

OUTPUT

Frequency

20 MHz

Level

+13 dBm ± 2 dB into 50 ohms

STABILITY

Aging

5×10^{-10} per day

after 30 days operating, typical

Phase Noise L(f), Static

10 Hz -123 dBc/Hz

100 Hz -148 dBc/Hz

1 kHz -158 dBc/Hz

10 kHz -158 dBc/Hz

100 kHz -158 dBc/Hz

Temperature Stability

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

Harmonics

≤ -30 dBc

Sub-Harmonics

≤ -50 dBc

Non-Harmonic Spurious

≤ -80 dBc, excluding power

supply line related spurs

MECHANICAL

Dimensions

2.25" x 2.25" x 1.3"

Connectors

SMA(f) and solder pins on one side

Packaging

Nickel-plated machined
aluminum housing (CHP-1A)

Mounting

Threaded inserts, # 2-56, 4 places

Tapped holes on sides, 16 places
(provisions for shock mounts)

POWER REQUIREMENTS

Warm-Up Power

≤ 9 Watts for 5 minutes at +25°C

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 (x2)

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:

501-25557 (Current Rev.)

20 MHz Citrine Plus

+15 VDC

Serial # - Date Code

Test Data

Output Level

Phase Noise – Static

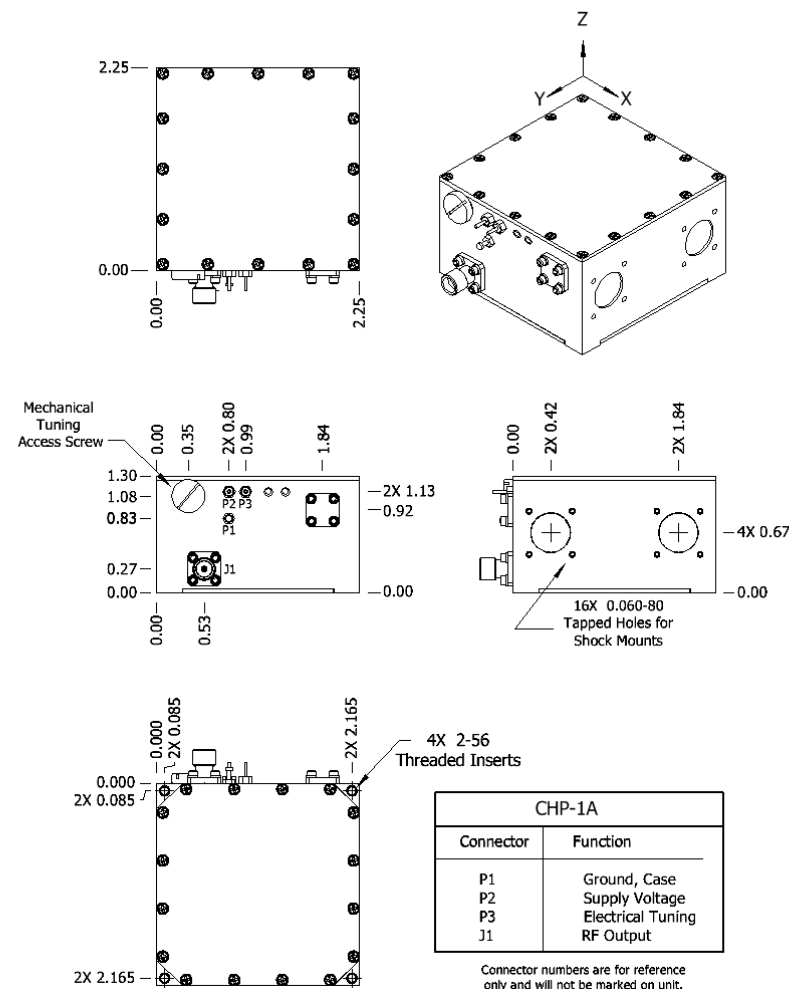
Temperature Stability

Harmonics, Subs, Spurious

Power - Warm-up and Total

Tuning – MT and ET

REV	DATE	REVISION RECORD	DWN	AUTH
-	02-10-12	Initial Release	PAC	



Wenzel Associates, Inc.

Austin, Texas

Title:

Standard 20 MHz Citrine Plus Crystal Oscillator

P/N:

501-25557

Rev:

-

Date:

02-10-12

Drawn:

Ref:

STR

Tolerances:
(except as noted)
Dimensions are in inches

0.XX Dec:

± 0.030 "

0.XXX Dec:

± 0.010 "

FSCM:

62821

Page 1 of 1