

**OUTPUT****Frequency**

2 GHz

**Level**

+13 dBm ±2 dBm, into 50 ohms

**STABILITY****Aging**

1 x 10<sup>-6</sup> per year, first year  
after 30 days operating, typical

**Phase Noise L(f)**

100 Hz -100 dBc/Hz  
1 KHz -128 dBc/Hz  
10 KHz -144 dBc/Hz  
20 KHz -144 dBc/Hz

**Temperature Stability**±5 x 10<sup>-7</sup>, 0° to +50°C (Ref +25°C)**Harmonics,**

≤-25 dBc

**Sub-Harmonics**

≤-50 dBc

**Spurious**

≤ -80 dBc, excluding power  
supply line related spurs

**MECHANICAL****Dimensions**

3.21 x 4 x 1"

**Connectors**

SMA and solder pins

**Packaging**

Machined aluminum housing – J2

**POWER REQUIREMENTS****Warm-Up Power**

≤12 Watts for 5 minutes

**Total Power**

≤10 Watts at +25°C

**Supply Voltage**

+15 VDC

**ADJUSTMENT****Mechanical Tuning**±4 x 10<sup>-6</sup>**Electrical Tuning**±5 x 10<sup>-7</sup>, 0 to +10 VDC

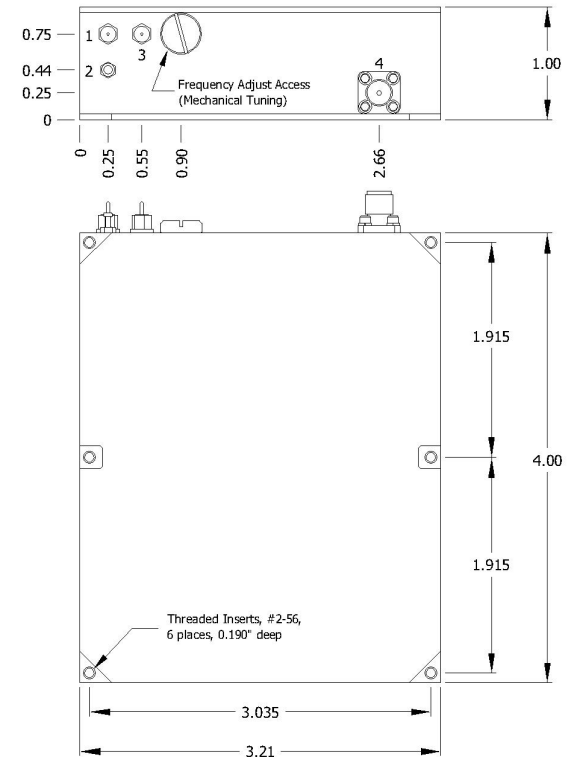
Negative slope

**CRYSTAL****Type**

100 MHz SC-cut, w/ x20 stage

REV	DATE	REVISION RECORD	DWN	AUTH
-	06-19-09	Draft	VG	
A	05-11-10	Updated mechanical outline	VG	JR

J2 MXO Connections	
Connector	Function
1	Supply Voltage
2	Ground, Case
3	Electrical Tuning
4	RF Output

**Wenzel Associates, Inc.**

Austin, Texas

Title:

**2 GHz Multiplied Crystal Oscillator (MXO)**

P/N:

**501-21112**

Rev:

**A**

Date:

**05-11-10**

Drawn:

Ref:

Tolerances:  
(except as noted)  
Dimensions are in inches

0.XX Dec:

±0.030"

0.XXX Dec:

±0.015"

FSCM:

62821

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