

OUTPUT**Frequency**

500 MHz

Level

+13 dBm ± 2dB into 50 ohms

STABILITY**Aging (typical)**1 x 10⁻⁶ per year after 30 days operating5 x 10⁻⁷ second year3 x 10⁻⁷ 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 StabilityE: ±2 x 10⁻⁷, 0° to +50°C (Ref +25°C)F: ±5 x 10⁻⁷, -20 to +70°C (Ref +25°C)G*: ±2 x 10⁻⁶, -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 / MountingPackage 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 10⁻⁶**Electrical Tuning**±5 x 10⁻⁷, ±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:

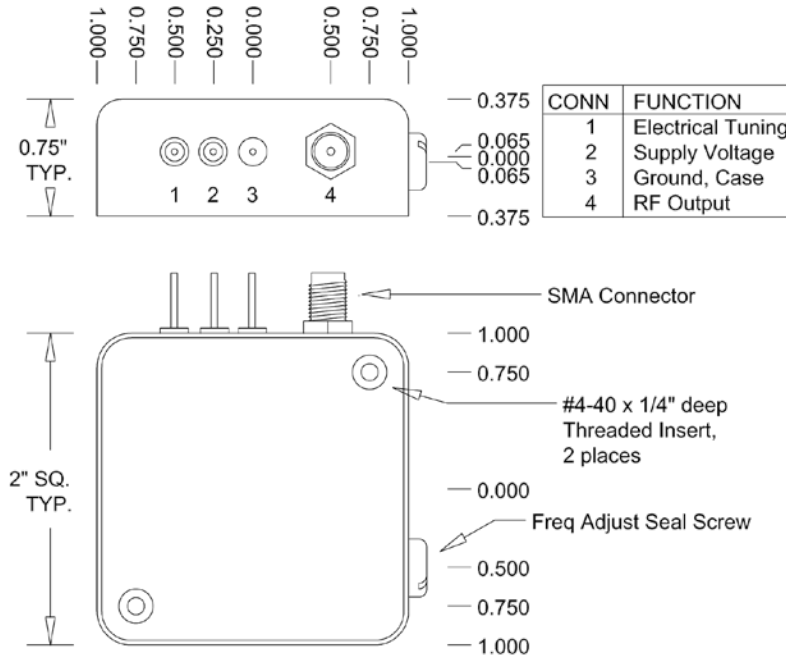
±0.010"

FSCM:

62821

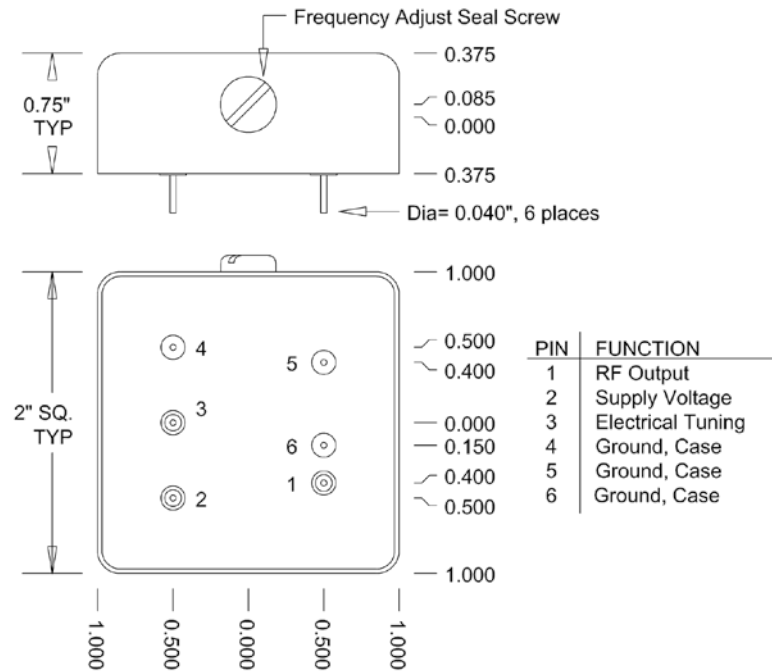
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Package A



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

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500 MHz-SC Sprinter Crystal Oscillator				
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501-27584-xx	-	11-27-13		
Tolerances: (except as noted) Dimensions are in inches	0.XX Dec: ±0.030"	0.XXX Dec: ±0.010"	FSCM: 62821	Page 2 of 2