

| REV | DATE     | REVISION RECORD | DWN | AUTH |
|-----|----------|-----------------|-----|------|
| -   | 03-31-05 | Draft           | PAC |      |
|     |          |                 |     |      |
|     |          |                 |     |      |
|     |          |                 |     |      |

**OUTPUT**

**Frequency**

10 MHz

**Level**

+10 dBm ±3 dB into 50 ohms

**STABILITY**

**Aging**

±1 x 10<sup>-9</sup> per day after 30 days operating, typical

±1 x 10<sup>-7</sup> per year after 180 days operating, typical

**Phase Noise L(f)**

10 Hz -120 dBc/Hz

100 Hz -145 dBc/Hz

1 kHz -160 dBc/Hz

10 kHz -160 dBc/Hz

**Temperature Stability**

±5 x 10<sup>-8</sup>, 0°C to +50°C (Ref +25°C)

**MECHANICAL**

**Dimensions**

1" x 1" x 0.5"

**Connectors**

Solder pins on base

**Packaging**

Solder sealed steel can

**POWER REQUIREMENTS**

**Warm-Up Power**

< 4W for 2 min

**Total Power**

< 1.5W at +25°C steady state, typical

**Supply Voltage**

+12 VDC, ±5%

**ADJUSTMENT**

**Electrical Tuning**

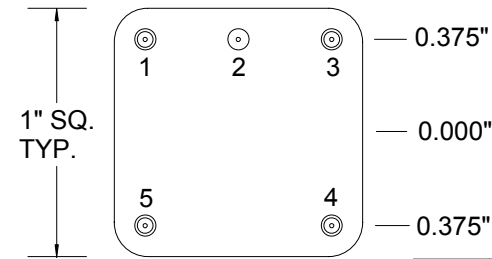
±2 x 10<sup>-6</sup>, 0 - 10 VDC

Positive slope

**CRYSTAL**

**Type**

10 MHz SC-cut



| PIN | SIGNAL            |
|-----|-------------------|
| 1   | RF OUT            |
| 2   | GND               |
| 3   | Electrical Tuning |
| 4   | N.C.              |
| 5   | +V SUPPLY         |

Connector numbers are for reference only. They are not marked on the unit.



**Wenzel Associates, Inc.**

Austin, Texas

Title:

**Standard 10 MHz-SC Onyx Crystal Oscillator**

|  |           |                             |                              |                       |
|--|-----------|-----------------------------|------------------------------|-----------------------|
| P/N:<br><b>501-14226</b>                                     | Rev:<br>- | Date:<br><b>03-31-05</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> |