

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:

Tolerances:
(except as noted)
Dimensions are in inches

0.XX Dec:

 ± 0.030 "

0.XXX Dec:

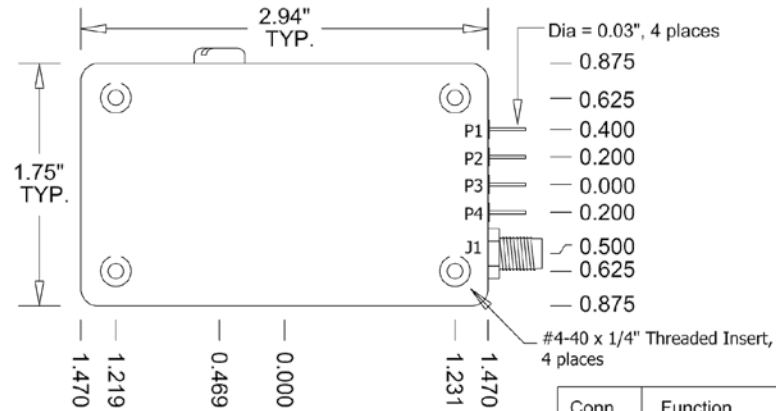
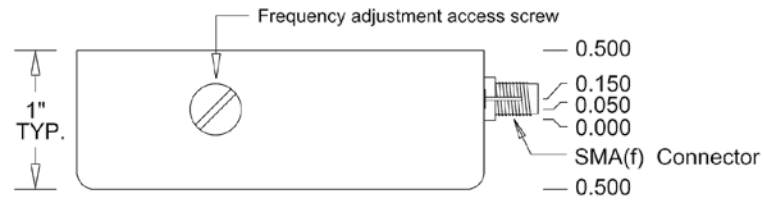
 ± 0.010 "

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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