

**OUTPUT****Frequency**

10.24 MHz

**Level**

+13 dBm ± 2 dB into 50 ohms

**STABILITY****Aging (typical)**5 x 10<sup>-10</sup> per day after 30 days operating5 x 10<sup>-8</sup> second year3 x 10<sup>-8</sup> per year, thereafter**Phase Noise L(f)**

	Standard	Premium
10 Hz	-130 dBc/Hz	-135 dBc/Hz
100 Hz	-155 dBc/Hz	-158 dBc/Hz
1 kHz	-165 dBc/Hz	-165 dBc/Hz
10 kHz	-165 dBc/Hz	-165 dBc/Hz

**Temperature Stability****E:** ±2 x 10<sup>-9</sup>, 0° to +50°C (Ref +25°C)**F:** ±5 x 10<sup>-9</sup>, -20° to +70°C (Ref +25°C)**G\*:** ±1.5 x 10<sup>-8</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**

2" x 2" x 1"

**Connectors / Mounting**

Package A: SMA(f) and solder pins on side; threaded inserts, #4-40, 2 places

Package B: Solder pins on base; Thru hole PCB Mount

**POWER REQUIREMENTS****Warm-Up Power**

≤ 5 Watts for 5 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**±1 x 10<sup>-6</sup>**Electrical Tuning**±2 x 10<sup>-7</sup>, ±5 VDC, Negative slope**CRYSTAL****Type**

10.24 MHz SC-cut

REV	DATE	REVISION RECORD	DWN	AUTH
-	04-30-15	Initial Release	BH	

**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:

**10.24 MHz-SC Streamline Crystal Oscillator**

P/N:

**501-28999-XX**

Rev:

-

Date:

**04-30-15**

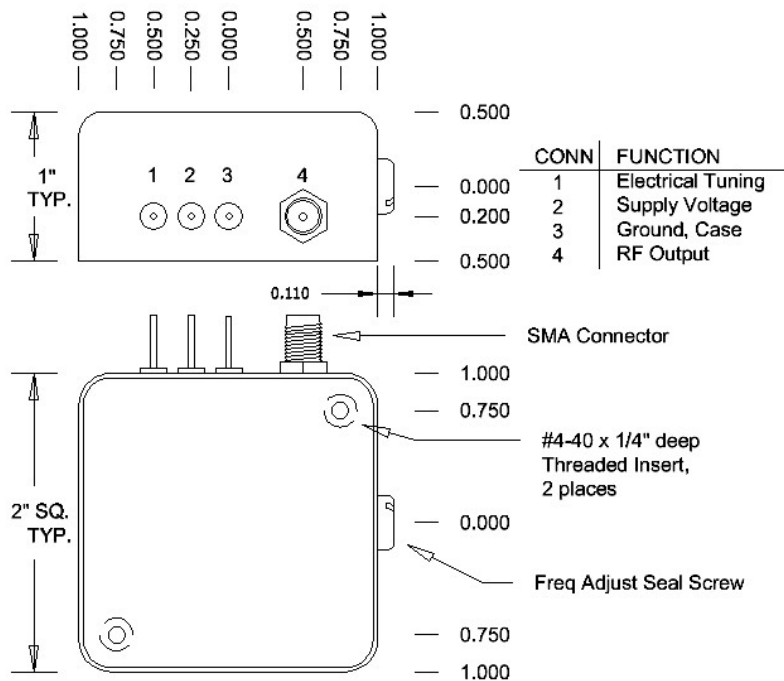
Drawn:

Ref:

**27501**Tolerances:  
(except as noted)  
Dimensions are in inches0.XX Dec:  
**±0.030"**0.XXX Dec:  
**±0.010"**FSCM:  
**62821**

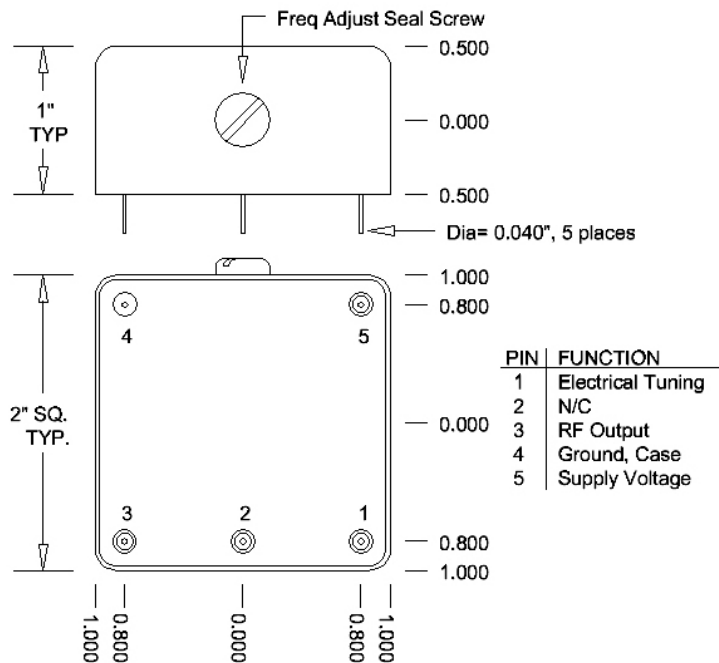
Page 1 of 2

### 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.

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Austin, Texas

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**10.24 MHz-SC Streamline Crystal Oscillator**

P/N:

**501-28999-XX**

Rev:

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Date:

**04-30-15**

Drawn:

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FSCM:  
**62821**

Page 2 of 2