

OUTPUT**Frequency**

10 MHz

Level

+13 dBm ±2dB into 50 ohms

STABILITY**Aging (typical)**5 x 10⁻¹⁰ per day after 30 days operating5 x 10⁻⁸ second year3 x 10⁻⁸ per year, thereafter**Phase Noise L (f)****Standard****Premium**

1 Hz -105 dBc/Hz -110 dBc/Hz

10 Hz -137 dBc/Hz -142 dBc/Hz

100 Hz -162 dBc/Hz -167 dBc/Hz

1 kHz -172 dBc/Hz -175 dBc/Hz

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

Temperature Stability**E:** ±2 x 10⁻⁸, 0° to +50°C (Ref +25°C)**F:** ±5 x 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 ±5% or +12 VDC ±5%

ADJUSTMENT

(consult factory for non standard tuning options)

Mechanical Tuning±1 x 10⁻⁶**Electrical Tuning**±2 x 10⁻⁷, ±5 VDC, Negative slope**CRYSTAL****Type**

10 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:

10 MHz-SC Ultra Low Noise Crystal Oscillator

P/N:

501-27521-xx

Rev:

-

Date:

12-2-13

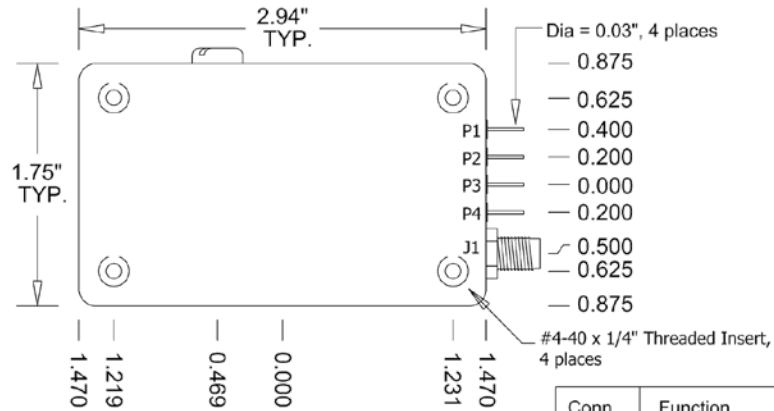
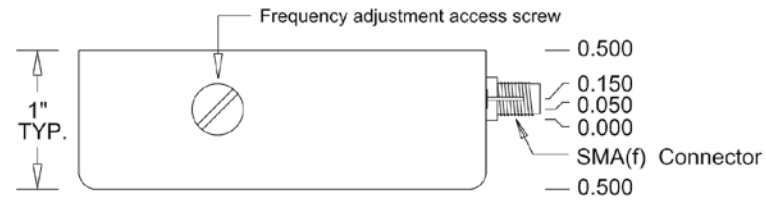
Drawn:

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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