

OUTPUT

Frequency

200 MHz

Level

+13 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 -126 dBc/Hz
1 KHz -154 dBc/Hz
10 KHz -173 dBc/Hz
100 KHz -175 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

≤ 8 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 (x2)

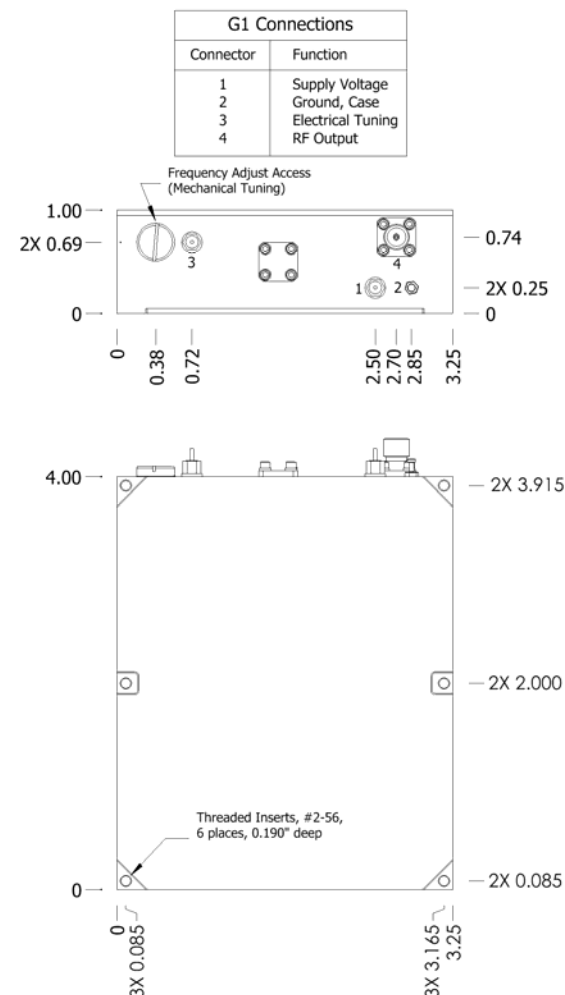
Label

Use conventional label with the
following information:
501-26943 (Current Rev.)
200 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
-	06-20-13	Initial Release	PAC	JR
A	02-06-14	Output Level to +16 dBm; WU Pwr to 13	PAC	
B	02-21-15	Output Level to +13 dBm; 100 kHz to -175	PAC	MG



Wenzel Associates, Inc.

Austin, Texas

Title:
**200 MHz Golden Multiplied Crystal Oscillator
(Golden MXO-FR)**

P/N: 501-26943	Rev: B	Date: 01-21-15	Drawn:	Ref:
Tolerances: (except as noted) Dimensions are in inches		0.XX Dec: ± 0.030"	0.XXX Dec: ± 0.010"	FSCM: 62821