OUTPUT A
Frequency
  100 MHz
Level
  +13 dBm ±2 dB into 50 ohms
Phase Noise L(f), Static
  100 Hz   -130 dBc/Hz
  1 kHz   -158 dBc/Hz
  10 kHz   -173 dBc/Hz
  100 kHz   -175 dBc/Hz
OUTPUT B
Frequency
  2 GHz
Level
  +13 dBm ±2 dB into 50 ohms
Phase Noise L(f), Static
  100 Hz   -102 dBc/Hz
  1 KHz   -129 dBc/Hz
  10 KHz   -146 dBc/Hz
  100 KHz   -147 dBc/Hz
STABILITY
Aging
  1×10^{-6} first year
  after 30 days operating, typical
  5×10^{-7} second year, typical
  3×10^{-7} per year thereafter, typical
Temperature Stability
  $\pm 5 \times 10^{-7}$, 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(f) and solder pins
Packaging
  Nickel-plated machined
  aluminum housing – J2-03
Mounting
  Threaded inserts on base,
  #2-56, 6 places

POWER REQUIREMENTS
Warm-Up Power
  ≤ 12.5 Watts for 5 minutes
Total Power
  ≤ 9 Watts at +25°C
Supply Voltage
  +15 VDC ±5%
ADJUSTMENT
Mechanical Tuning
  $\pm 4 \times 10^{-6}$
Electrical Tuning
  $\pm 5 \times 10^{-7}$, ±5 VDC
  Negative slope
CRYSTAL
Type
  100 MHz SC-cut (x20)
OTHER
Label
  Use conventional label with the
  following information:
  501-25472 (Current Rev.)
  100M/2G MXO-FR
  +15 VDC
  Serial # - Date Code
  (Mark connectors with function)
Test Data
  Output Level
  Phase Noise – Static
  Temperature Stability
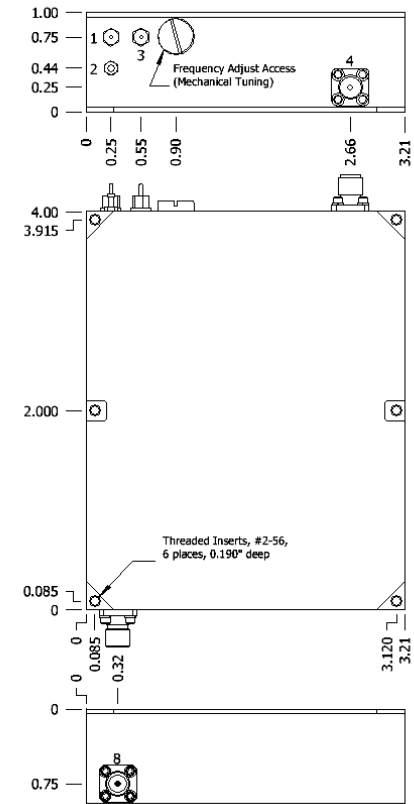 Harmonics, Subs, Spurious
  Power - Warm-up and Total
  Tuning – MT and ET

REV	DATE	REVISION RECORD	DWN	AUTH
-	06-15-12	Initial Release	PAC	

J2-03 MXO Connections	
Connector	Function
1	Supply Voltage
2	Ground, Case
3	Electrical Tuning
4	RF Output B
8	RF Output A

Wenzel Associates, Inc.
Austin, Texas

Title:
100 MHz & 2 GHz
Multiplied Crystal Oscillator (MXO-FR)

P/N: 501-25472	Rev: -	Date: 06-15-12	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