

OUTPUT

Frequency

10.0 GHz

Level

+16 dBm ± 2 dB into 50 ohms

STABILITY

Aging (free-running)

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), typical

100 Hz -94 dBc/Hz

1 kHz -119 dBc/Hz

10 kHz -138 dBc/Hz

100 kHz -142 dBc/Hz

1 MHz -147 dBc/Hz

10 MHz -149 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

5.16 x 4 x 1"

Connectors

SMA(f)'s and solder pins on side

Packaging

Nickel-plated machined
aluminum housing – G3

Mounting

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

POWER REQUIREMENTS

Warm-Up Power

≤ 17 Watts for 5 minutes

Total Power

≤ 13.5 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 (x100 w/SAW)

OTHER

Label

Use conventional label with the
following information:

501-27179 (Current Rev.)

10 GHz GMXO-FR

+15 VDC

Serial # - Date Code

(Mark connectors with function)

Test Data

Output Level

Phase Noise

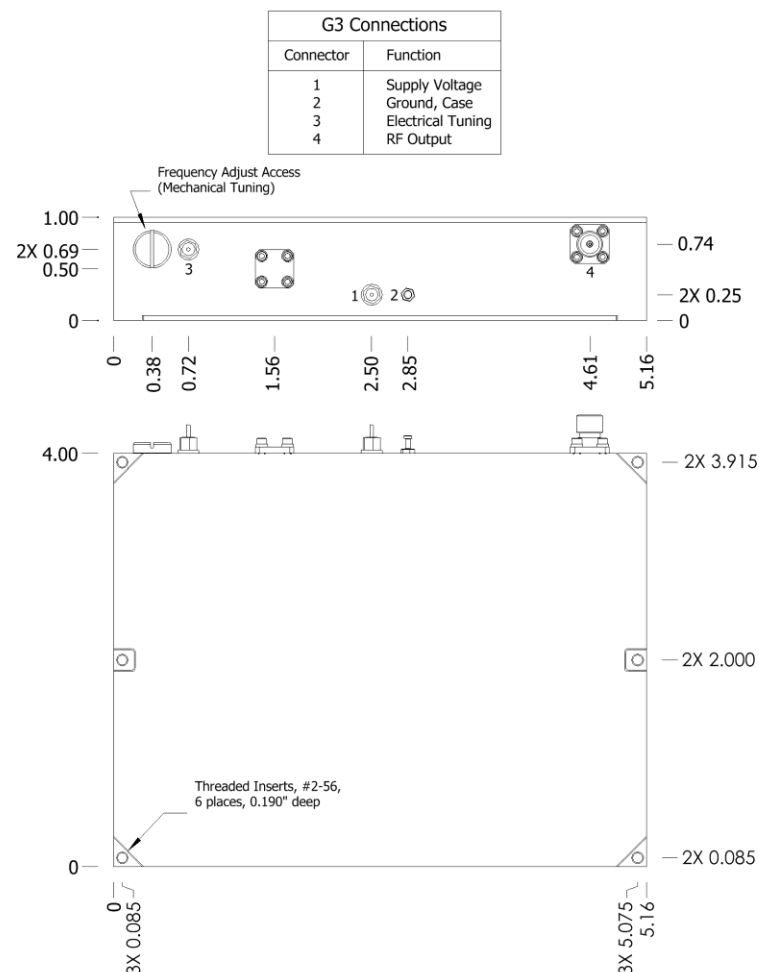
Temperature Stability

Harmonics, Subs, Spurious

Power – Warm-up and Total

Tuning – MT and ET

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



Wenzel Associates, Inc.

Austin, Texas

Title:

**10.0 GHz Golden Multiplied Crystal Oscillator
(GMXO-FR with SAW)**

P/N:

501-27179

Rev:

A

Date:

02-06-14

Drawn:

62821

Ref:

Tolerances:
(except as noted)
Dimensions are in inches

0.XX Dec:

± 0.030 "

0.XXX Dec:

± 0.010 "

FSCM:

62821

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