

OUTPUT**Frequency**

5 MHz

Level+13 dBm ± 2 dB into 50 ohms**STABILITY****Aging (typical)** 3×10^{-10} per day after 30 days operating 5×10^{-8} second year 3×10^{-8} per year, thereafter**Phase Noise L (f)****Standard****Premium**

1 Hz -115 dBc/Hz -120 dBc/Hz

10 Hz -145 dBc/Hz -150 dBc/Hz

100 Hz -165 dBc/Hz -170 dBc/Hz

1 kHz -174 dBc/Hz -176 dBc/Hz

10 kHz -174 dBc/Hz -176 dBc/Hz

Temperature Stability**E:** $\pm 2 \times 10^{-8}$, 0° to +50°C (Ref +25°C)**F:** $\pm 5 \times 10^{-8}$, -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 $\pm 5\%$ or +12 VDC $\pm 5\%$ **ADJUSTMENT**(consult factory for non standard tuning
options)**Mechanical Tuning** $\pm 1 \times 10^{-6}$ **Electrical Tuning** $\pm 2 \times 10^{-7}$, 0 to +10 VDC, Negative slope**CRYSTAL****Type**

5 MHz SC-cut

REV	DATE	REVISION RECORD	DWN	AUTH
-	09-19-17	Initial Release	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:

5 MHz-SC Ultra Low Noise Crystal Oscillator

P/N:

501-31185-xx

Rev:

-

Date:

09-19-17

Drawn:

Ref:

Tolerances:
(except as noted)
Dimensions are in inches

0.XX Dec:

 ± 0.030 "

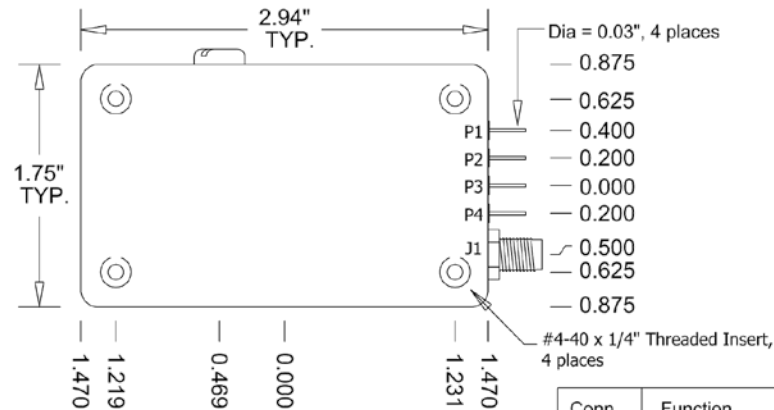
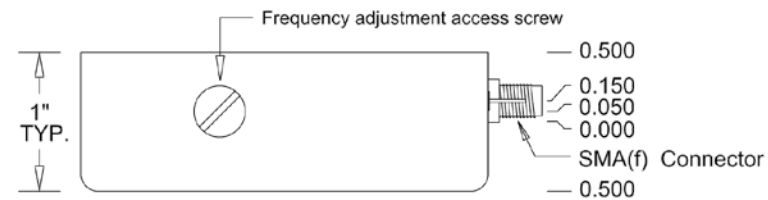
0.XXX Dec:

 ± 0.010 "

FSCM:

62821Page **1** of **2**

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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Page 2 of 2