

**OUTPUT****Frequency**

80 MHz

**Level**

+13 dBm ±2dB into 50 ohms

**STABILITY****Aging (typical)**1 x 10<sup>-6</sup> per year after 30 days operating5 x 10<sup>-7</sup> second year3 x 10<sup>-7</sup> per year, thereafter**Phase Noise L (f)****Standard Premium**

100 Hz -130 dBc/Hz -136 dBc/Hz

1 kHz -161 dBc/Hz -166 dBc/Hz

10 kHz -175 dBc/Hz -178 dBc/Hz

100 kHz -176 dBc/Hz -180 dBc/Hz

**Temperature Stability**E: ±2 x 10<sup>-7</sup>, 0° to +50°C (Ref +25°C)F: ±5 x 10<sup>-7</sup>, -20 to +70°C (Ref +25°C)**Harmonics**

≤ -30 dBc

**Spurious**≤ -80 dBc, excluding power  
supply line related spurs**MECHANICAL****Dimensions**

1.75 x 2.94 x 1"

**Connectors**

SMA(f) and solder pins on side

**Packaging**

Solder sealed steel can

**POWER REQUIREMENTS****Warm-Up Power**

≤ 5 Watts for 5 minutes at +25°C

**Total Power**

≤ 2.5 Watts at +25°C

**Supply Voltage**

+15 VDC ±5% or +12 VDC ±5%

**ADJUSTMENT**

(consult factory for non standard tuning options)

**Mechanical Tuning**±4 x 10<sup>-6</sup>**Electrical Tuning**±2 x 10<sup>-7</sup>, ±5 VDC, Negative slope**CRYSTAL****Type**

80 MHz SC-cut

REV	DATE	REVISION RECORD	DWN	AUTH
-	12-2-13	Draft	CB	PAC

**Ordering Options**

-xx	Voltage	Phase Noise L(f)	Package	Temp (Ref +25 °C)
01	+15V	Standard	A	E
02	+15V	Standard	A	F
11	+15V	Premium	A	E
12	+15V	Premium	A	F
21	+12V	Standard	A	E
22	+12V	Standard	A	F
31	+12V	Premium	A	E
32	+12V	Premium	A	F

**Wenzel Associates, Inc.**

Austin, Texas

Title:

**80 MHz-SC Ultra Low Noise Crystal Oscillator**

P/N:

**501-27523-xx**

Rev:

-

Date:

**12-2-13**

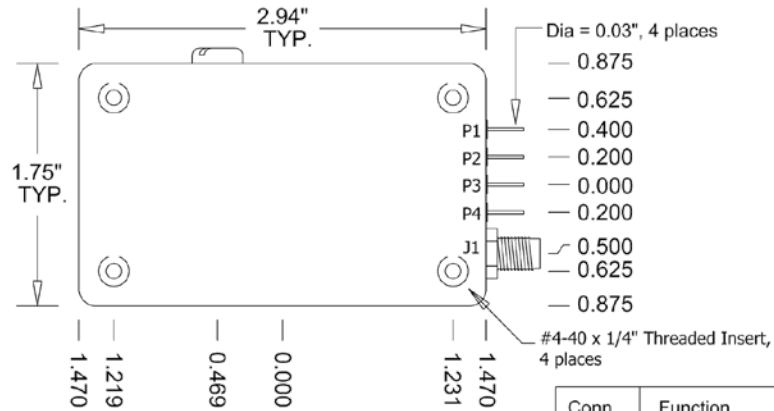
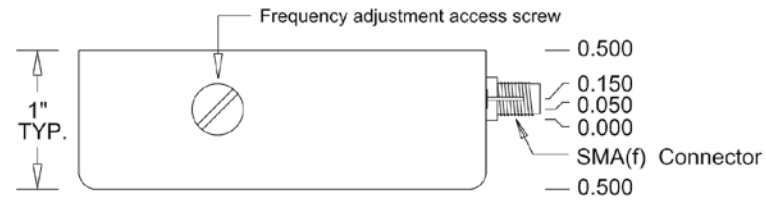
Drawn:

Ref:

Tolerances:  
(except as noted)  
Dimensions are in inches0.XX Dec:  
**±0.030"**0.XXX Dec:  
**±0.010"**FSCM:  
**62821**

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### Package A



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

Conn	Function
J1	RF Output
P1	N/C
P2	Electrical Tuning
P3	Supply Voltage
P4	Case Ground

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