

OUTPUT**Frequency**

10.24 GHz

Level+13 dBm ± 2 dB into 50 ohms**STABILITY****Aging (free-running)** 1×10^{-6} first year

after 30 days operating, typical

 5×10^{-7} second year, typical 3×10^{-7} per year thereafter, typical**Phase Noise L(f), typical**

100 Hz -87 dBc/Hz

1 KHz -112 dBc/Hz

10 KHz -129 dBc/Hz

100 KHz -130 dBc/Hz

Temperature Stability $\pm 5 \times 10^{-7}$, 0 to +50°C (Ref. +25°C)**Harmonics**

-25 dBc

Sub-Harmonics

-60 dBc

Spurious-80 dBc, excluding power
supply line related spurs**MECHANICAL****Dimensions**

4.16 x 4.00 x 1"

Connectors

SMA(f)'s and solder pins on side

PackagingNickel-plated machined
aluminum housing – J3**Mounting**Threaded inserts on base,
#2-56, 6 places**POWER REQUIREMENTS****Warm-Up Power** ≤ 17 Watts for 5 minutes**Total Power** ≤ 13.5 Watts at +25°C**Supply Voltage**+15 VDC $\pm 5\%$ **ADJUSTMENT****Mechanical Tuning** $\pm 4 \times 10^{-6}$ **Electrical Tuning** $\pm 5 \times 10^{-7}$, ± 5 VDC

Negative slope

CRYSTAL**Type**

80 MHz SC-cut (x128)

OTHER**Label**Use conventional label with the
following information:

501-25412 (Current Rev.)

10.24 GHz MXO-FR

+15 VDC

Serial # - Date Code

(Mark connectors with function)

Test Data

Output Level

Phase Noise – free-running

Temperature Stability – free-running

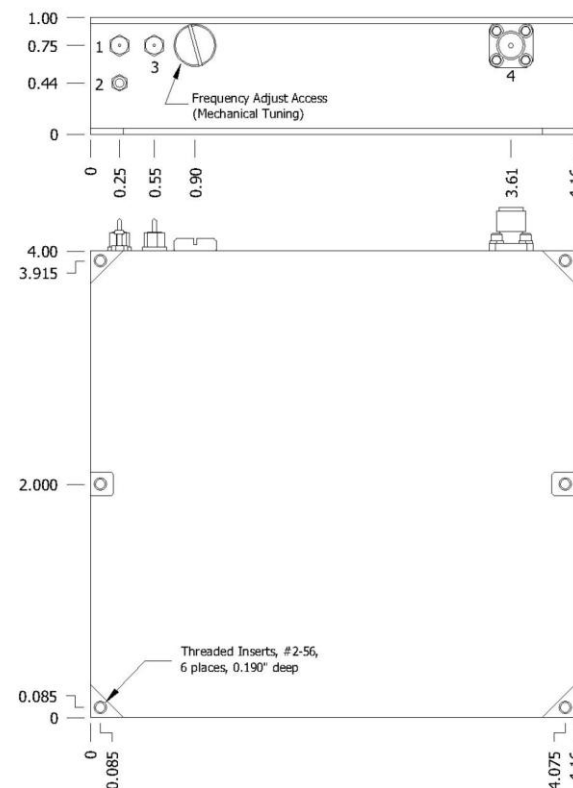
Harmonics, Subs, Spurious

Power – Warm-up and Total

Tuning – MT and ET

REV	DATE	REVISION RECORD	DWN	AUTH
-	01-26-12	Initial Release	PAC	

J3 MXO Connections	
Connector	Function
1	Supply Voltage
2	Ground, Case
3	Electrical Tuning
4	RF Output

**Wenzel Associates, Inc.**

Austin, Texas

Title:

10.24 GHz Multiplied Crystal Oscillator (MXO-FR)

P/N:

501-25412

Rev:

-

Date:

01-26-12

Drawn:

Ref:

Tolerances:
(except as noted)
Dimensions are in inches

0.XX Dec:

 ± 0.030

0.XXX Dec:

 ± 0.010

FSCM:

62821

Page 1 of 1