

| EV | DATE     | REVISION RECORD             | DWN | AUTH |
|----|----------|-----------------------------|-----|------|
| -  | 07-22-08 | Draft                       | VG  |      |
| A  | 01-22-09 | Updated Drawing             | PAC |      |
| B  | 02-11-09 | Updated Drawing             | PAC |      |
| C  | 04-08-09 | Title Block (Added Citrine) | VG  |      |
| D  | 06-30-10 | Updated Drawing             | PAC |      |

**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)**

100 Hz -130 dBc/Hz  
1 kHz -158 dBc/Hz  
10 kHz -176 dBc/Hz  
100 kHz -176 dBc/Hz

**Temperature Stability**

±2 x 10<sup>-7</sup>, 0° to +60°C (Ref +25°C)

**MECHANICAL**

**Dimensions**

1.835 x 1.865 x 0.75"

**Connectors**

SMA(f) and solder pins on side

**Packaging**

Nickel-plated machined aluminum case

**POWER REQUIREMENTS**

**Warm-Up Power**

≤ 5 Watts for 5 minutes

**Total Power**

≤ 2.7 Watts at +25°C

**Supply Voltage**

+15 VDC ±5%

**ADJUSTMENT**

**Mechanical Tuning**

±4 x 10<sup>-6</sup>

**Electrical Tuning**

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

**CRYSTAL**

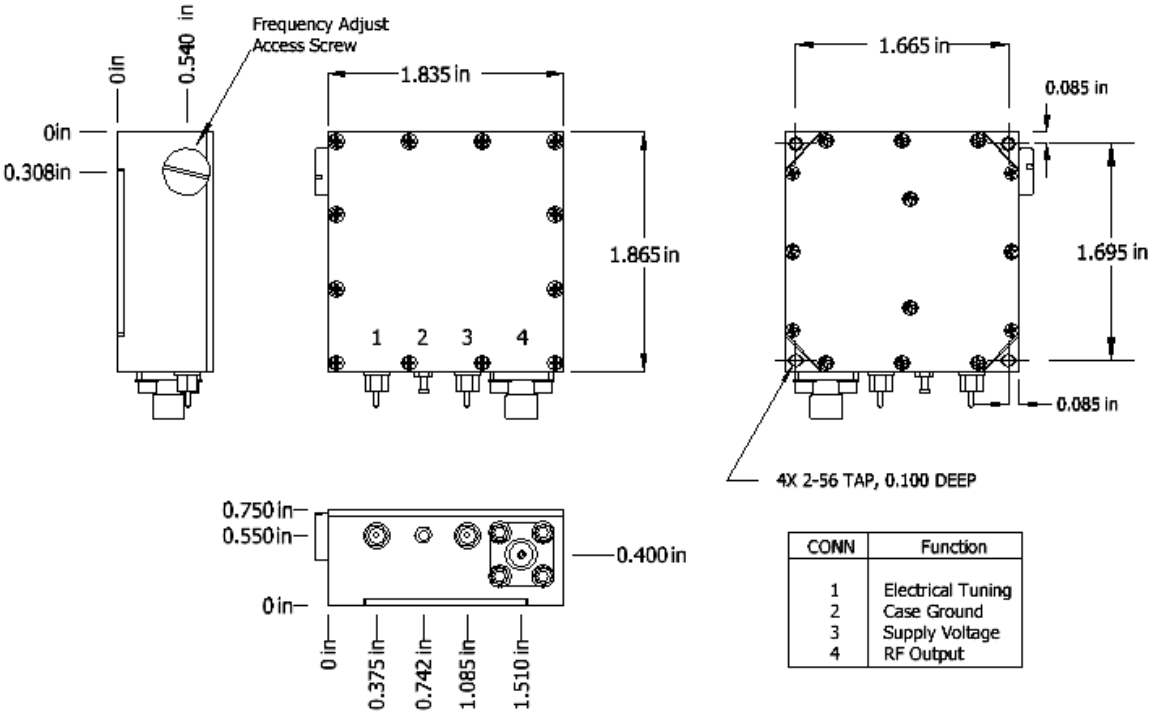
**Type**

100 MHz

**SPECIAL**

**Acceleration Sensitivity**

≤ 5 x 10<sup>-10</sup> /g per axis  
Guaranteed



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

|  |                  |                             |                              |                       |
|--|------------------|-----------------------------|------------------------------|-----------------------|
| Title:<br><b>100 MHz-SC Citrine Ultra Low Noise Crystal Oscillator</b> |                  |                             |                              |                       |
| P/N:<br><b>501-19459</b>   | Rev:<br><b>D</b> | Date:<br><b>06-30-10</b>    | Drawn:                       | Ref:                  |
| Tolerances:<br>(except as noted)<br>Dimensions are in inches           |                  | 0.XX Dec:<br><b>±0.030"</b> | 0.XXX Dec:<br><b>±0.010"</b> | FSCM:<br><b>62821</b> |