OUTPUT

Frequency
10 MHz, both outputs

Level
+10 dBm ±2 dB into 50 ohms, both outputs

STABILITY

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

Phase Noise L(f), Static

10 Hz	-130 dBc/Hz
100 Hz	-155 dBc/Hz
1 kHz	-172 dBc/Hz
10 kHz	-174 dBc/Hz

Phase Noise L(f), Dynamic, typical

10 Hz	-90 dBc/Hz
50 Hz	-96 dBc/Hz
100 Hz	-122 dBc/Hz
300 Hz	-142 dBc/Hz
1 kHz	-165 dBc/Hz
2 kHz	-170 dBc/Hz

Temperature Stability
$\pm 2 \times 10^{-8}$, 0° to +50°C (Ref +25°C)

Harmonics
≤ -30 dBc

Spurious
≤ -90 dBc, excluding power supply line related spurs

MECHANICAL

Dimensions
3.05" x 3.25" x 1.75"

Connectors
SMA(f) and solder pins on side

Packaging
Nickel-plated machined aluminum case – (CHPI-2)

POWER REQUIREMENTS

Warm-Up Power
≤ 9 Watts for 5 minutes

Total Power
≤ 6 Watts at +25°C

Supply Voltage
+15 VDC ±5%

ADJUSTMENT

Mechanical Tuning
$\pm 1 \times 10^{-6}$

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

CRYSTAL

Type
10 MHz SC-cut (low-g)

Acceleration Sensitivity
$\leq 3 \times 10^{-10}$ /g per axis, typical

ENVIRONMENTAL

Operating Temperature
0° to +50°C

Storage Temperature
-40° to +85°C

Vibration Level
10 Hz to 2 kHz 0.01 g^2/Hz

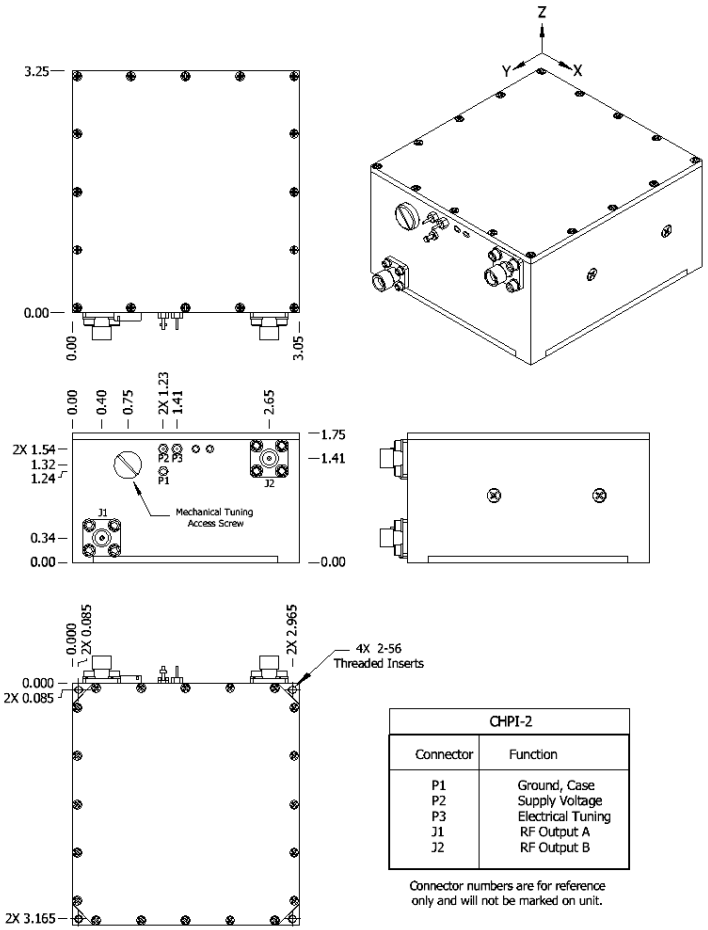
Resonance
(Internal Mount Natural Frequency)
~30 Hz, typical

OTHER

Label
Use conventional label with the following information:
501-31547 (Current Rev.)
10 MHz Dual Citrine
+15 VDC
Serial # - Date Code

Test Data
Output Level
Phase Noise, Static and Dynami
Temperature Stability
Harmonics, Spurious
Power – Warm-up and Total
Tuning – MT and ET

REV	DATE	REVISION RECORD	DWN	AUTH
-	03-20-18	Initial Release	BH	MG



CHPI-2	
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:

10 MHz-SC Dual-Output Citrine Vibration Isolated Crystal Oscillator

P/N:	Rev:	Date:	Drawn:	Ref:
501-31547	-	03-20-18		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	