

## OUTPUT

### Frequency

10 MHz

### Level

+13 ±2dBm into 50 ohms

## STABILITY

### Aging

$1 \times 10^{-10}$  per day

after 30 days operating, typical

$2.5 \times 10^{-10}$  per day at time of shipment

### Phase Noise L(f)

1 Hz -113 dBc/Hz

10 Hz -143 dBc/Hz

100 Hz -160 dBc/Hz

1 kHz -168 dBc/Hz

10 kHz -170 dBc/Hz

## Subharmonics

< -40 dBc guaranteed,

< -50 dBc typical

## Temperature Stability

$\pm 5 \times 10^{-10}$ , 0° to +60°C

## MECHANICAL

### Dimensions

4 x 3 x 2"

### Connectors

SMA and feedthru capacitor

### Packaging

Machined aluminum enclosure case

Nickel plated per MIL-C-26074

## POWER REQUIREMENTS

### Warm-Up Power

10 Watts for 30 minutes

### Total Power

5 Watts at +25°C

### Supply Voltage

+15 VDC

## ADJUSTMENT

### Mechanical Tuning

$\pm 1 \times 10^{-6}$

### Electrical Tuning

$\pm 2 \times 10^{-7}$ , ±5 VDC

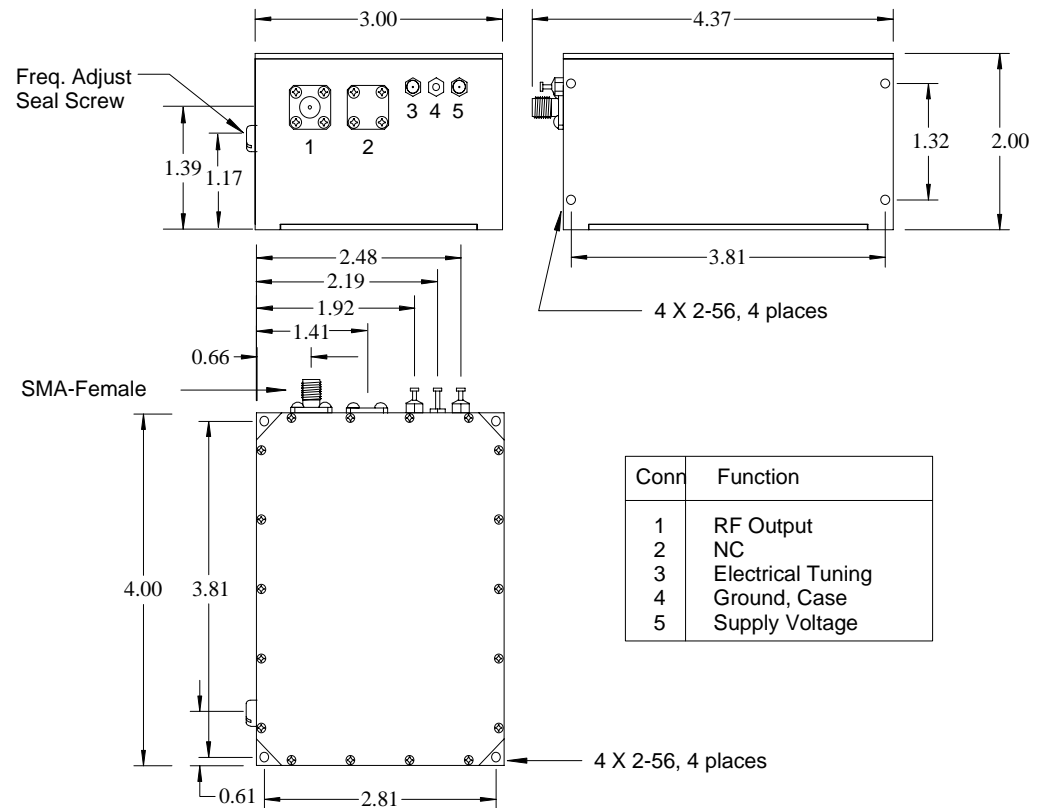
Negative slope

## CRYSTAL

### Type

5 MHz SC-cut

REV	DATE	REVISION RECORD	DWN	AUTH
-	12-14-99	Draft	KP	
A	06-21-01	Mechanical tuning height	KW	JR
B	03-27-03	Changed Freq Adj Screw on Drawing	SS	
C	06-17-04	Corrected drawing	SS	
D	02-11-05	Corrected drawing	SS	ML
E	02-18-05	Phase noise	SS	LR



Connector numbers are for reference only.  
They may not appear on unit.



**Wenzel Associates, Inc.**

Austin, Texas

Title:

**Prem. 10 MHz-SC (5x2) Blue Top Ultra Low Noise Osc.**

P/N:

**501-07689**

Rev:

**E**

Date:

**02-18-05**

Drawn:

Ref:

501-07130

Tolerances:  
(except as noted)  
Dimensions are in inches

0.XX Dec:

**±0.030"**

0.XXX Dec:

**±0.010"**

FSCM:

**62821**

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