

**OUTPUT****Frequency**

80 MHz

**Level**

+13 dBm ± 2 dB into 50 ohms

G\*: +13 dBm ±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 -130 dBc/Hz -135 dBc/Hz

1 kHz -150 dBc/Hz -155 dBc/Hz

10 kHz -165 dBc/Hz -168 dBc/Hz

100 kHz -165 dBc/Hz -170 dBc/Hz

**Temperature Stability**E: ±2 x 10<sup>-7</sup>, 0° to +50°C (Ref +25°C)F: ±5 x 10<sup>-7</sup>, -20 to +70°C (Ref +25°C)G\*: ±2 x 10<sup>-6</sup>, -55° to +85°C (Ref +25°C)**Harmonics**

≤ -30 dBc

**Spurious**

≤ -80 dBc, excluding power

supply line related spurs

**MECHANICAL****Packaging**

Solder sealed steel can

**Dimensions**

A: 1.5 x 1.5 x 0.5"

B: 1.5 x 1.5 x 0.75"

**Connectors / Mounting**

A: Solder pins on base; Thru-hole PCB mount

B: SMB(f) and solder pins on side;  
threaded inserts, #4-40, 4 places**POWER REQUIREMENTS****Warm-Up Power**

≤ 5 Watts for less than 3 minutes at +25°C

G\*: ≤ 6 Watts for 5 minutes at +25°C

**Total Power**

≤ 2.2 Watts at +25°C

G\*: ≤ 3 Watts at +25°C

**Supply Voltage**

+15 VDC ±5% or +12 VDC ±5%

**ADJUSTMENT**

(consult factory for non standard tuning options)

**Mechanical Tuning**±4 x 10<sup>-6</sup>**Electrical Tuning**±5 x 10<sup>-7</sup>, ±5 VDC, Negative slope**CRYSTAL****Type**

80 MHz SC-cut

**Acceleration Sensitivity**

Select desired sensitivity

5: 5e-10 per g, per axis typical

3: 3e-10 per g, per axis typical

REV	DATE	REVISION RECORD	DWN	AUTH
-	11-25-13	Initial Release	CB	

**Wenzel Associates, Inc.**

Austin, Texas

Title:

**80 MHz-SC L.O. Series Crystal Oscillator**

P/N: <b>501-27511-xx</b>	Rev: -	Date: <b>11-25-13</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 3

### Ordering Options

-xx	G-Sensitivity	Voltage	Phase Noise L(f)	Package	Temp (Ref +25 °C)
01	5	+15V	Standard	A	E
02	5	+15V	Standard	A	F
03	5	+15V	Standard	A	G
05	5	+15V	Standard	B	E
06	5	+15V	Standard	B	F
07	5	+15V	Standard	B	G
11	5	+15V	Premium	A	E
12	5	+15V	Premium	A	F
13	5	+15V	Premium	A	G
15	5	+15V	Premium	B	E
16	5	+15V	Premium	B	F
17	5	+15V	Premium	B	G
21	5	+12V	Standard	A	E
22	5	+12V	Standard	A	F
23	5	+12V	Standard	A	G
25	5	+12V	Standard	B	E
26	5	+12V	Standard	B	F
27	5	+12V	Standard	B	G
31	5	+12V	Premium	A	E
32	5	+12V	Premium	A	F
33	5	+12V	Premium	A	G
35	5	+12V	Premium	B	E
36	5	+12V	Premium	B	F
37	5	+12V	Premium	B	G

-xx	G-Sensitivity	Voltage	Phase Noise L(f)	Package	Temp (Ref +25 °C)
41	3	+15V	Standard	A	E
42	3	+15V	Standard	A	F
43	3	+15V	Standard	A	G
45	3	+15V	Standard	B	E
46	3	+15V	Standard	B	F
47	3	+15V	Standard	B	G
51	3	+15V	Premium	A	E
52	3	+15V	Premium	A	F
53	3	+15V	Premium	A	G
55	3	+15V	Premium	B	E
56	3	+15V	Premium	B	F
57	3	+15V	Premium	B	G
61	3	+12V	Standard	A	E
62	3	+12V	Standard	A	F
63	3	+12V	Standard	A	G
65	3	+12V	Standard	B	E
66	3	+12V	Standard	B	F
67	3	+12V	Standard	B	G
71	3	+12V	Premium	A	E
72	3	+12V	Premium	A	F
73	3	+12V	Premium	A	G
75	3	+12V	Premium	B	E
76	3	+12V	Premium	B	F
77	3	+12V	Premium	B	G

## Wenzel Associates, Inc.

Austin, Texas

Title:

**80 MHz-SC L.O. Series Crystal Oscillator**

P/N:

**501-27511-xx**

Rev:

**-**

Date:

**11-25-13**

Drawn:

Ref:

Tolerances:  
(except as noted)  
Dimensions are in inches

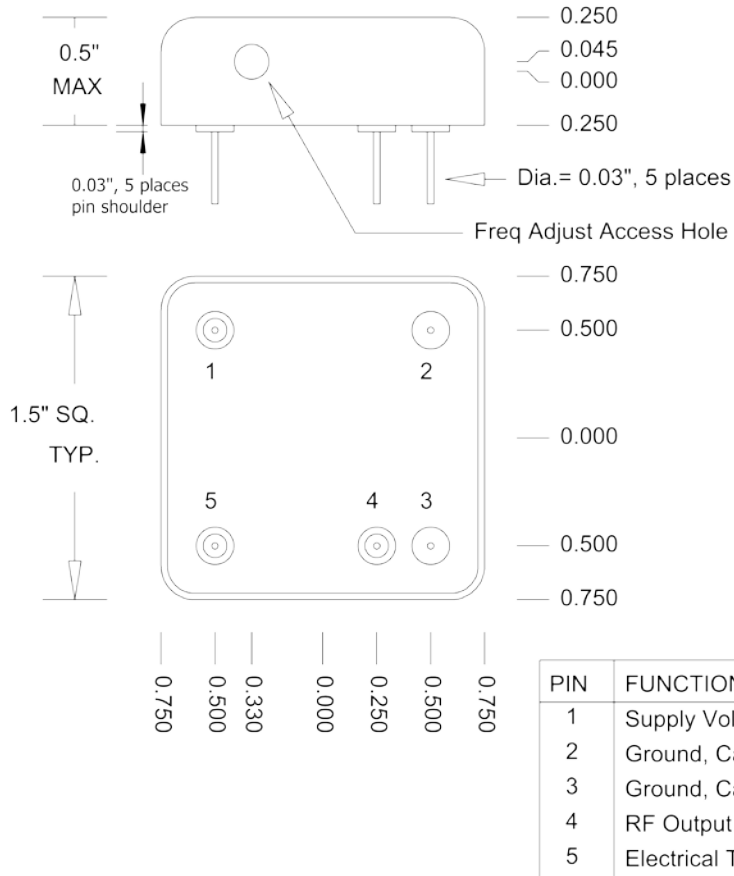
0.XX Dec:  
**±0.030"**

0.XXX Dec:  
**±0.010"**

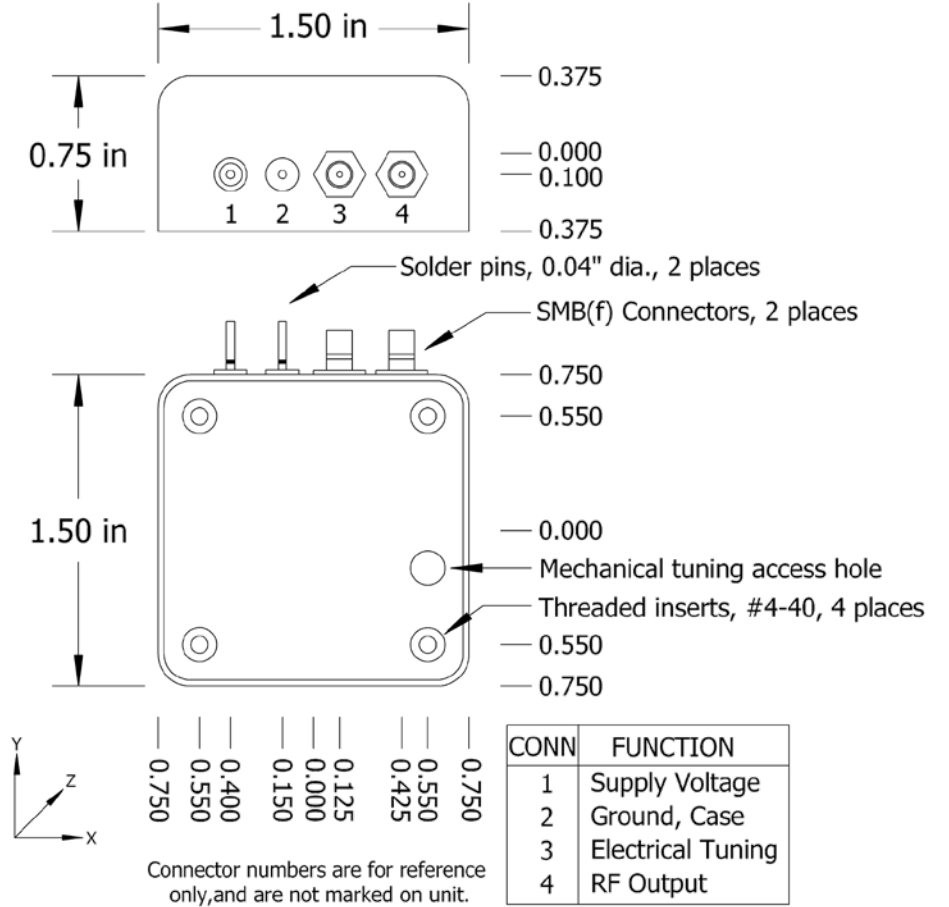
FSCM:  
**62821**

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Package A



Package B



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Austin, Texas

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**80 MHz-SC L.O. Series Crystal Oscillator**

P/N:  
**501-27511-xx**

Rev:  
**-**

Date:  
**11-25-13**

Drawn:

Ref:  
**501-04558**

Tolerances:  
(except as noted)  
Dimensions are in inches

0.XX Dec:  
**±0.030"**

0.XXX Dec:  
**±0.010"**

FSCM:  
**62821**