

**OUTPUT****Frequency**

500 MHz

**Level**

+13 dBm ± 2dB 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 -105 dBc/Hz -115 dBc/Hz

1 kHz -135 dBc/Hz -140 dBc/Hz

10 kHz -150 dBc/Hz -150 dBc/Hz

100 kHz -150 dBc/Hz -152 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

**Sub-Harmonics**

≤ -50 dBc

**Spurious**≤ -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**

≤ 6 Watts for 5 minutes at +25°C

G\*: ≤ 7 Watts for 5 minutes at +25°C

**Total Power**

≤ 4 Watts at +25°C

G\*: ≤ 5 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**

100 MHz SC-cut (x5)

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:

**500 MHz-SC Sprinter Crystal Oscillator**

P/N:

**501-27584-xx**

Rev:

**-**

Date:

**11-27-13**

Drawn:

Ref:

Tolerances:  
(except as noted)  
Dimensions are in inches

0.XX Dec:

**±0.030"**

0.XXX Dec:

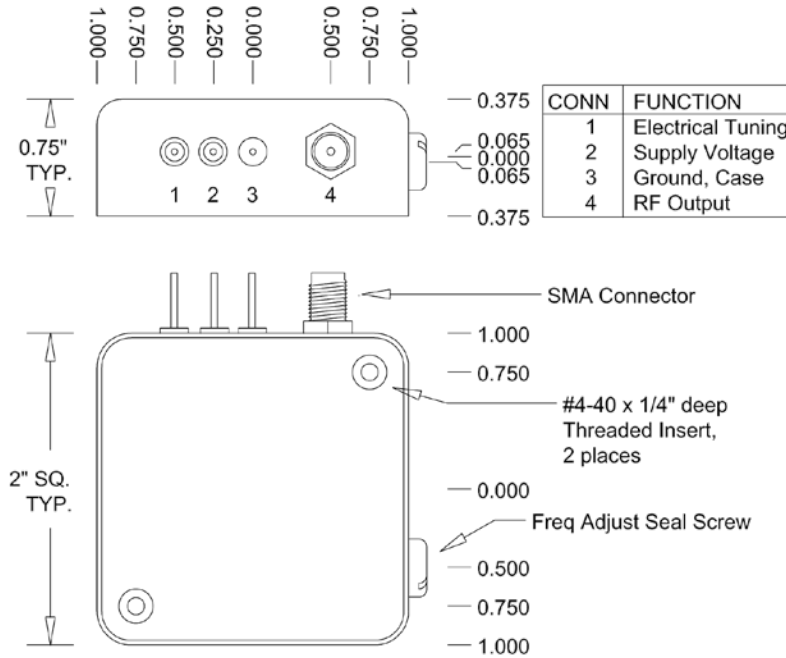
**±0.010"**

FSCM:

**62821**

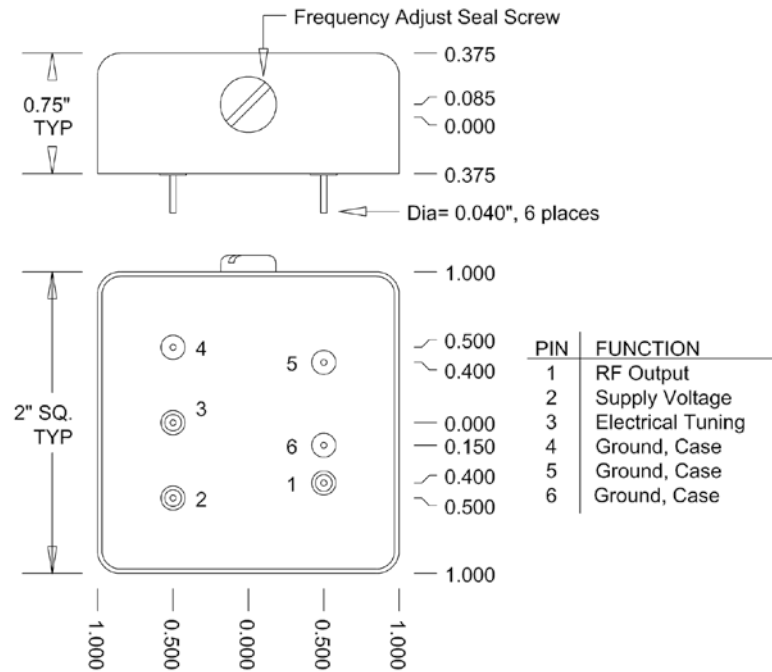
Page 1 of 2

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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Title: **500 MHz-SC Sprinter Crystal Oscillator**

P/N: **501-27584-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