

OUTPUT

Frequency

100 MHz (Dual Output)

Level

+10 dBm ± 2 dB into 50 ohms

STABILITY

Aging

1×10^{-6} per year

after 30 days operating, typical

Phase Noise L(f), Static

100 Hz -130 dBc/Hz

1 kHz -158 dBc/Hz

10 kHz -176 dBc/Hz

100 kHz -176 dBc/Hz

Temperature Stability

$\pm 2 \times 10^{-7}$, 0° to +50°C (Ref +25°C)

Harmonics

≤ -30 dBc

Spurious

≤ -90 dBc, excluding power

supply line related spurs

Port-to-Port Isolation

≥ 30 dB

MECHANICAL

Dimensions

2 x 2 x 0.7"

Connectors

SMA(f) and solder pins on side

Packaging

Nickel-plated machined
aluminum case (CV-2A)

POWER REQUIREMENTS

Warm-Up Power

≤ 7 Watts for 5 minutes

Total Power

≤ 4 Watts at +25°C

Supply Voltage

+15 VDC $\pm 5\%$

ADJUSTMENT

Mechanical Tuning

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

Electrical Tuning

$\pm 5 \times 10^{-7}$, ± 5 VDC

Negative slope

CRYSTAL

Type

100 MHz SC-Cut (low-g)

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:

501-26866 (Current Rev.)

100 MHz Citrine

+15 VDC

Serial # - Date Code

Test Data

Output Level

Phase Noise, Static

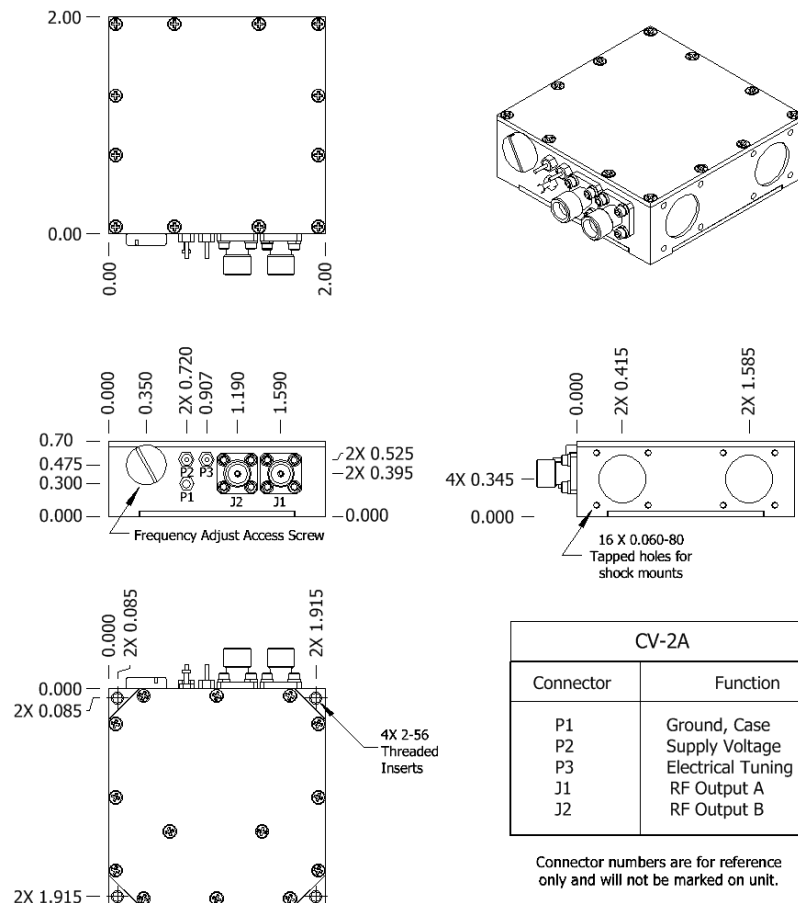
Temperature Stability

Harmonics, Spurious

Power – Warm-up and Total

Tuning – MT and ET

REV	DATE	REVISION RECORD	DWN	AUTH
-	05-29-13	Initial Release	PAC	



Wenzel Associates, Inc.

Austin, Texas

Title:

Premium Dual Output 100 MHz-SC Citrine Crystal Oscillator

P/N: 501-26866	Rev: -	Date: 05-29-13	Drawn:	Ref: 24825 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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