

## INPUT

### Frequency

1 MHz to 25 MHz, please specify fixed frequency and verify with factory

### Level

+7 dBm  $\pm$ 3 dB into 50 ohms

## OUTPUT

### Frequency

48 MHz to 260 MHz, please specify fixed frequency and verify with factory

### Level

+13 dBm  $\pm$ 2 dB into 50 ohms

## STABILITY

### Output Phase Noise (Free Running, typical)

100 Hz -125 dBc/Hz\*

1 kHz -153 dBc/Hz\*

10 kHz -170 dBc/Hz\*

\*will be 6 dB of degradation if multiplied

### Aging

$\pm 1 \times 10^{-6}$  per year after 30 days operating year 1, typical

$\pm 5 \times 10^{-7}$  per year thereafter

### Temperature Stability

$\pm 5 \times 10^{-7}$  free-running from 0 to +50°C, (Ref. +25°C)

## Harmonics

-30 dBc

## Sub-Harmonics and Products

-60 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

Rail voltage monitor pin supplied

## POWER REQUIREMENTS

### Supply Voltage

+15 VDC

### Warm-Up Power

7 Watts at start-up for 5 minutes at 25°C

### Total Power

4 Watts at steady state +25°C

## ADJUSTMENT

### Loop BW

Factory Set, Type 2 Loop, please specify target loop bandwidth

## CRYSTAL

### Type

48 - 130 MHz SC-cut

## MECHANICAL

### Dimensions

2.5 x 3.5 x 0.8"

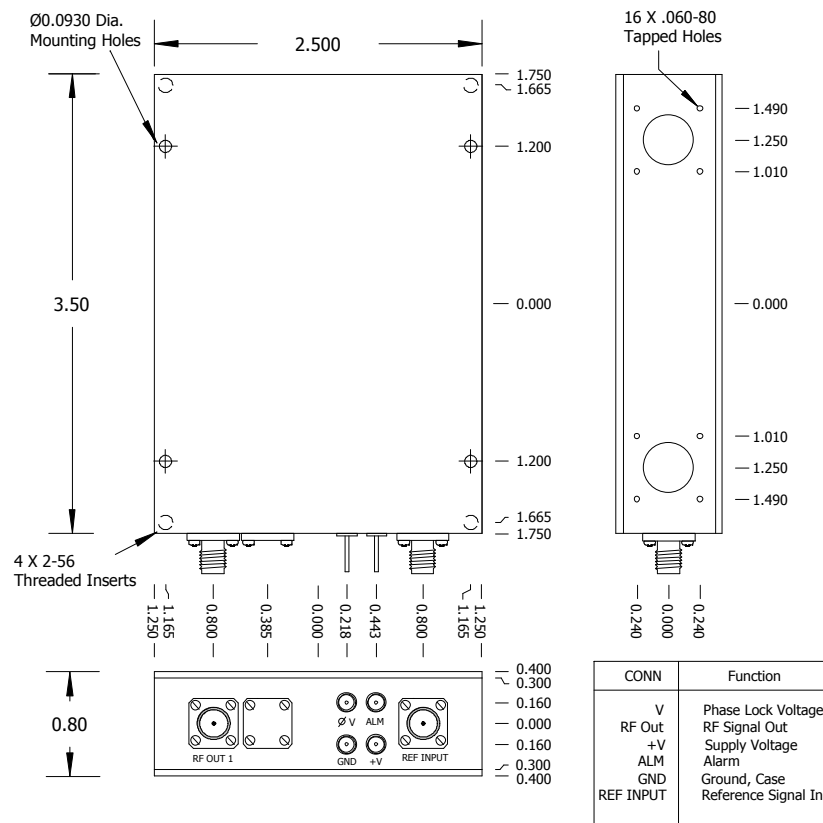
### Connectors

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

### Packaging

Machined aluminum housing

REV	DATE	REVISION RECORD	DWN	AUTH
-	10-29-99	Draft	KP	KW
A	04-07-03	Freq., Phase Noise, Aging, Loop BW, Crystal Type	SS	LR
B	05-16-03	New drawing, factory verification on frequency	SS	LR
C	12-09-03	Frequency	BB	



**Wenzel Associates, Inc.**

Austin, Texas

Title:

**48 to 260 MHz-SC Phase Lock Crystal Oscillator**

P/N:

**501-07641**

Rev:

**C**

Date:

**12-09-03**

Drawn:

Ref:

500-07302

Tolerances:  
(except as noted)  
Dimensions are in inches

0.XX Dec:

**$\pm 0.030$ "**

0.XXX Dec:

**$\pm 0.010$ "**

FSCM:

**62821**

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