

OUTPUT**Frequency**

160 MHz

Level

+16 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, typical3 x 10⁻⁷ per year thereafter, typical**Phase Noise L(f)**

100 Hz -125 dBc/Hz

1 KHz -153 dBc/Hz

10 KHz -172 dBc/Hz

100 KHz -176 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

≤ 8 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**

80 MHz SC-cut (x2)

Label

Use conventional label with the following information:

501-27173 (Current Rev.)

160 MHz GMXO-FR

+15 VDC

Serial # - Date Code

(Mark connectors with function)

Test Data

Output Level

Phase Noise

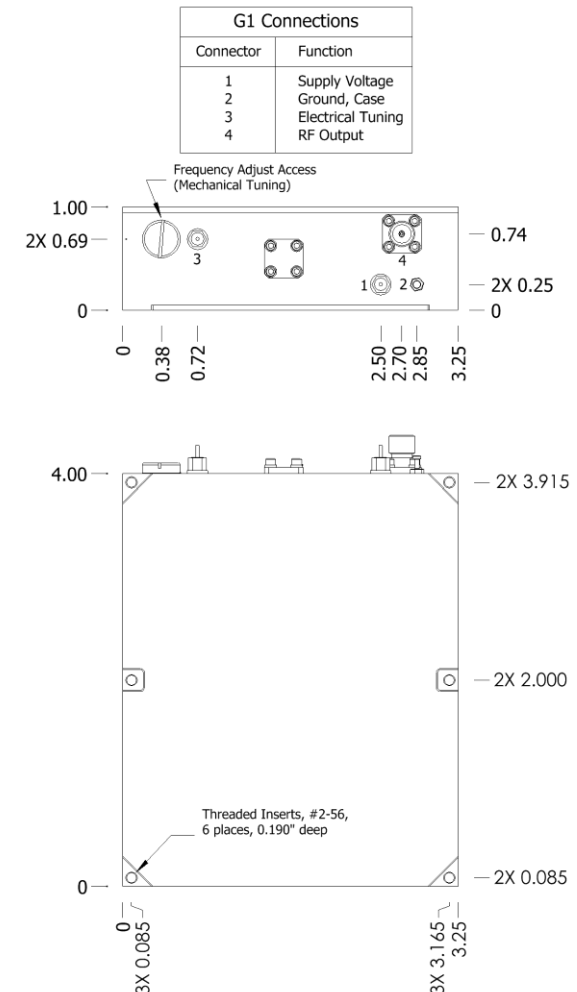
Temperature Stability

Harmonics, Subs, Spurious

Power – Warm-up and Total

Tuning – MT and ET

REV	DATE	REVISION RECORD	DWN	AUTH
-	09-16-13	Initial Release	PAC	JR
A	02-06-14	Output Level to +16 dBm; WU Pwr to 13W	PAC	

**Wenzel Associates, Inc.**

Austin, Texas

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

P/N: 501-27173	Rev: A	Date: 02-06-14	Drawn:	Ref:
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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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