

OUTPUT

Frequency

500 MHz

Level

+16 dBm ± 2 dB into 50 ohms

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

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

$\pm 5 \times 10^{-7}$, 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

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 $\pm 5\%$

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 (x5)

Label

Use conventional label with the
following information:

501-26838 (Current Rev.)

500 MHz GMXO-FR

+15 VDC

Serial # - Date Code

(Mark connectors with function)

Test Data

Output Level

Phase Noise

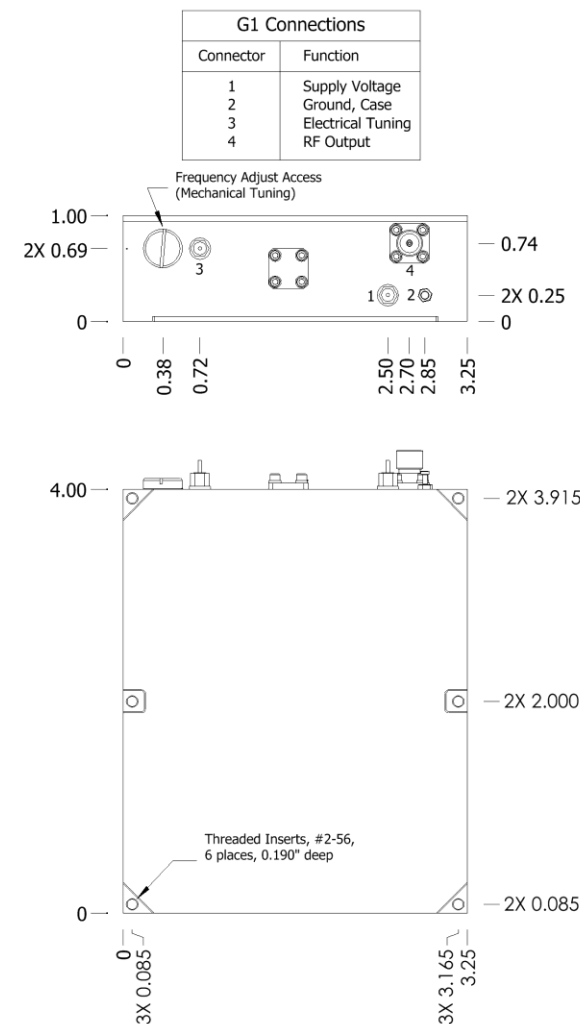
Temperature Stability

Harmonics, Subs, Spurious

Power – Warm-up and Total

Tuning – MT and ET

REV	DATE	REVISION RECORD	DWN	AUTH
-	05-17-13	Initial Release	PAC/L	
A	02-06-14	Output Level to +16 dBm	PAC	JH



Wenzel Associates, Inc.

Austin, Texas

Title:

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

P/N:

501-26838

Rev:

A

Date:

02-06-14

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