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	-172 dBc/Hz
1 MHz	-178 dBc/Hz
10 MHz	-180 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

4.21 x 4 x 1”

Connectors

SMA(f) and solder pins

Packaging

Nickel-plated machined aluminum housing – G2

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

$\pm 4 \times 10^{-6}$

Electrical Tuning

$\pm 5 \times 10^{-7}$, ±5 VDC

Negative slope

CRYSTAL

Type

100 MHz SC-cut (x5 w/SAW)

Label

Use conventional label with the following information:

501-27189 (Current Rev.)

500 MHz GMXO-FR

+15 VDC

Serial # - Date Code

(Mark connectors with function)

Test Data

Output Level

Phase Noise

Temperature Stability

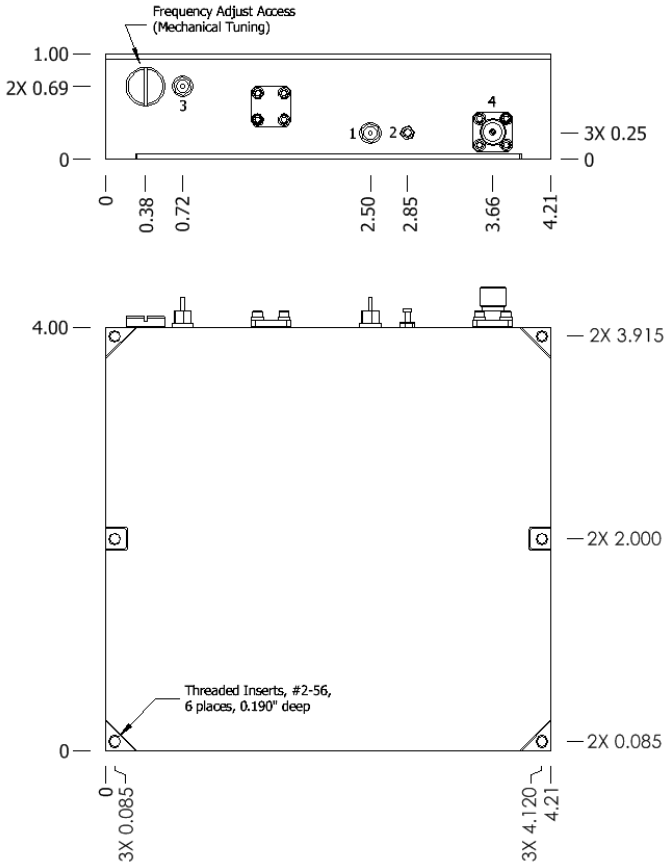
Harmonics, Subs, Spurious

Power – Warm-up and Total

Tuning – MT and ET

REV	DATE	REVISION RECORD	DWN	AUTH
-	09-17-13	Initial Release	Liz	
A	02-06-14	Output Level to +16 dBm	PAC	

G2 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) with SAW

P/N:	Rev:	Date:	Drawn:	Ref:
501-27189	A	02-06-14		

Tolerances: (except as noted) Dimensions are in inches	0.XX Dec:	0.XXX Dec:	FSCM:	Page 1 of 1
	±0.030”	±0.010”	62821	