

EXTERNAL REFERENCE INPUT**Input Frequency**5 or 10 MHz, ± 2 ppm**Input Level**+7 dBm ± 6 dB into 50 ohms**OUTPUT****Output Frequency**

10 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	-130 dBc/Hz	-135 dBc/Hz
100 Hz	-150 dBc/Hz	-155 dBc/Hz
1 kHz	-160 dBc/Hz	-163 dBc/Hz
10 kHz	-160 dBc/Hz	-163 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**

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°CG* ≤ 8 Watts for 5 minutes at +25°C**Total Power** ≤ 2.5 Watts at +25°CG* ≤ 4 Watts at +25°C**ADJUSTMENT****Loop BW**

Type 2 Loop

Target Bandwidth: ≤ 1 Hz**CRYSTAL****Type**

10 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:

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

P/N:

501-27587-xx

Rev:

-

Date:

02-05-14

Drawn:

Ref:

STD

Tolerances:
(except as noted)
Dimensions are in inches

0.XX Dec:

 ± 0.030 "

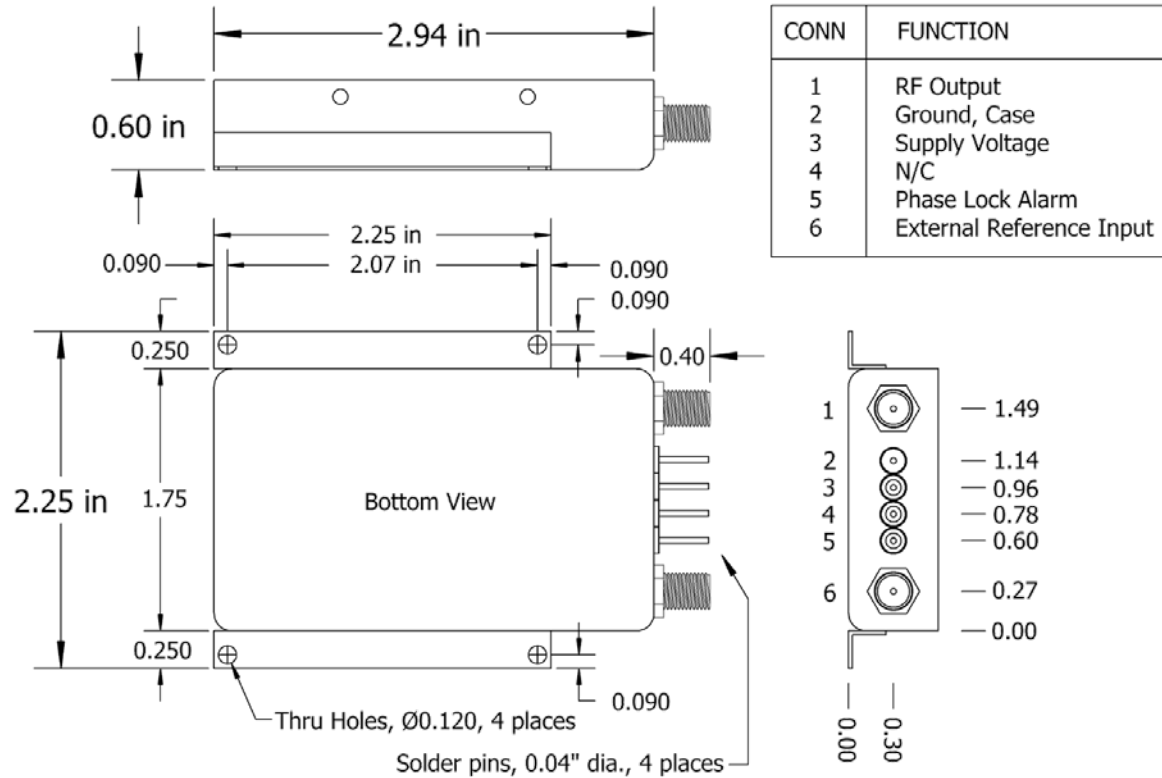
0.XXX Dec:

 ± 0.010 "

FSCM:

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Package A



Wenzel Associates, Inc.

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