

04609 REV	DATE	REVISION RECORD	DWN	AUTH
-	02-25-10	Initial Release	SS	

**OUTPUT**

**Frequency**

20 MHz

**Level**

+13 ±2dBm into 50 ohms

**STABILITY**

**Aging**

5 x 10<sup>-10</sup> per day

after 30 days operating, typical

**Phase Noise L(f)**

10 Hz -120 dBc/Hz

100 Hz -150 dBc/Hz

1 kHz -165 dBc/Hz

10 kHz -165 dBc/Hz

**Temperature Stability**

±5 x 10<sup>-9</sup>, 0° to +50°C (Ref +25°C)

**MECHANICAL**

**Dimensions**

2 x 2 x 1"

**Connectors**

SMA and feedthru capacitor

**Packaging**

Sealed steel can

**POWER REQUIREMENTS**

**Warm-Up Power**

<5 Watts for 5 minutes

**Total Power**

<2.2 Watts at +25°C

**Supply Voltage**

+15 VDC

**ADJUSTMENT**

**Mechanical Tuning**

±1 x 10<sup>-6</sup>

**Electrical Tuning**

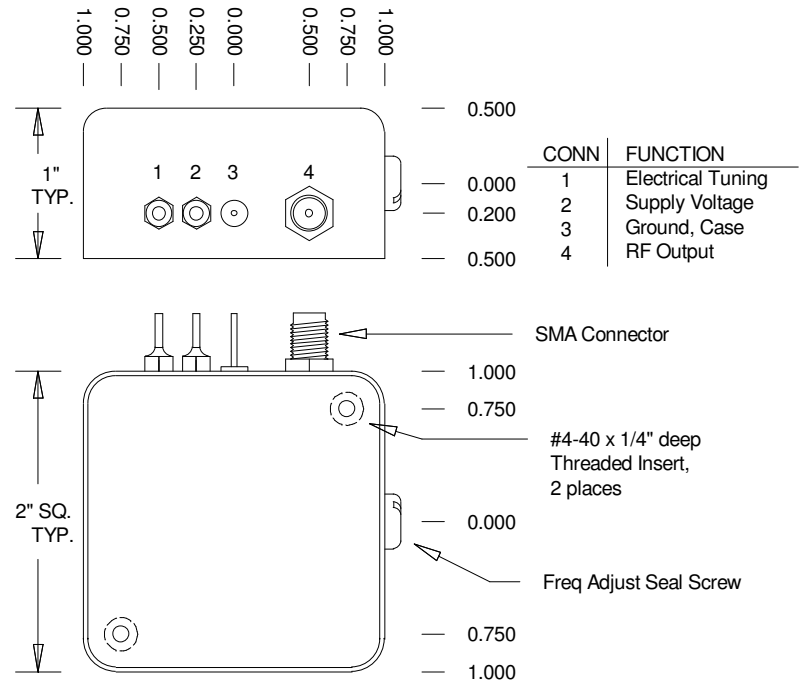
±2 x 10<sup>-7</sup>, 0 to +10VDC

Negative slope

**CRYSTAL**

**Type**

20 MHz SC-cut



Connector numbers are for reference only, they are not marked on unit.



**Wenzel Associates, Inc.**

Austin, Texas

Title:

**20 MHz-SC Streamline Crystal Oscillator**

P/N:

**501-22111**

Rev:

**-**

Date:

**02-25-10**

Drawn:

Ref:

**501-04609**

Tolerances:  
(except as noted)  
Dimensions are in inches

0.XX Dec:

**±0.030"**

0.XXX Dec:

**±0.010"**

FSCM:

**62821**

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