

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

$\pm 5 \times 10^{-7}$, -40° to +70°C (Ref +25°C)

Harmonics

≤ -30 dBc

Spurious

≤ -90 dBc, excluding power
supply line related spurs

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

≤ 6 Watts for 5 minutes

Total Power

≤ 3 Watts at +25°C

Supply Voltage

+15 VDC $\pm 5\%$

ADJUSTMENT

Mechanical Tuning

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

Electrical Tuning

$\pm 2 \times 10^{-7}$, 0 to +10VDC

Negative slope

CRYSTAL

Type

100 MHz SC-Cut

ENVIRONMENTAL

Operating Temperature

-40° to +70°C

Storage Temperature

-40° to +85°C

OTHER

Label

Use conventional label with the
following information:

501-25247 (Current Rev.)

100 MHz Dual Out. Citrine

+15 VDC

Serial # - Date Code

Test Data

Output Level

Phase Noise, Static

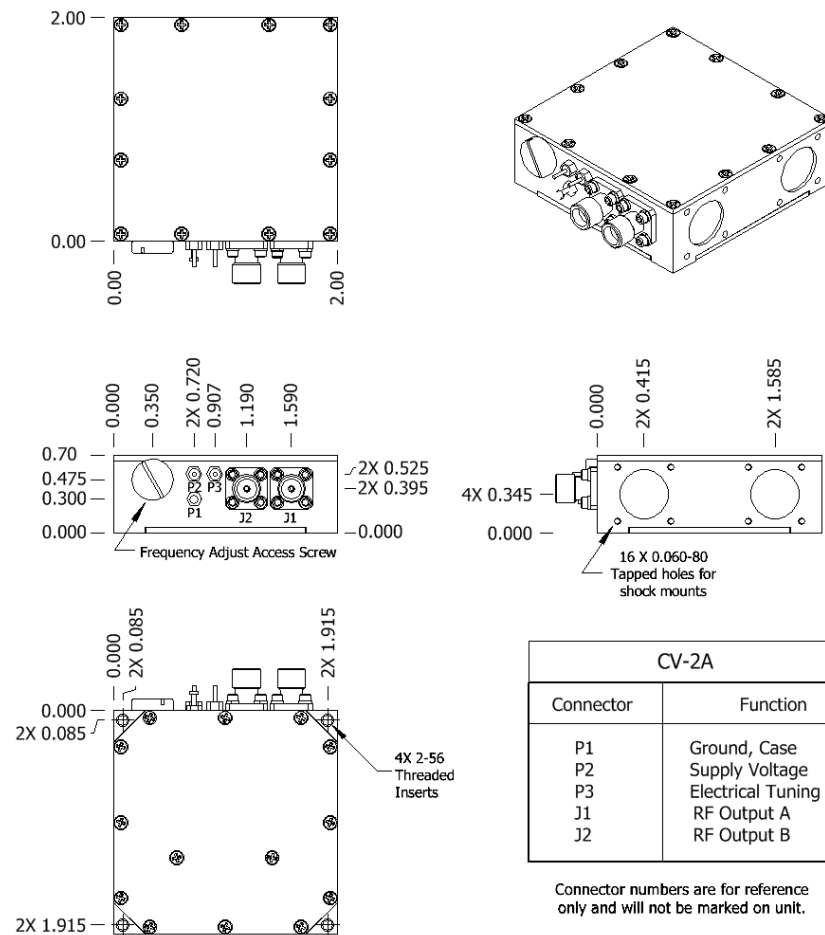
Temperature Stability

Harmonics, Spurious

Power – Warm-up and Total

Tuning – MT and ET

| REV | DATE | REVISION RECORD | DWN | AUTH |
|-----|----------|-------------------------|-----|------|
| - | 12-06-11 | Initial Release | VG | JR |
| A | 01-19-12 | Revised temp. stability | VG | |
| B | 03-29-16 | Warm up and Total Power | BH | MG |
| | | | | |
| | | | | |
| | | | | |



Wenzel Associates, Inc.

Austin, Texas

Title:

100 MHz-SC Dual Output Citrine Crystal Oscillator

P/N:

501-25247

Rev:

B

Date:

03-29-16

Drawn:

Ref:

501-24069

Tolerances:
(except as noted)
Dimensions are in inches

0.XX Dec:

± 0.030 "

0.XXX Dec:

± 0.010 "

FSCM:

62821

Page 1 of 1