

**OUTPUT**

**Frequency**

100 MHz

**Level**

+13 dBm ±2 dB into 50 ohms

**STABILITY**

**Aging**

1 x 10<sup>-6</sup> per year  
after 30 days operating, typical

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

100 Hz -130 dBc/Hz  
1 kHz -150 dBc/Hz  
10 kHz -168 dBc/Hz  
100 kHz -170 dBc/Hz

**Temperature Stability**

±5 x 10<sup>-7</sup>, 0° to +50°C (Ref +25°C)

**Harmonics**

≤ -30 dBc

**Spurious**

≤ -90 dBc, excluding power  
supply line related spurs

**MECHANICAL**

**Dimensions**

2 x 2 x 0.7"

**Connectors**

SMA(f) and solder pins on side

**Packaging**

Nickel-plated machined  
aluminum case (CV-1)

**POWER REQUIREMENTS**

**Warm-Up Power**

≤ 5 Watts for 5 minutes

**Total Power**

≤ 2.5 Watts at +25°C

**Supply Voltage**

+12 VDC ±5%

**ADJUSTMENT**

**Mechanical Tuning**

±4 x 10<sup>-6</sup>

**Electrical Tuning**

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

**CRYSTAL**

**Type**

100 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

**OTHER**

**Label**

Use conventional label with the  
following information:

501-24978 (Current Rev.)

100 MHz Citrine

+12 VDC

Serial # - Date Code

**Test Data**

Output Level

Phase Noise, Static

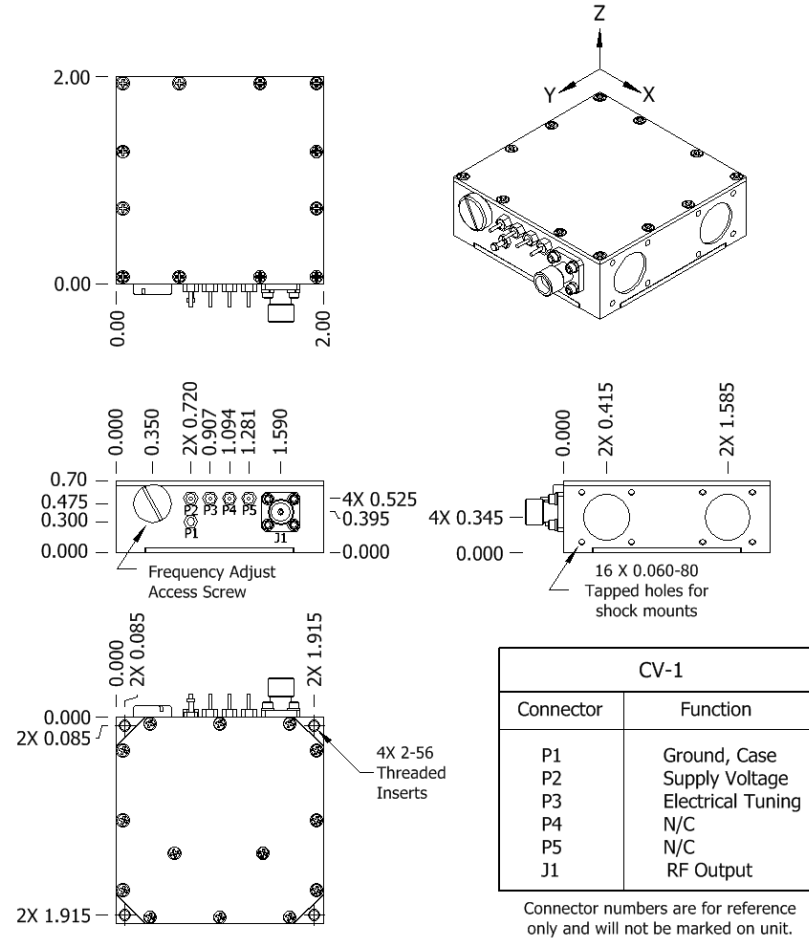
Temperature Stability

Harmonics, Spurious

Power – Warm-up and Total

Tuning – MT and ET

REV	DATE	REVISION RECORD	DWN	AUTH
-	09-20-11	Initial Release	PAC	
A	10-16-12	Phase Noise	PAC	JR



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

Title: **Standard 100 MHz-SC Citrine Crystal Oscillator**

P/N: <b>501-24978</b>	Rev: <b>A</b>	Date: <b>10-16-12</b>	Drawn:	Ref: <b>SPR</b>
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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 <b>1</b> of <b>1</b>
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