

OUTPUT

Frequency

20 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	-128	-87
50 Hz	---	-95
100 Hz	-153	-113
300 Hz	---	-136
1 kHz	-165	-157
2 kHz	---	-165
10 kHz	-167	---
100 kHz	-168	---

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 $\pm 5\%$

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), (x2)

Acceleration Sensitivity

Screened to $\leq 3 \times 10^{-10}$ /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 $0.01 \text{ g}^2/\text{Hz}$

Resonance

(Internal Mount Natural Frequency)

≤ 30 Hz, typical

OTHER

Label

Use conventional label with the following information:

501-25560 (Current Rev.)

20 MHz Citrine Plus

+15 VDC

Serial # - Date Code

Test Data

Output Level

Phase Noise, Static and Dynamic

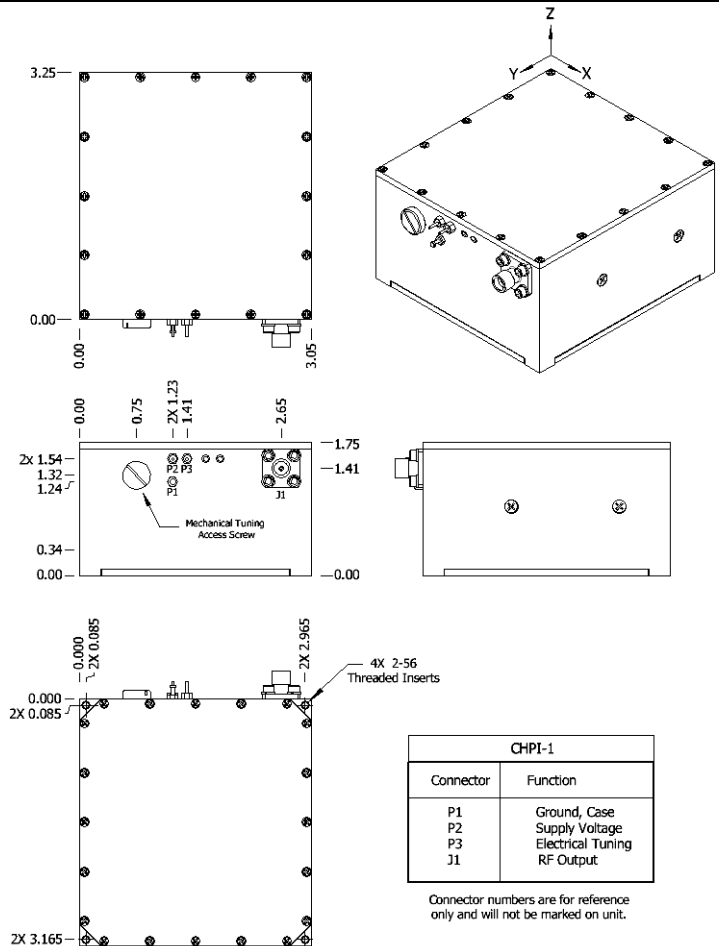
Temperature Stability

Harmonics, Spurious

Power – Warm-up and Total

Tuning – MT and ET

REV	DATE	REVISION RECORD	DWN	AUTH
-	02-13-12	Initial Release	PAC	



Wenzel Associates, Inc.

Austin, Texas

Title:

Premium 20 MHz-SC Citrine Plus Vibration Isolated Crystal Oscillator

P/N: 501-25560	Rev: -	Date: 02-13-12	Drawn:	Ref: ULN
Tolerances: (except as noted) Dimensions are in inches	0.XX Dec: ± 0.030"	0.XXX Dec: ± 0.010"	FSCM: 62821	Page 1 of 1