

## OUTPUT

### Frequency

10 MHz

### Level

+8 ±1 dBm into 50 ohms

### Frequency Accuracy

To within  $\pm 2 \times 10^{-8}$  of final frequency  
at time of shipment

## STABILITY

### Aging

0.5 ppb per day at time of shipment

### Phase Noise L(f)

1 Hz -115 dBc/Hz  
10 Hz -145 dBc/Hz  
100 Hz -160 dBc/Hz  
1 kHz -165 dBc/Hz  
10 kHz -165 dBc/Hz

### Temperature Stability

±2 ppb, -20° to +70°C (Ref: +25°C)

### Harmonics

-30 dBc

### Non-Harmonics

-90 dBc, excluding line related spurs

## MECHANICAL

### Dimensions

2.25 x 2.25 x 1"

### Connectors

SMA(f) and feedthru capacitor

### Packaging

Sealed steel can with gasketed access  
screw and threaded inserts on base

## POWER REQUIREMENTS

### Oscillator Supply Voltage

+12 ±1 VDC, 40 mA max

### Oven Supply Voltage

+12 ±1 VDC

< 8 Watts for 10 minutes (+25°C) at turn on

< 3 Watts at +25°C after stabilization

## ADJUSTMENT

### Mechanical Tuning

±1 × 10<sup>-6</sup>

### Electrical Tuning

±2 × 10<sup>-7</sup>, ±5 VDC

## CRYSTAL

### Type

SC-cut

## OTHER

### Storage Temperature

-40° to +85°C

### Acceleration Sensitivity

< 2 × 10<sup>-9</sup>/g per axis, typical

### Oven Monitor

At turn on: +10.5 ±1 VDC

At stabilization: +3.5 ±0.5 VDC

(10 minutes after turn on at +25°C)

Source impedance: 20 kohm, nominal

### Test Data

Output Level

Frequency Accuracy (at shipment)

Aging (at shipment)

Phase Noise

Temperature Stability

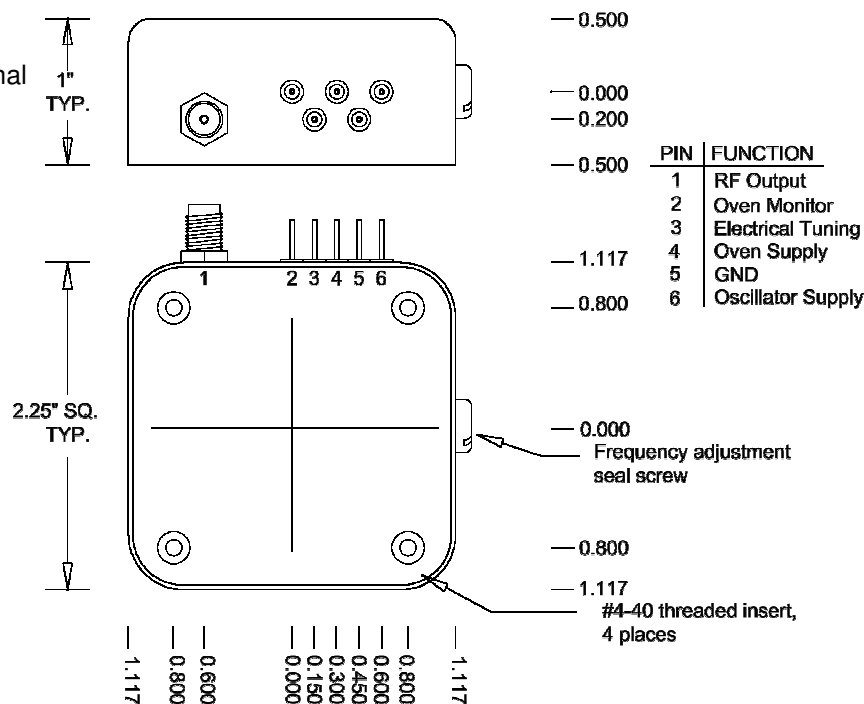
Harmonics

Non-Harmonics

Warm-up Power

Total Power

REV	DATE	REVISION RECORD	DWN	AUTH
-	02-24-14	Initial Release	PAC	Liz
A	06-23-16	Title block	Liz	SS



**Wenzel Associates, Inc.**

Austin, Texas

Title: <b>10 MHz Very Stable Streamline Crystal Oscillator</b>				
P/N: <b>501-27867</b>	Rev: <b>A</b>	Date: <b>06-23-16</b>	Drawn:	Ref:
Tolerances: (except as noted) Dimensions are in inches		0.XX Dec: <b>±0.030"</b>	0.XXX Dec: <b>±0.010"</b>	FSCM: <b>62821</b>
			Page 1 of 1	