

OUTPUT**Frequency**

500 MHz

Level

+13 dBm ±2 dB into 50 ohms

STABILITY**Aging**

1 x 10⁻⁶ first year
 after 30 days operating, typical
 5 x 10⁻⁷ second year, typical
 3 x 10⁻⁷ per year thereafter, typical

Phase Noise L(f), dBc/Hz

100 Hz -121 dBc/Hz
 1 KHz -146 dBc/Hz
 10 KHz -167 dBc/Hz
 100 KHz -170 dBc/Hz

Temperature Stability±5 x 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**

3.25 x 4 x 1"

Connectors

SMA(f) and solder pins

Packaging

Nickel-plated machined aluminum housing – G1

Mounting

Threaded inserts on base, #2-56, 6 places

POWER REQUIREMENTS**Warm-Up Power**

≤ 13 Watts for 5 minutes

Total Power

≤ 10 Watts at +25°C

Supply Voltage

+15 VDC ±5%

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

Negative slope

CRYSTAL**Type**

100 MHz SC-cut (x5)

Label

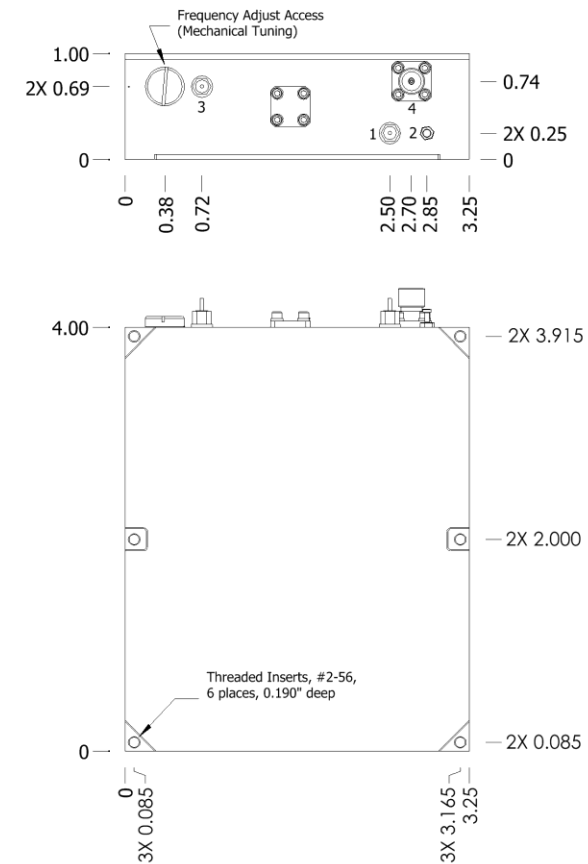
Use conventional label with the following information:
 501-34582 (Current Rev.)
 500 MHz GMXO-FR
 +15 VDC
 Serial # - Date Code
 (Mark connectors with function)

Test Data

Output Level
 Phase Noise
 Temperature Stability
 Harmonics, Subs, Spurious
 Power – Warm-up and Total
 Tuning – MT and ET

1REV	DATE	REVISION RECORD	DWN	AUTH
-	05-03-22	Initial Release	MJG	

G1 Connections	
Connector	Function
1	Supply Voltage
2	Ground, Case
3	Electrical Tuning
4	RF Output

**Wenzel Associates, Inc.**

Austin, Texas

Title:
**500 MHz Golden Multiplied Crystal Oscillator
 (GMXO-FR)**

P/N: 501-34582	Rev: -	Date: 05-03-22	Drawn:	Ref: 26838
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Tolerances: (except as noted) Dimensions are in inches	0.XX Dec: ±0.030"	0.XXX Dec: ±0.010"	FSCM: 62821	Page 1 of 1
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