

**OUTPUT**

**Frequency**

10 MHz

**Level**

+13 dBm ±2 dB into 50 ohms

**STABILITY**

**Aging**

5 x 10<sup>-10</sup> per day  
after 30 days operating, typical

**Phase Noise L(f), Static**

10 Hz -130 dBc/Hz  
100 Hz -155 dBc/Hz  
1 kHz -165 dBc/Hz  
10 kHz -165 dBc/Hz

**Phase Noise L(f), Dynamic, typical**

10 Hz -92 dBc/Hz  
50 Hz -99 dBc/Hz  
100 Hz -119 dBc/Hz  
300 Hz -142 dBc/Hz  
1 kHz -162 dBc/Hz  
2 kHz -163 dBc/Hz

**Temperature Stability**

±5 x 10<sup>-8</sup>, 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 1.25"

**Connectors**

SMA(f) and solder pins on side

**Packaging**

Nickel-plated machined aluminum case (CHI-1)

**POWER REQUIREMENTS**

**Warm-Up Power**

≤ 6.5 Watts for 5 minutes

**Total Power**

≤ 4 Watts at +25°C

**Supply Voltage**

+15 VDC ±5%

**ADJUSTMENT**

**Mechanical Tuning**

±1 x 10<sup>-6</sup>

**Electrical Tuning**

±2 x 10<sup>-7</sup> min, ±5 VDC  
Negative slope

**CRYSTAL**

**Type**

10 MHz SC-cut (low-g)

**Acceleration Sensitivity**

≤ 3 x 10<sup>-10</sup> /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<sup>2</sup>/Hz

**Resonance**

(Internal Mount Natural Frequency)

~50 Hz, goal

**OTHER**

**Label**

Use conventional label with the following information:

501-24973 (Current Rev.)

10 MHz Citrine

+15 VDC

Serial # - Date Code

**Test Data**

Output Level

Phase Noise, Static and Dynamic

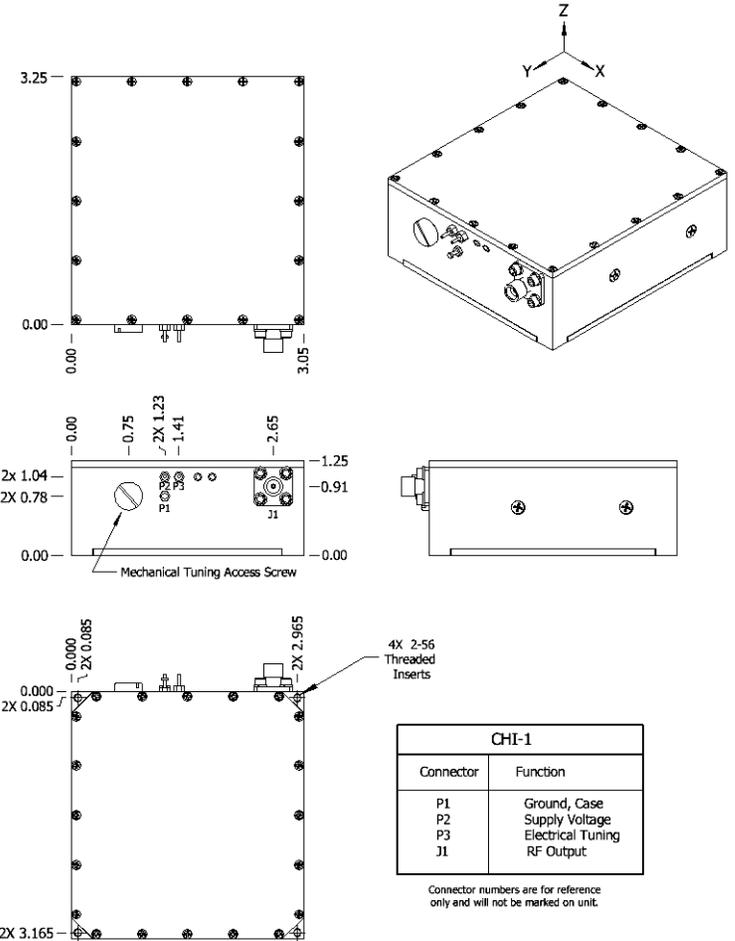
Temperature Stability

Harmonics, Spurious

Power – Warm-up and Total

Tuning – MT and ET

EV	DATE	REVISION RECORD	DWN	AUTH
-	09-20-11	Initial Release	PAC	
A	04-18-17	Increased Power Requirements	CB	





**Wenzel Associates, Inc.**  
Austin, Texas

Title: **Standard 10 MHz-SC Citrine Vibration Isolated Crystal Oscillator**

P/N: <b>501-24973</b>	Rev: <b>A</b>	Date: <b>04-18-17</b>	Drawn:	Ref: <b>STR</b>
Tolerances: (except as noted) Dimensions are in inches	0.XX Dec: <b>±0.030"</b>	0.XXX Dec: <b>±0.010"</b>	FSCM: <b>62821</b>	Page 1 of 1