OUTPUT

Frequency
100 MHz

Level
+13 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	-125 dBc/Hz
1 kHz	-155 dBc/Hz
10 kHz	-176 dBc/Hz
100 kHz	-176 dBc/Hz

Temperature Stability
$\pm 5 \times 10^{-7}$, 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-1)

POWER REQUIREMENTS

Warm-Up Power
≤ 6 Watts for 5 minutes

Total Power
≤ 3 Watts at +25°C

Supply Voltage
+15 VDC ±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
$\leq 5 \times 10^{-10}$ /g per axis, typical

ENVIRONMENTAL

Operating Temperature
0° to +50°C

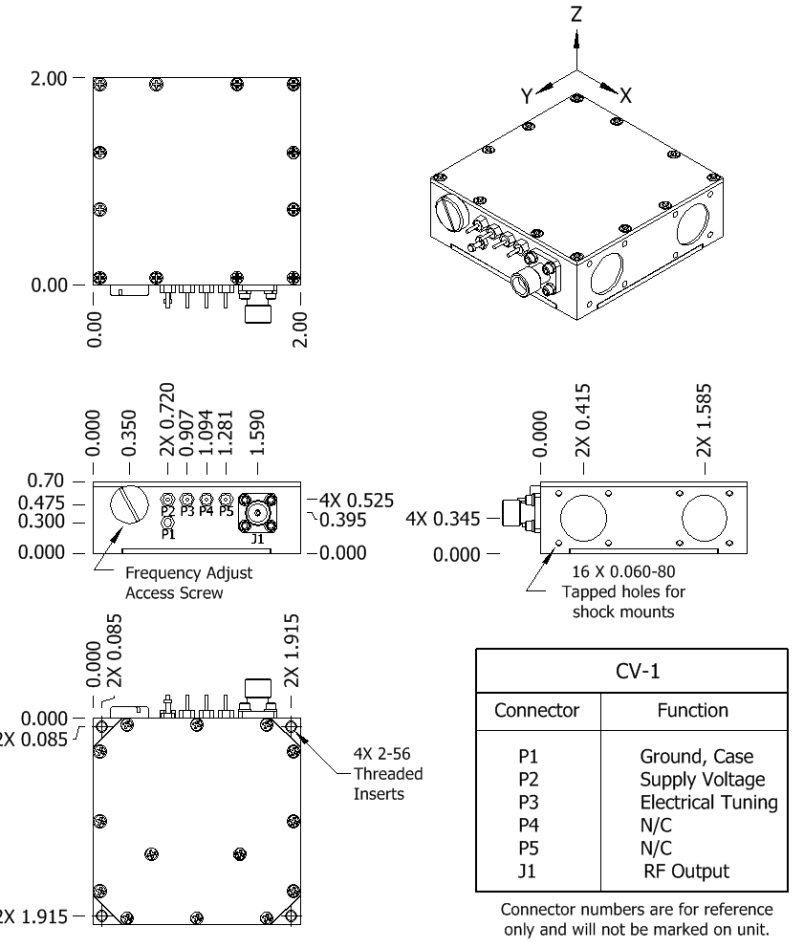
Storage Temperature
-40° to +85°C

OTHER

Label
Use conventional label with the following information:
501-25056 (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

EV	DATE	REVISION RECORD	DWN	AUTH
-	10-10-11	Initial Release	PAC	



CV-1	
Connector	Function
P1	Ground, Case
P2	Supply Voltage
P3	Electrical Tuning
P4	N/C
P5	N/C
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 Citrine Crystal Oscillator

P/N:	Rev:	Date:	Drawn:	Ref:
501-25056	**-**	**10-10-11**		ULN

Tolerances: (except as noted) Dimensions are in inches	0.XX Dec:	0.XXX Dec:	FSCM:	Page 1 of 1
	±0.030”	±0.010”	62821	