

EXTERNAL REFERENCE INPUT**Frequency**

5 MHz

Level

+7 dBm ±6 dB into 50 ohms

OUTPUT**Frequency**

5 MHz

Level

A: +13 dBm ±2 dB (± 3 dB *) into 50 ohms

B: +10 dBm ±2 dB (± 3 dB *) into 50 ohms,
each output**STABILITY, free running****Aging** 5×10^{-10} /day after 24 hours operating 5×10^{-8} /year, second year, typical 3×10^{-8} per year, thereafter**Phase Noise L(f)**

	Standard	Premium
10 Hz	-145 dBc/Hz	-150 dBc/Hz
100 Hz	-158 dBc/Hz	-161 dBc/Hz
1 kHz	-169 dBc/Hz	-172 dBc/Hz
10 kHz	-172 dBc/Hz	-174 dBc/Hz

Temperature StabilityE: $\pm 5 \times 10^{-9}$, 0° to +50°C (Ref +25°C)F: $\pm 1 \times 10^{-8}$, -20° to +70°C (Ref +25°C)G*: $\pm 1 \times 10^{-7}$, -55° to +85°C (Ref +25°C)**SPECTRAL PURITY****Harmonics**

≤ -30 dBc

PLL Divider Products

≤ -50 dBc

Non-Harmonic Spurious≤ -80 dBc, excluding power
supply line related spurs**MECHANICAL****Packaging**

Nickel-Plated Machined Aluminum Case

Dimensions

2.5" x 3.5" x 0.8"

A: Single Output

B: Dual output

Connectors

RF Input/Output: SMA(f)

Power, Monitoring: Feed Thru Terminals

GND: Ground Turret

POWER REQUIREMENTS**Supply Voltage**

+15 VDC ±5% or +12 VDC ±5%

Warm-Up Power

≤ 6 Watts for 5 minutes at +25°C

G* ≤ 8 Watts for 5 minutes at +25°C

Total Power

≤ 2.5 Watts at +25°C

G* ≤ 4 Watts at +25°C

ADJUSTMENT**Loop BW**

Type 2 Loop

Target Bandwidth: ≤ 10 Hz

CRYSTAL**Type**

5 MHz SC-cut

PHASE LOCK STATUS**Phase Lock Alarm (ALM)**

Locked: +3.5 VDC to +5.2 VDC (Hi)

Out-of-Lock: +0.8 VDC max (Lo)

Phase Voltage Monitor (ΦV)

Electrical tuning monitor pin provided

REV	DATE	REVISION RECORD	DWN	AUTH
-	02-05-14	Initial Release	CB	PAC

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
05	+15V	Standard	B	E
06	+15V	Standard	B	F
07	+15V	Standard	B	G
11	+15V	Premium	A	E
12	+15V	Premium	A	F
13	+15V	Premium	A	G
15	+15V	Premium	B	E
16	+15V	Premium	B	F
17	+15V	Premium	B	G
21	+12V	Standard	A	E
22	+12V	Standard	A	F
23	+12V	Standard	A	G
25	+12V	Standard	B	E
26	+12V	Standard	B	F
27	+12V	Standard	B	G
31	+12V	Premium	A	E
32	+12V	Premium	A	F
33	+12V	Premium	A	G
35	+12V	Premium	B	E
36	+12V	Premium	B	F
37	+12V	Premium	B	G

Wenzel Associates, Inc.

Austin, Texas

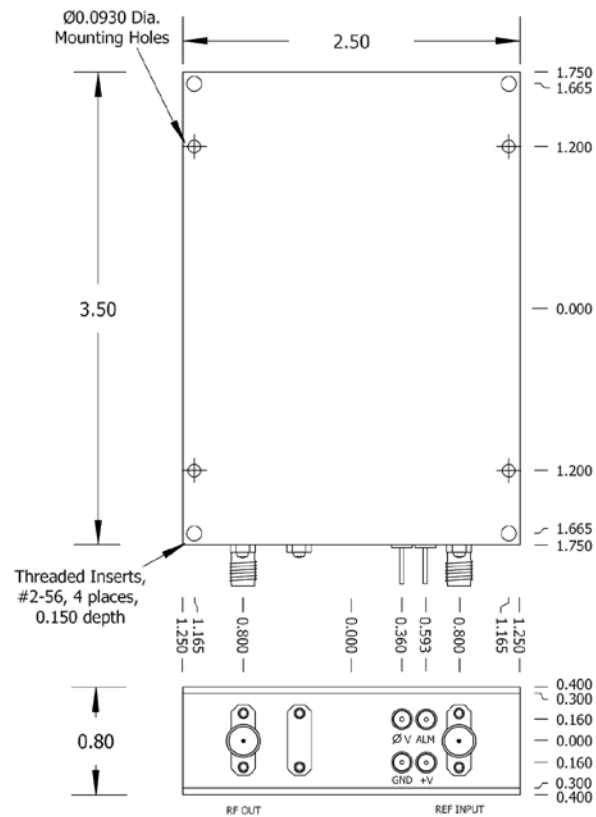
Title:

**5 MHz-SC Phase Lock Crystal Oscillator V2
(LBW=10Hz)**

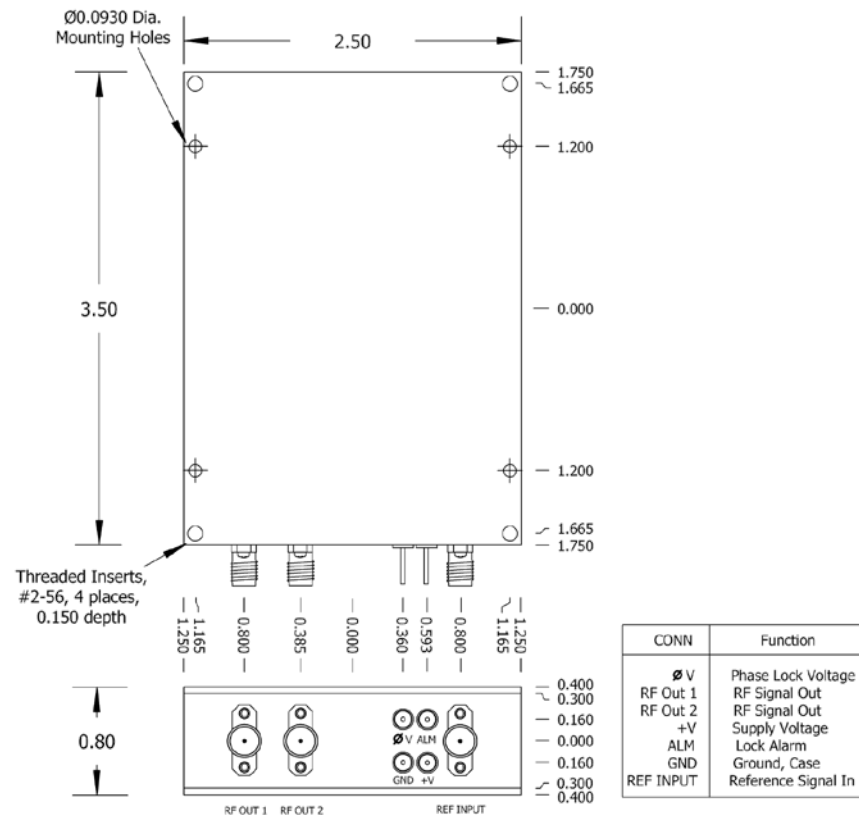
P/N: 501-27593-xx	Rev: -	Date: 02-05-14	Drawn:	Ref: ULN
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Tolerances: (except as noted) Dimensions are in inches	0.XX Dec: ±0.030"	0.XXX Dec: ±0.010"	FSCM: 62821	Page 1 of 2
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Package A



Package B



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Austin, Texas

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(LBW=10Hz)**

P/N: **501-27593-xx** Rev: **-** Date: **02-05-14** Drawn: Ref: **ULN**

Tolerances:
(except as noted)
Dimensions are in inches

0.XX Dec:
±0.030"

0.XXX Dec:
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FSCM:
62821

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