

OUTPUT A (J2)

Frequency

100 MHz

Level

+13 dBm ± 2 dB into 50 ohms

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

OUTPUT B (J1)

Frequency

500 MHz

Level

+13 dBm ± 2 dB into 50 ohms

Phase Noise L(f), Static

100 Hz -114 dBc/Hz

1 kHz -142 dBc/Hz

10 kHz -159 dBc/Hz

100 kHz -160 dBc/Hz

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

Temperature Stability

$\pm 5 \times 10^{-7}$, 0° to $+50^\circ\text{C}$ (Ref $+25^\circ\text{C}$)

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-2A)

Mounting

Threaded inserts, # 2-56, 4 places

Tapped holes on sides, 16 places
(provisions for shock mounts)

POWER REQUIREMENTS

Warm-Up Power

≤ 9 Watts for 5 minutes at $+25^\circ\text{C}$

Total Power

≤ 6 Watts at $+25^\circ\text{C}$

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

100 MHz SC-cut (x5)

OTHER

Label

Use conventional label with the following information:

501-25998 (Current Rev.)

100/500 MHz Citrine

+15 VDC

Serial # - Date Code

(Mark connectors with function)

Test Data

Output Level

Phase Noise – Static

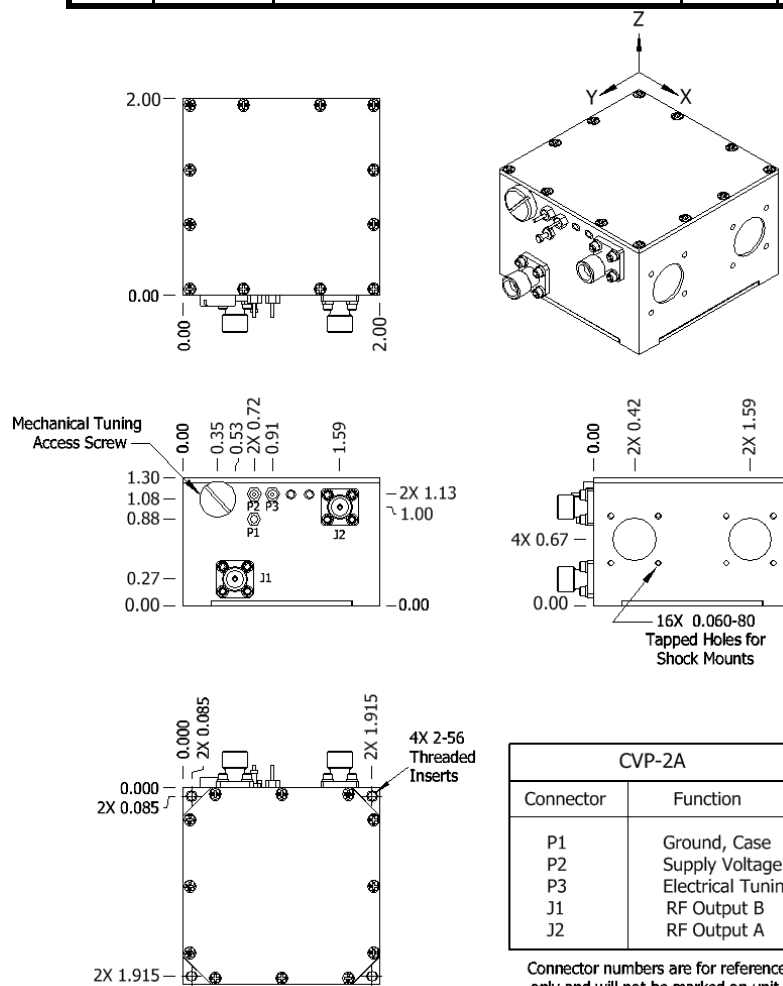
Temperature Stability

Harmonics, Subs, Spurious

Power - Warm-up and Total

Tuning – MT and ET

REV	DATE	REVISION RECORD	DWN	AUTH
-	06-11-12	Initial Release	PAC	



Wenzel Associates, Inc.

Austin, Texas

Title:

Premium 100/500 MHz Citrine Plus Crystal Oscillator

P/N:

501-25998

Rev:

-

Date:

06-11-12

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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