OUTPUT

Frequency

10 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), dBc/Hz, typical

	Static	Dynamic (each axis)
10 Hz	-123	-87
30 Hz	---	-95
100 Hz	-148	-113
300 Hz	---	-136
1 kHz	-158	-155
2 kHz	---	-158
10 kHz	-158	---
100 kHz	-158	---

Temperature Stability

$\pm 5 \times 10^{-8}$, 0° to +50°C (Ref +25°C)

Harmonics

≤ -30 dBc

Sub-Harmonics

≤ -50 dBc

Spurious

≤ -80 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-1)

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

Screened to 1×10^{-10} /g per axis, typical (each axis)

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

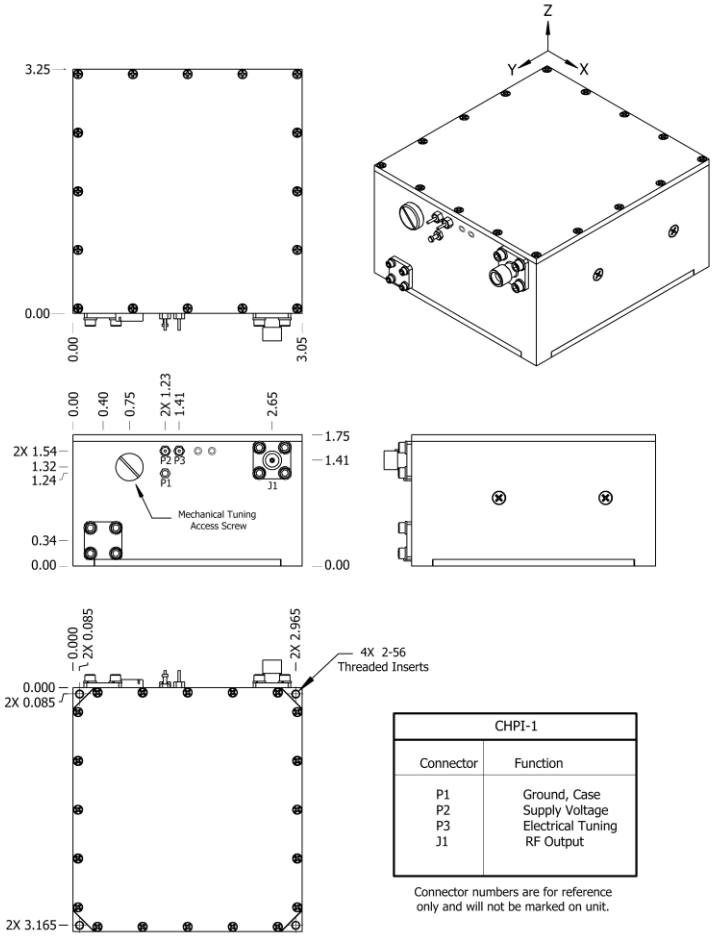
Label

Use conventional label with the following information:
501-28036 (Current Rev.)
10 MHz Citrine Plus
+15 VDC
Serial # - Date Code

Test Data

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

REV	DATE	REVISION RECORD	DWN	AUTH
-	04-24-14	Initial Release	Liz	
A	02-01-18	Updated drawing	PAC	



CHPI-1	
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:

Standard 10 MHz-SC Citrine Plus Vibration Isolated Crystal Oscillator

P/N:	Rev:	Date:	Drawn:	Ref:
501-28036	**A**	**02-01-18**		STR/SF

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