

OUTPUT

Frequency

100 MHz

Level

+18 dBm ± 2 dB into 50 ohms

STABILITY

Aging

1×10^{-6} per year
after 30 days operating, typical

Phase Noise L(f)

100 Hz -138 dBc/Hz
1 kHz -163 dBc/Hz
10 kHz -183 dBc/Hz
100 kHz -188 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

MECHANICAL

Dimensions

2 x 2 x 0.7"

Connectors

SMA(f) and solder pins on side

Packaging

Nickel-plated machined
aluminum case – CV-1A

POWER REQUIREMENTS

Warm-Up Power

≤ 8 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

$\pm 2 \times 10^{-7}$, ± 5 VDC
Negative slope

CRYSTAL

Type

100 MHz SC-Cut (low-g)

Acceleration Sensitivity

$< 5 \times 10^{-10}$ /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:

501-31631 (Current Rev.)

Golden Citrine

100 MHz

+15 VDC

Serial # - Date Code

RoHS

This part is RoHS Compliant

Test Data

Output Level

Phase Noise, Static

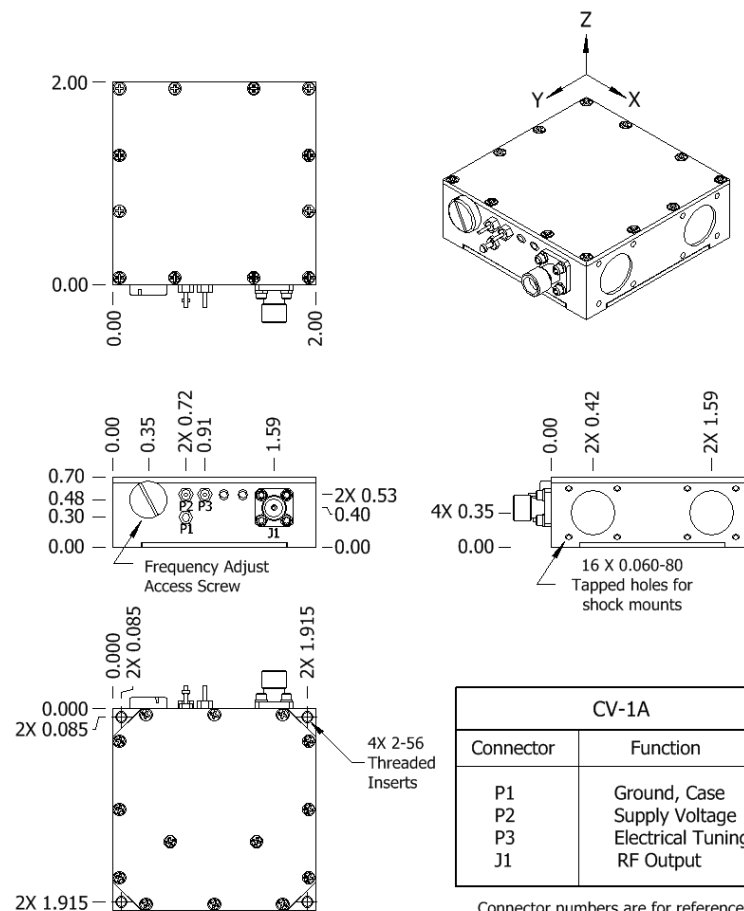
Temperature Stability

Harmonics, Spurious

Power – Warm-up and Total

Tuning – MT and ET

EV	DATE	REVISION RECORD	DWN	AUTH
-	04-18-18	Initial Release	BH	



CV-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:

100 MHz-SC Golden Citrine Crystal Osc. (RoHS)

P/N:

501-31631

Rev:

-

Date:

04-18-18

Drawn:

Ref:

501-25900

Tolerances:
(except as noted)
Dimensions are in inches

0.XX Dec:

± 0.030 "

0.XXX Dec:

± 0.010 "

FSCM:

62821

Page 1 of 1