REV	DATE	REVISION RECORD	DWN	AUTH
-	11-15-17	Initial Release	CB	

OUTPUT

Frequency

16 MHz

Level

+13 dBm ±2dB into 50 ohms

STABILITY

Aging (typical)

5×10^{-10} per day after 30 days operating

5×10^{-8} second year

3×10^{-8} per year, thereafter

Phase Noise L (f)

1 Hz	-88 dBc/Hz
10 Hz	-120 dBc/Hz
100 Hz	-150 dBc/Hz
1 kHz	-170 dBc/Hz
10 kHz	-174 dBc/Hz

Temperature Stability

$\pm 2 \times 10^{-8}$, 0° to +50°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%

ADJUSTMENT

(consult factory for non standard tuning options)

Mechanical Tuning

$\pm 1 \times 10^{-6}$

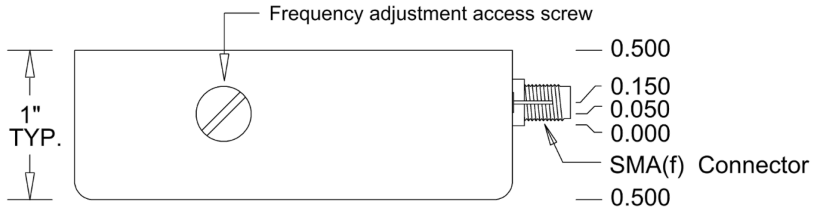
Electrical Tuning

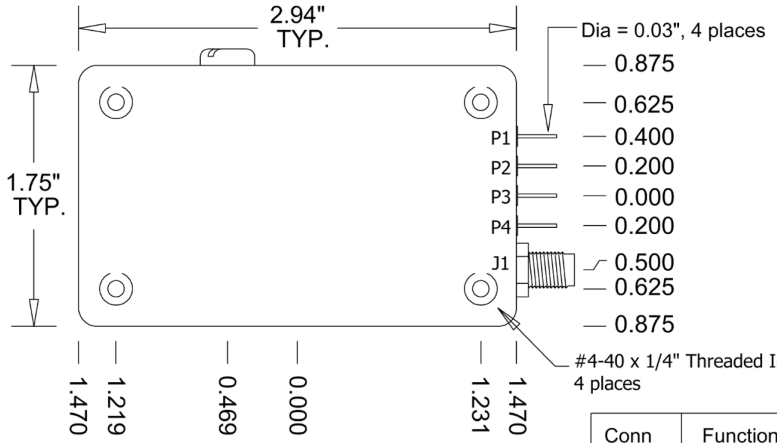
$\pm 2 \times 10^{-7}$, ±5 VDC, Negative slope

CRYSTAL

Type

16 MHz SC-cut





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

Wenzel Associates, Inc.
Austin, Texas

Title:
16 MHz-SC Ultra Low Noise Crystal Oscillator

P/N:	Rev:	Date:	Drawn:	Ref:
501-31310	**-**	**11-15-17**		

Tolerances: (except as noted) Dimensions are in inches	0.XX Dec:	0.XXX Dec:	FSCM:	Page 1 of 1
	±0.030”	±0.010”	62821	