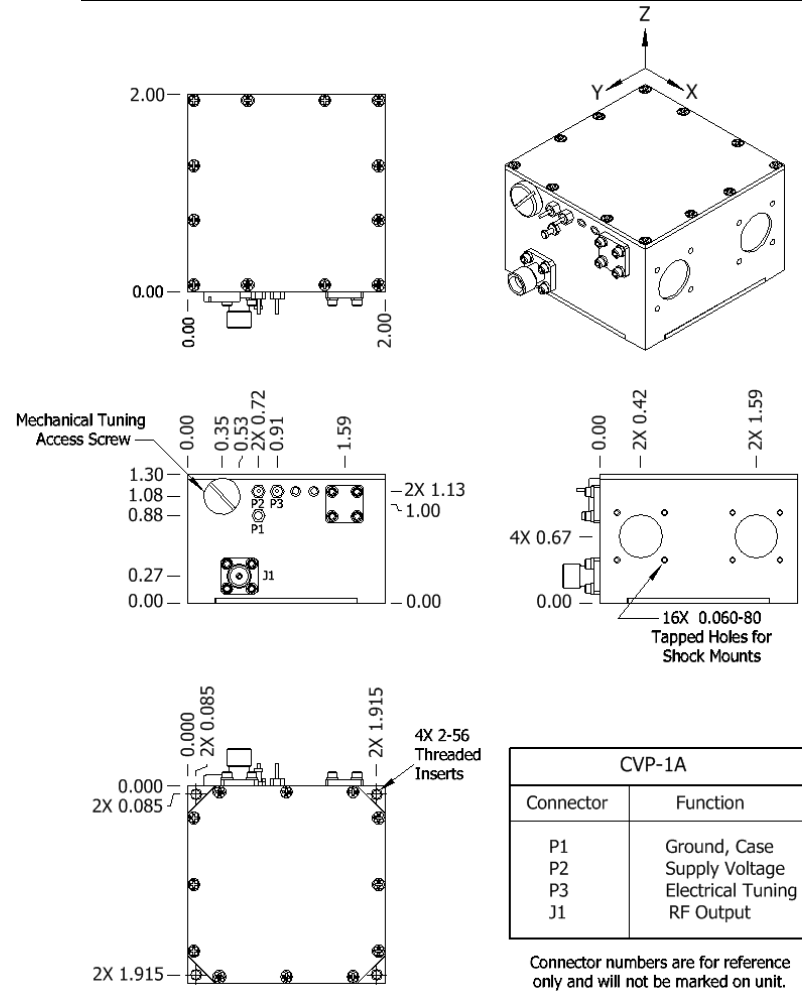
Label

Use conventional label with the following information:
501-23792 (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: ±0.030"	0.XXX Dec: ±0.010"	FSCM: 62821

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