

OUTPUT**Frequency**

100 MHz

Level+13 dBm ± 2 dB into 50 ohms**STABILITY****Aging (typical)**1 x 10⁻⁶ per year after 30 days operating5 x 10⁻⁷ second year3 x 10⁻⁷ per year, thereafter**Phase Noise L (f)**

	Standard	Premium
100 Hz	-130 dBc/Hz	-135 dBc/Hz
1 kHz	-158 dBc/Hz	-160 dBc/Hz
10 kHz	-175 dBc/Hz	-178 dBc/Hz
100 kHz	-176 dBc/Hz	-180 dBc/Hz

Temperature StabilityE: $\pm 2 \times 10^{-7}$, 0° to +50°C (Ref +25°C)F: $\pm 5 \times 10^{-7}$, -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 $\pm 4 \times 10^{-6}$ **Electrical Tuning** $\pm 2 \times 10^{-7}$, ± 5 VDC, Negative slope**CRYSTAL****Type**

100 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

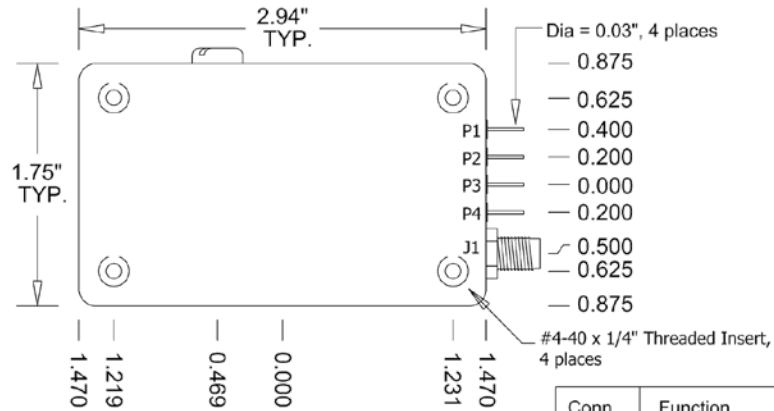
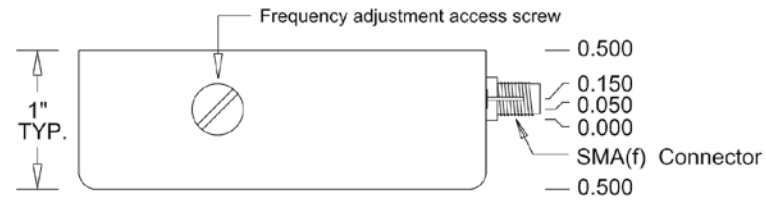
Title:

100 MHz-SC Ultra Low Noise Crystal Oscillator

P/N: 501-27524-xx	Rev: -	Date: 12-2-13	Drawn:	Ref:
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Tolerances: (except as noted) Dimensions are in inches	0.XX Dec: ± 0.030"	0.XXX Dec: ± 0.010"	FSCM: 62821	Page 1 of 2
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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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FSCM:

62821

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