

OUTPUT

Frequency

10 MHz

Level

+13 dBm ±2 dB into 50 ohms

STABILITY

Aging

5 x 10⁻¹⁰ per day
after 30 days operating, typical

Phase Noise L(f), Static

10 Hz -135 dBc/Hz
100 Hz -160 dBc/Hz
1 kHz -172 dBc/Hz
10 kHz -174 dBc/Hz

Temperature Stability

±2 x 10⁻⁸, 0° to +50°C (Ref +25°C)

Harmonics

≤ -30 dBc

Spurious

≤ -90 dBc, excluding power
supply line related spurs

MECHANICAL

Dimensions

2.25 x 2.25 x 0.8"

Connectors

SMA(f) and solder pins on side

Packaging

Nickel-plated machined
aluminum case (CH-1A)

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

±1 x 10⁻⁶

Electrical Tuning

±2 x 10⁻⁷ min, ±5 VDC
Negative slope

CRYSTAL

Type

10 MHz SC-cut (Special Low-G)

Acceleration Sensitivity

≤ 5 x 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:

501-23750 (Current Rev.)

10 MHz Citrine

+15 VDC

Serial # - Date Code

Test Data

Output Level

Phase Noise, Static

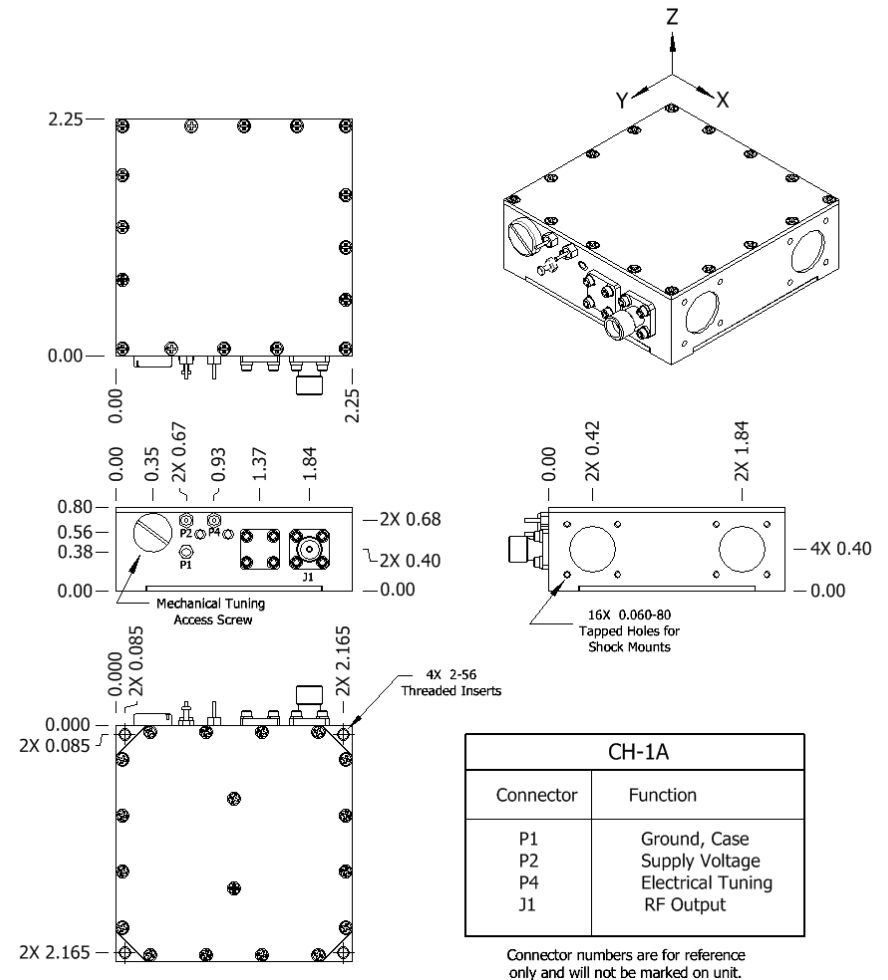
Temperature Stability

Harmonics, Spurious

Power – Warm-up and Total

Tuning – MT and ET

| REV | DATE | REVISION RECORD | DWN | AUTH |
|-----|----------|---------------------|-----|------|
| - | 03-09-11 | Initial Release | PAC | |
| A | 04-20-11 | Output Level; Power | PAC | |
| B | 06-01-11 | Updated Drawing | PAC | |
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Wenzel Associates, Inc.
Austin, Texas

Title: **Premium 10 MHz-SC Citrine Crystal Oscillator**

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|--|-----------------------------|------------------------------|-----------------------|-------------|
| P/N: 501-23750 | Rev: B | Date: 06-01-11 | 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 |