

**INPUT****Frequency**5 MHz,  $\pm 5 \times 10^{-7}$ **Level**+7 dBm  $\pm 5$  dB into 50 Ohms**OUTPUT****Frequency**

5 MHz, dual output

**Level**+10 dBm  $\pm 2$  dB into 50 ohms**STABILITY****Output Phase Noise L(f)****Free-Running**

1 Hz	-115 dBc/Hz
10 Hz	-145 dBc/Hz
100 Hz	-165 dBc/Hz
1 kHz	-170 dBc/Hz
10 kHz	-172 dBc/Hz

**Aging** $\pm 2.5 \times 10^{-8}$  per year after 90 days operating, typical**Temperature Stability** $\pm 1 \times 10^{-8}$  free-running from 0 to +50°C, (Ref. +25°C)**Harmonics**

-30 dBc

**Sub-Harmonics and Products**

-50 dBc

**Non-Harmonic Spurious**

-70 dBc

**Phase Lock Alarm**

TTL

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

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

**Phase Lock Voltage Monitor**

Voltage monitor pin supplied

**MECHANICAL****Dimensions**

2.5 x 3.5 x 0.8"

**Connectors**SMA's and solder pins on side  
Feed-thru terminals for lock alarm,  
supply and phase lock voltage  
monitor**Packaging**

Machined aluminum housing

**Mounting**

Shock mount patterns on sides

Thru holes, 4 places

Threaded inserts on base, 4 places

**POWER REQUIREMENTS****Supply Voltage**+15 VDC  $\pm 5\%$ **Warm-Up Power**10 Watts at start-up for 5 minutes  
at +25°C**Total Power**

6 Watts at steady state +25°C

**ADJUSTMENT****Loop BW**

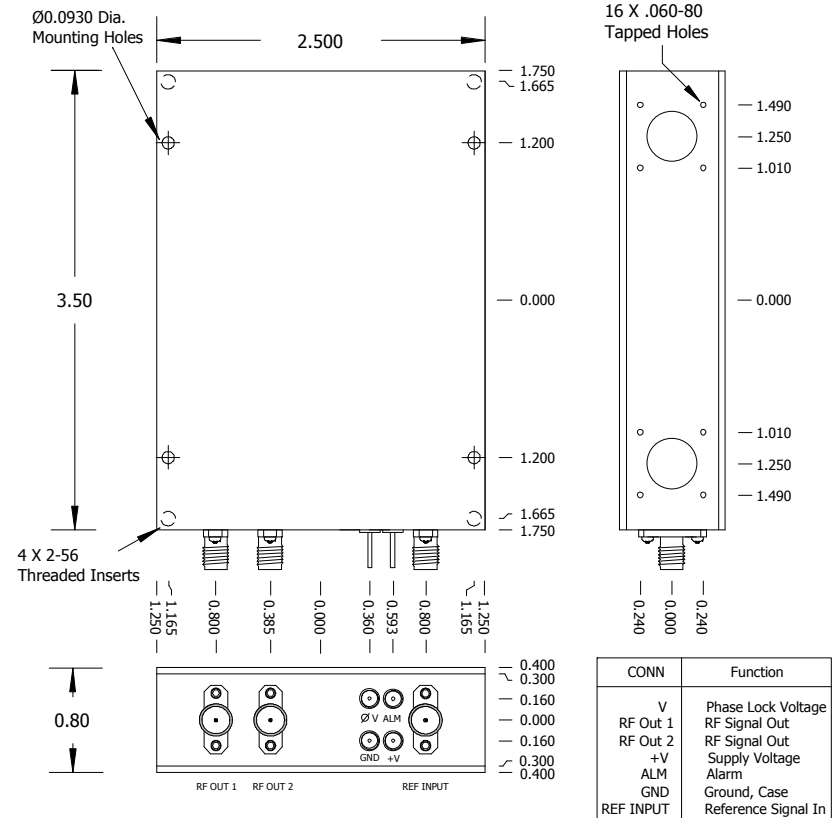
Target Bandwidth: &lt; 1 Hz

Type 2 Loop,

< 5 minutes to  $\pm 1 \times 10^{-9}$  of input**CRYSTAL****Type**

SC-cut

REV	DATE	REVISION RECORD	DWN	AUTH
-	12-06-02	Draft	Liz	LR
A	05-15-03	Updated Drawing	PAC	
B	11-11-04	Connectors, Drawing	SS	DC
C	01-10-05	Warm-Up and Total Power, Pin Dimensions	SS	LR

**Wenzel Associates, Inc.**

Austin, Texas

Title:

**5 MHz-SC Dual Output Phase Lock Crystal Oscillator**

P/N:

**501-10226**

Rev:

**C**

Date:

**01-10-05**

Drawn:

Ref:

Tolerances:  
(except as noted)  
Dimensions are in inches

0.XX Dec:

 **$\pm 0.030$ "**

0.XXX Dec:

 **$\pm 0.010$ "**

FSCM:

**62821**

Page 1 of 1