

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** ≤ 5 Watts for 5 minutes**Total Power** ≤ 2.5 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

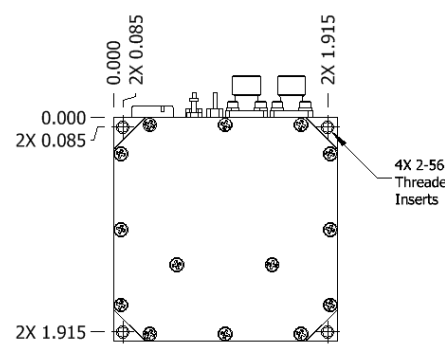
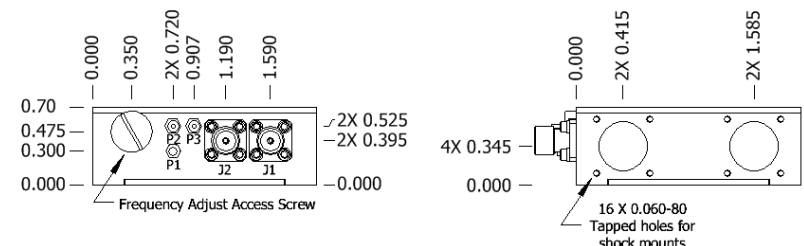
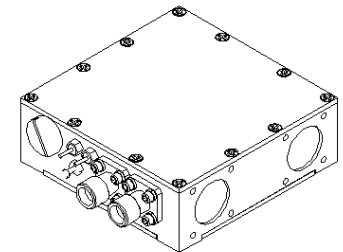
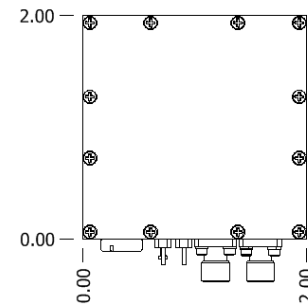
OTHER**Label**

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	



CV-2A	
Connector	Function
P1	Ground, Case Supply Voltage
P2	
P3	
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: 100 MHz-SC Dual Output Citrine Crystal Oscillator				
P/N: 501-25247	Rev: A	Date: 01-19-12	Drawn:	Ref: 501-24069
Tolerances: (except as noted) Dimensions are in inches		0.XX Dec: ± 0.030"	0.XXX Dec: ± 0.010"	FSCM: 62821
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