

**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), Static**

	Standard	Premium
100 Hz	-125 dBc/Hz	-130 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: ±5 x 10<sup>-7</sup>, 0° to +50°C (Ref +25°C)F: ±2 x 10<sup>-6</sup>, -20 to +70°C (Ref +25°C)G\*: ±5 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****Dimensions**

1.58 x 1.58 x 0.8"

**Connectors**

SMA(f) and solder pins on side

**Packaging**

Nickel-plated machined aluminum case

**Weight**

&lt; 2 ounces

**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**

≤ 2.5 Watts at +25°C

G\*: ≤ 3 Watts at +25°C

**Supply Voltage**

+15 VDC ±5% or +12 VDC ±5%

**CRYSTAL****Type**

100 MHz SC-cut

**ENVIRONMENTAL****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

**Random Vibration - Test Profile**

0.05 g2 /Hz, 10 to 2000 Hz

**Shock**

40G, 35 msec, sawtooth pulse

**Operating Temperature**

-40° to +71°C

**OTHER****Test Data**

Output level

Phase noise, static

Phase noise under vibration plot

G-sensitivity in 3 axes at 100 Hz

Temperature stability

Harmonics, Spurious

Power – Warm-up and Total

REV	DATE	REVISION RECORD	DWN	AUTH
-	03-19-14	Initial Release	PAC	

## 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 LG I Crystal Oscillator

P/N:

501-27551-xx

Rev:

-

Date:

03-19-14

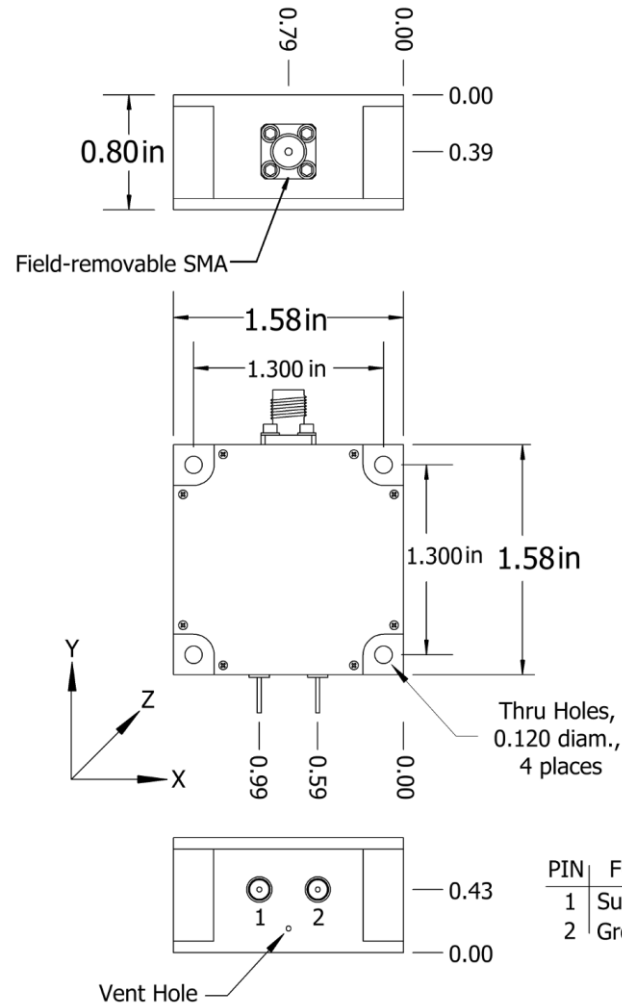
Drawn:

Ref:

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

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Package A



PIN	FUNCTION
1	Supply Voltage
2	Ground, Case

**Wenzel Associates, Inc.**

Austin, Texas

Title: **100 MHz-SC LG I Crystal Oscillator**

P/N: <b>501-27551-xx</b>	Rev.: -	Date: <b>03-19-14</b>	Drawn:	Ref:
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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 <b>2</b> of <b>2</b>
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