

**OUTPUT****Frequency**

100 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 -158 dBc/Hz -160 dBc/Hz

10 kHz -175 dBc/Hz -178 dBc/Hz

100 kHz -176 dBc/Hz -180 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**

1.5 x 1.5 x 0.5"

**Connectors / Mounting**

Solder pins on base; Thru-hole PCB mount

**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)

**Electrical Tuning**±4 x 10<sup>-6</sup>, 0 to +10 VDC, negative slope**CRYSTAL****Type**

100 MHz SC-cut

**Acceleration Sensitivity**

Select desired sensitivity

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

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

2: 2e-10 per g, per axis guaranteed

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

**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
11	5	+15V	Premium	A	E
12	5	+15V	Premium	A	F
13	5	+15V	Premium	A	G
21	5	+12V	Standard	A	E
22	5	+12V	Standard	A	F
23	5	+12V	Standard	A	G
31	5	+12V	Premium	A	E
32	5	+12V	Premium	A	F
33	5	+12V	Premium	A	G
41	3	+15V	Standard	A	E
42	3	+15V	Standard	A	F
43	3	+15V	Standard	A	G
51	3	+15V	Premium	A	E
52	3	+15V	Premium	A	F
53	3	+15V	Premium	A	G
61	3	+12V	Standard	A	E
62	3	+12V	Standard	A	F
63	3	+12V	Standard	A	G
71	3	+12V	Premium	A	E
72	3	+12V	Premium	A	F
73	3	+12V	Premium	A	G
81	2	+15V	Standard	A	E
82	2	+15V	Standard	A	F
83	2	+15V	Standard	A	G
91	2	+12V	Standard	A	E
92	2	+12V	Standard	A	F
93	2	+12V	Standard	A	G

**Wenzel Associates, Inc.**

Austin, Texas

Title:

**100 MHz-SC L.O. ULN Series Crystal Oscillator**

P/N:

**501-27585-xx**

Rev:

**-**

Date:

**11-25-13**

Drawn:

Ref:

Tolerances:  
(except as noted)  
Dimensions are in inches

0.XX Dec:

**±0.030"**

0.XXX Dec:

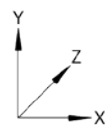
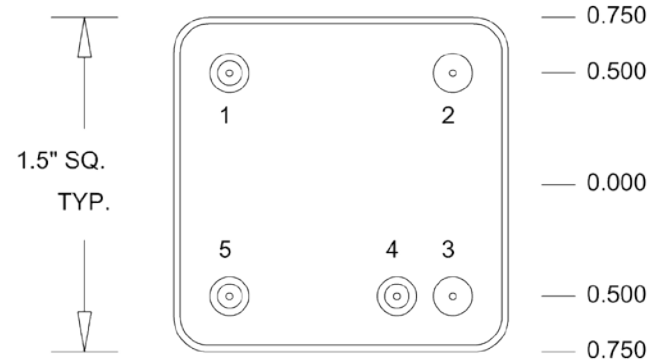
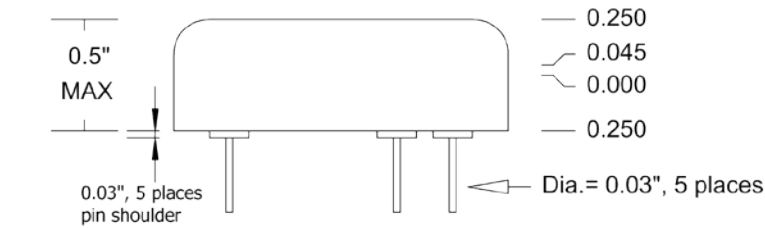
**±0.010"**

FSCM:

**62821**

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Package A



- 0.750
- 0.500
- 0.330
- 0.000
- 0.250
- 0.500
- 0.750

PIN	FUNCTION
1	Supply Voltage
2	Ground, Case
3	Ground, Case
4	RF Output
5	Electrical Tuning

**Wenzel Associates, Inc.**

Austin, Texas

Title:

**100 MHz-SC L.O. ULNII Series Crystal Oscillator**

P/N:

**501-27585-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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