

**OUTPUT****Frequency**

100 MHz

**Level**+13 dBm  $\pm$  2 dB into 50 ohmsG\*: +13 dBm  $\pm$  3 dB into 50 ohms**STABILITY****Aging (typical)**1 x 10<sup>-6</sup> per year after 30 days operating5 x 10<sup>-7</sup> second year3 x 10<sup>-7</sup> per year, thereafter**Phase Noise L(f)**

|         | Standard    | Premium     |
|---------|-------------|-------------|
| 100 Hz  | -120 dBc/Hz | -130 dBc/Hz |
| 1 kHz   | -150 dBc/Hz | -155 dBc/Hz |
| 10 kHz  | -165 dBc/Hz | -165 dBc/Hz |
| 100 kHz | -165 dBc/Hz | -167 dBc/Hz |

**Temperature Stability**E:  $\pm 2 \times 10^{-7}$ , 0° to +50°C (Ref +25°C)F:  $\pm 5 \times 10^{-7}$ , -20 to +70°C (Ref +25°C)G\*:  $\pm 2 \times 10^{-6}$ , -55° to +85°C (Ref +25°C)**Harmonics** $\leq$  -30 dBc**Spurious** $\leq$  -80 dBc, excluding power  
supply line related spurs**MECHANICAL****Packaging**

Solder sealed steel can

**Dimensions**

2 x 2 x 0.75"

**Connectors / Mounting**Package A: SMA(f) and solder pins on side;  
threaded inserts, #4-40, 2 placesPackage B: Solder pins on base; Thru hole  
PCB Mount**POWER REQUIREMENTS****Warm-Up Power** $\leq$  5 Watts for 5 minutes at +25°CG\*:  $\leq$  6 Watts for 5 minutes at +25°C**Total Power** $\leq$  2.2 Watts at +25°CG\*:  $\leq$  3 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** $\pm 5 \times 10^{-7}$ ,  $\pm 5$  VDC, Negative slope**CRYSTAL****Type**

100 MHz SC-cut

| REV | DATE     | REVISION RECORD | DWN | AUTH |
|-----|----------|-----------------|-----|------|
| -   | 11-27-13 | Initial Release | CB  |      |
|     |          |                 |     |      |
|     |          |                 |     |      |
|     |          |                 |     |      |

## Ordering Options

| -XX | Voltage | Phase Noise L(f) | Package | Temp (Ref +25°C) |
|-----|---------|------------------|---------|------------------|
| 01  | +15V    | Standard         | A       | E                |
| 02  | +15V    | Standard         | A       | F                |
| 03  | +15V    | Standard         | A       | G                |
| 04  | +15V    | Standard         | B       | E                |
| 05  | +15V    | Standard         | B       | F                |
| 06  | +15V    | Standard         | B       | G                |
| 11  | +15V    | Premium          | A       | E                |
| 12  | +15V    | Premium          | A       | F                |
| 13  | +15V    | Premium          | A       | G                |
| 14  | +15V    | Premium          | B       | E                |
| 15  | +15V    | Premium          | B       | F                |
| 16  | +15V    | Premium          | B       | G                |
| 21  | +12V    | Standard         | A       | E                |
| 22  | +12V    | Standard         | A       | F                |
| 23  | +12V    | Standard         | A       | G                |
| 24  | +12V    | Standard         | B       | E                |
| 25  | +12V    | Standard         | B       | F                |
| 26  | +12V    | Standard         | B       | G                |
| 31  | +12V    | Premium          | A       | E                |
| 32  | +12V    | Premium          | A       | F                |
| 33  | +12V    | Premium          | A       | G                |
| 34  | +12V    | Premium          | B       | E                |
| 35  | +12V    | Premium          | B       | F                |
| 36  | +12V    | Premium          | B       | G                |

**Wenzel Associates, Inc.**

Austin, Texas

Title:

**100 MHz-SC Sprinter Crystal Oscillator**

P/N:

**501-27514-xx**

Rev:

**-**

Date:

**11-27-13**

Drawn:

Ref:

Tolerances:  
(except as noted)  
Dimensions are in inches

0.XX Dec:

 **$\pm 0.030$ "**

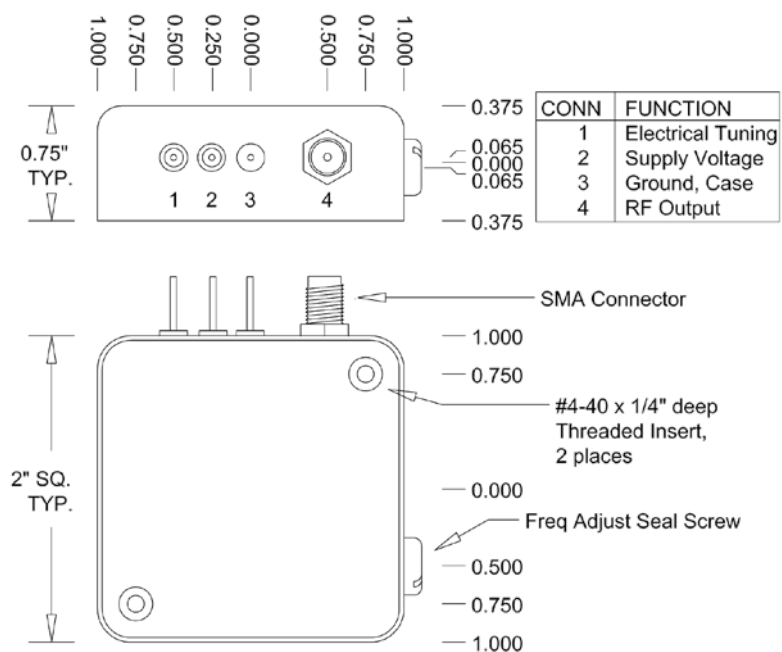
0.XXX Dec:

 **$\pm 0.010$ "**

FSCM:

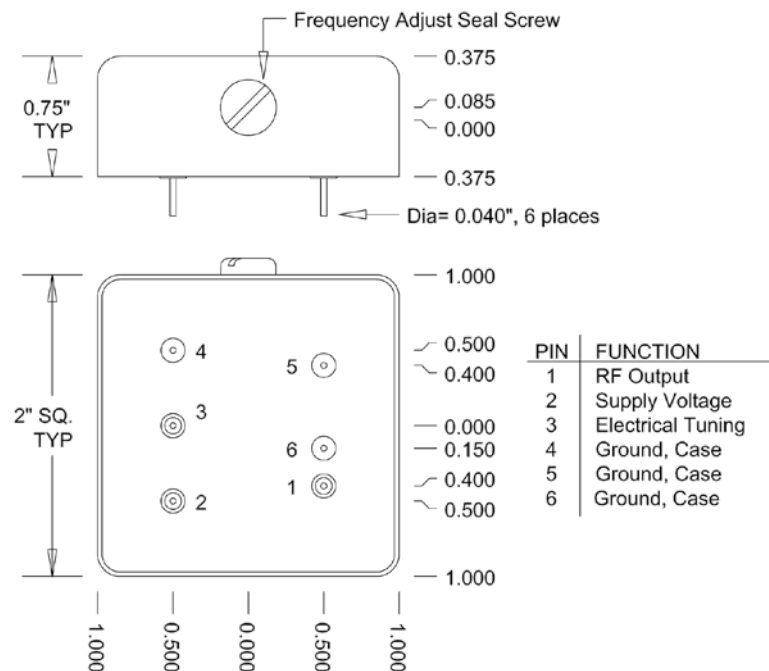
**62821**Page **1** of **2**

Package A



Connector numbers are for reference only, they are not marked on unit.

Package B



Connector numbers are for reference only, they are not marked on unit.

## Wenzel Associates, Inc.

Austin, Texas

Title:

**100 MHz-SC Sprinter Crystal Oscillator**

P/N:

**501-27514-xx**

Rev:

-

Date:

**11-27-13**

Drawn:

Ref:

Tolerances:  
(except as noted)  
Dimensions are in inches

0.XX Dec:  
**±0.030"**

0.XXX Dec:  
**±0.010"**

FSCM:  
**62821**

Page 2 of 2