

## OUTPUT

### Frequency

80 MHz

### Sine

+13 dBm  $\pm 2$  dB into 50 ohms

## STABILITY

### Aging

$\pm 5 \times 10^{-7}$  per year, Year 1

$\pm 2 \times 10^{-7}$  per year, Year 2

$\pm 1 \times 10^{-7}$  per year, thereafter

### Phase Noise L(f)

#### Static, Sine Output

1 Hz -70 dBc/Hz

10 Hz -100 dBc/Hz

100 Hz -130 dBc/Hz

1 kHz -160 dBc/Hz

10 kHz -173 dBc/Hz

100 kHz -180 dBc/Hz

### G-Sensitivity

2e-11 per axis from 4 Hz to 300 Hz

### Temperature Stability, typical

$< \pm 5 \times 10^{-8}$ , +0° to +50°C (Ref +33°C)

Normal operating temp, +30°C

### Harmonics,

-30 dBc

### Spurious

-90 dBc

### Load Sensitivity, typical

$\pm 10\text{e-}9$  for 5% change

### Line Sensitivity, typical

$\pm 10\text{e-}9$  for 5% change

## MECHANICAL

### Dimensions

4 x 4.5 x 0.9", plus brackets

### Connectors

SMA for RF

Male DB 9 Connector for DC

### Packaging

Machined Aluminum enclosure

### Weight

0.8 LBS, typical

## POWER REQUIREMENTS

### Warm-Up Power

$\leq 7$  Watts for 10 minutes, typical

### Total Steady-State Power

5 Watts, typical

### Supply Voltage

+12 VDC  $\pm 5\%$

## ADJUSTMENT

### Electrical Tuning Sensitivity

$> \pm 6 \times 10^{-7}$  min, 0 to +10 VDC,

### Electrical Tuning Bandwidth

$> 100$  Hz, Lock below 1 Hz for best performance under vibration

## OTHER

### Design

Vibration isolation/compensation system for best noise under vibration  
Utilizes Bootstrap Technology

### Test Data

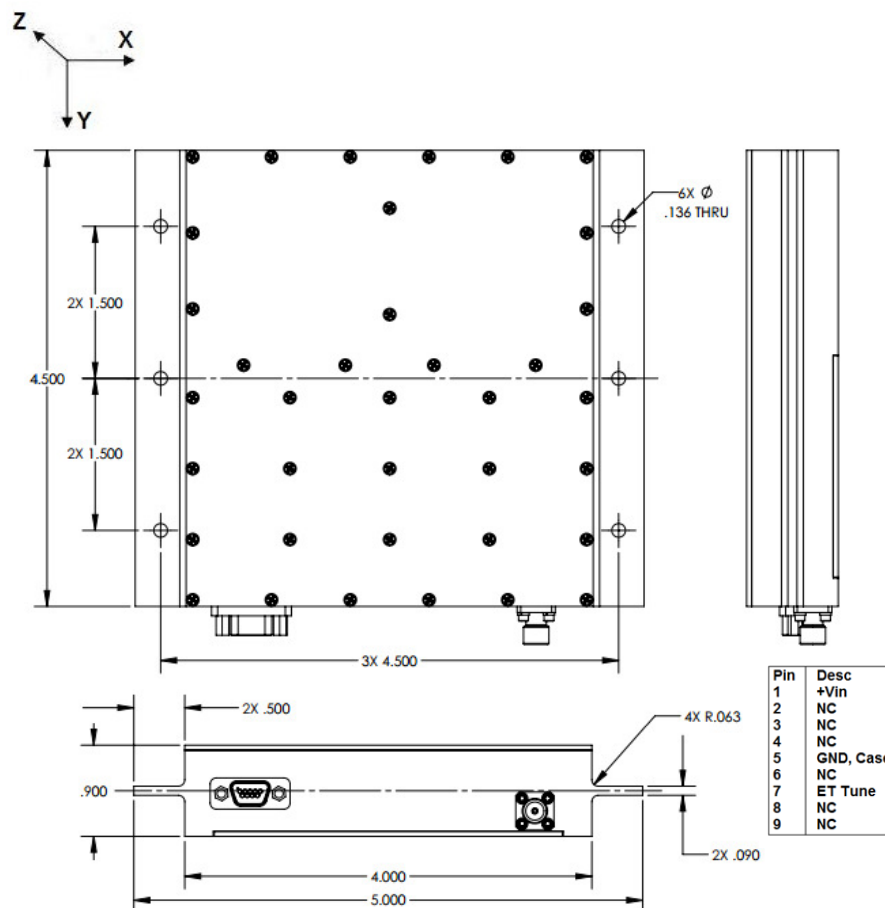
- Output Level
- Phase Noise
- G-sensitivity in 3 axes, 30 and 100 Hz
- Temperature Stability
- Harmonics, Subs, Products, Spurs
- Power – Warm-up and Total

## CRYSTAL

### Type

Very low-g sensitivity  
80 MHz SC

REV	DATE	REVISION RECORD	DWN	AUTH
-	12-11-15	Initial Release	Liz	



**Wenzel Associates, Inc.**

Austin, Texas

Title:

**80 MHz Bootstrap Low-G Sensitivity Oscillator**

P/N:

**501-29627**

Rev:

**-**

Date:

**12-11-15**

Drawn:

Ref:

Tolerances:  
(except as noted)  
Dimensions are in inches

0.XX Dec:

**$\pm 0.030$ "**

0.XXX Dec:

**$\pm 0.010$ "**

FSCM:

**62821**

Page 1 of 1