

OUTPUT**Frequency**

500 MHz

Level

+13 dBm ±2 dB into 50 ohms

STABILITY**Aging**1 x 10⁻⁶ per year after 30 days operating, typical**Phase Noise L(f), typical**

100 Hz -115 dBc/Hz

1 KHz -142 dBc/Hz

10 KHz -158 dBc/Hz

100 KHz -158 dBc/Hz

Temperature Stability±5 x 10⁻⁷ 0 to +50°C

(Ref. +25°C)

Harmonics

≤-25 dBc

Sub-Harmonics and Products

≤-50 dBc

Spurious (Excluding power supply line related)

-70 dBc

MECHANICAL**Dimensions**

2.25 x 4.00 x 1"

Connectors

SMA(f) and solder pins on side

Packaging

Machined aluminum housing – J1

Mounting

Threaded inserts on base, 6 places

POWER REQUIREMENTS**Warm-Up Power**

≤8 Watts for 5 minutes

Total Power

≤ 7 Watts at +25°C

Supply Voltage

+15 VDC ±5%

ADJUSTMENT**Mechanical Tuning**±4 x 10⁻⁶**Electrical Tuning**±5 x 10⁻⁷, 0 to +10 VDC

Negative slope

CRYSTAL**Type**

100 MHz SC-cut with a x5 stage

OTHER**Test Data**

Output Level

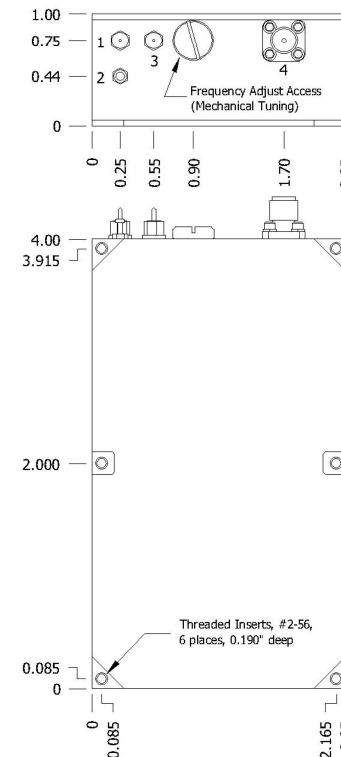
Phase Noise

Harmonics, Subs

Power – Warm-up and Total

REV	DATE	REVISION RECORD	DWN	AUTH
-	06-11-09	Initial Release	VG	
A	08-02-10	Revised mechanical outline	VG	JH

J1 MXO Connections	
Connector	Function
1	Supply Voltage
2	Ground, Case
3	Electrical Tuning
4	RF Output

**Wenzel Associates, Inc.**

Austin, Texas

Title:

500 MHz Multiplied Crystal Oscillator (MXO)

P/N:

501-21084

Rev:

A

Date:

08-02-10

Drawn:

Ref:

Tolerances:
(except as noted)
Dimensions are in inches0.XX Dec:
±0.030"0.XXX Dec:
±0.010"FSCM:
62821

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