

EXTERNAL REFERENCE INPUT

Input Frequency

5 or 10 MHz, ± 2 ppm

Input Level

+7 dBm ± 6 dB into 50 ohms

OUTPUT

Output Frequency

5 MHz

Output Level

+13 dBm ± 2 dB into 50 ohms

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	-136 dBc/Hz	-141 dBc/Hz
100 Hz	-156 dBc/Hz	-161 dBc/Hz
1 kHz	-160 dBc/Hz	-163 dBc/Hz
10 kHz	-160 dBc/Hz	-163 dBc/Hz

Temperature Stability

E: $\pm 5 \times 10^{-9}$, 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

Solder sealed steel can

Dimensions

1.75" x 2.94" x 0.6" housing

2.25" x 3.40" footprint with brackets

Connectors

RF Input/Output: SMA(f)

Power, Monitoring: Feed Thru Solder Pins

GND: Ground Turret

POWER REQUIREMENTS

Supply Voltage

+15 VDC $\pm 5\%$ or +12 VDC $\pm 5\%$

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: ≤ 1 Hz

CRYSTAL

Type

5 MHz SC-cut

PHASE LOCK STATUS

Phase Lock Alarm (Pin 5)

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

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

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
11	+15V	Premium	A	E
12	+15V	Premium	A	F
13	+15V	Premium	A	G
21	+12V	Standard	A	E
22	+12V	Standard	A	F
23	+12V	Standard	A	G
31	+12V	Premium	A	E
32	+12V	Premium	A	F
33	+12V	Premium	A	G

Wenzel Associates, Inc.

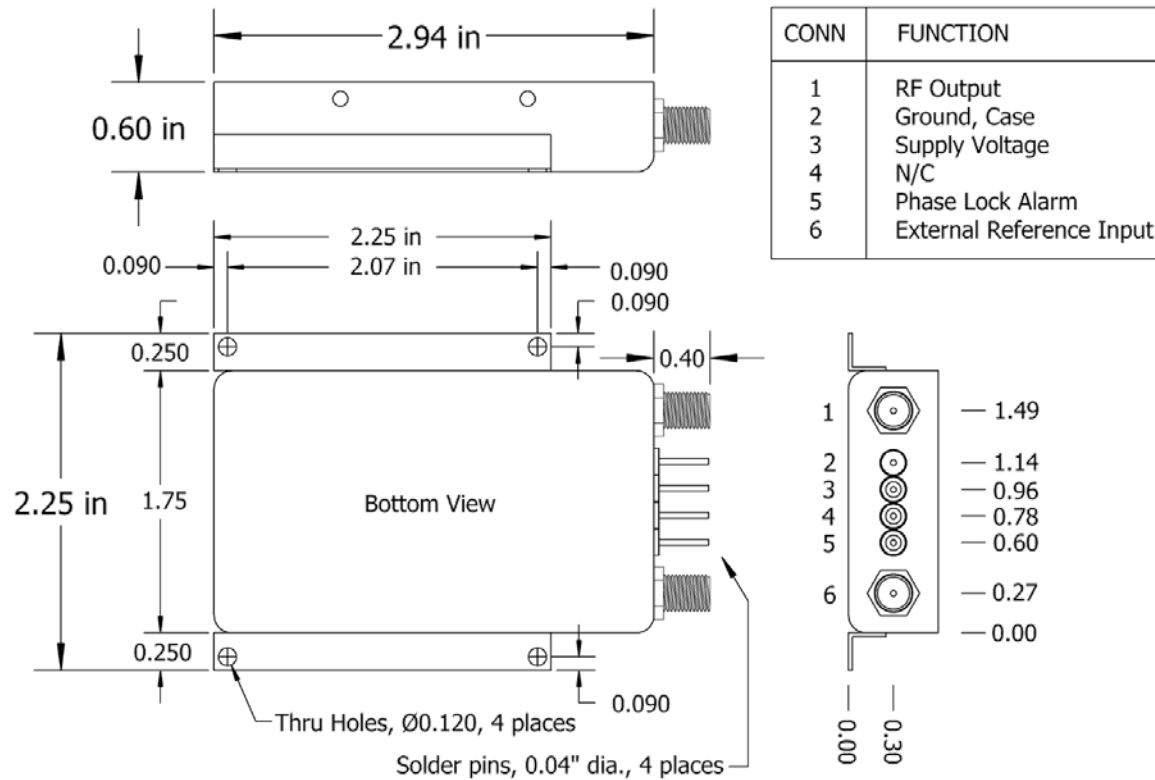
Austin, Texas

Title:

5 MHz-SC Phase Lock Crystal Oscillator V1 (LBW=1Hz)

P/N: 501-27586-xx	Rev: -	Date: 02-05-14	Drawn:	Ref: STD
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



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Austin, Texas

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(LBW=1Hz)**

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501-27586-xx

Rev:

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Tolerances:
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FSCM:
62821

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