

**OUTPUT****Frequency**

100 MHz (Dual Output)

**Level**

+10 dBm ±2 dB into 50 ohms

**STABILITY****Aging**1 x 10<sup>-6</sup> 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**±2 x 10<sup>-7</sup>, 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 ±5%

**ADJUSTMENT****Mechanical Tuning**±4 x 10<sup>-6</sup>**Electrical Tuning**±5 x 10<sup>-7</sup>, ±5 VDC

Negative slope

**CRYSTAL****Type**

100 MHz SC-Cut (low-g)

**Acceleration Sensitivity**≤ 3 x 10<sup>-10</sup> /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

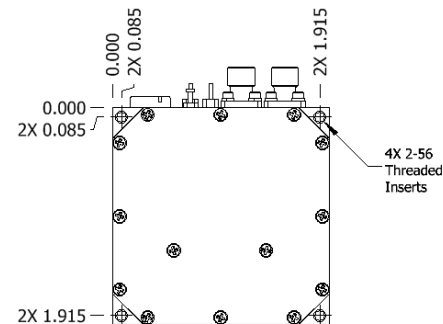
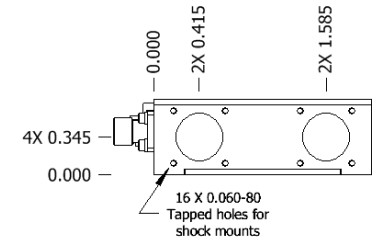
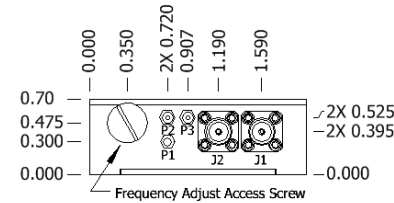
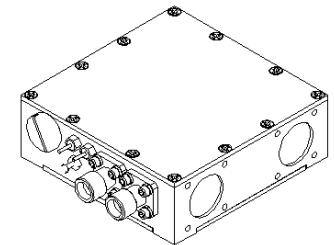
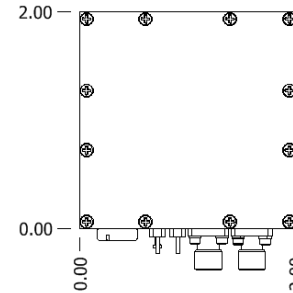
Temperature Stability

Harmonics, Spurious

Power – Warm-up and Total

Tuning – MT and ET

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



CV-2A	
Connector	Function
P1	Ground, Case
P2	Supply Voltage
P3	Electrical Tuning
J1	RF Output A
J2	RF Output B

Connector numbers are for reference only and will not be marked on unit.

**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  
ULNTolerances:  
(except as noted)  
Dimensions are in inches0.XX Dec:  
**±0.030"**0.XXX Dec:  
**±0.010"**FSCM:  
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