

OUTPUTS

Output	Frequency	Level (into 50Ω)
	325 MHz	+13 ±2 dBm

STABILITY

Aging

- 1 x 10⁻⁶ first year
- after 30 days operating, typical
- 5 x 10⁻⁷ second year, typical
- 3 x 10⁻⁷ per year thereafter, typical

Phase Noise L(f), dBc/Hz, typical

325 MHz

10 Hz	-90
100 Hz	-120
1 kHz	-145
10 kHz	-164
100 kHz	-166
1 MHz	-166

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

- 4.21 x 4 x 1"

Connectors

- RF Outputs: SMA(f)
- Power, ET: Feed Thru Terminals
- GND: Ground Turret

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

- ≤ 9 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

- 81.25 MHz SC-cut (x4)

OTHER

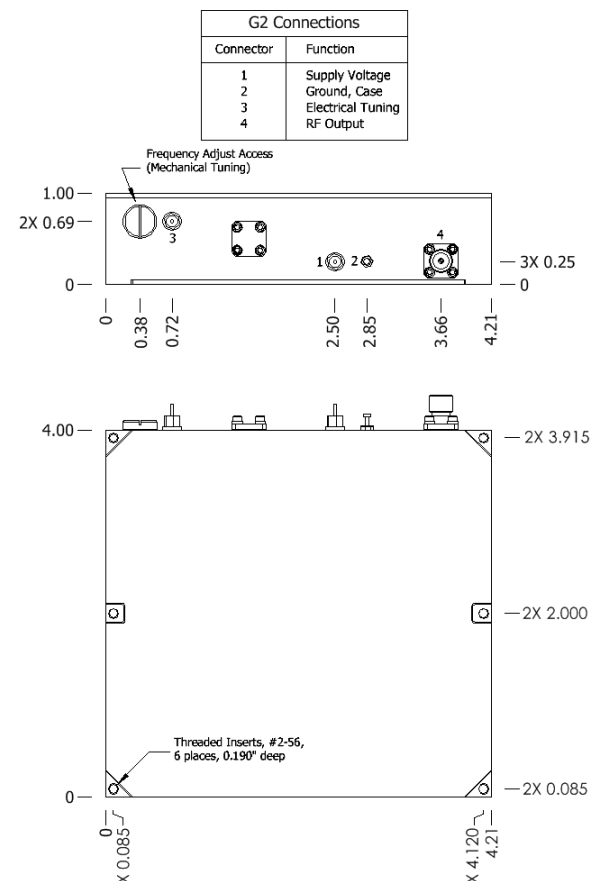
Label

- Use conventional label with the following information:
- 501-31560 (Current Rev.)
- 325M 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

REV	DATE	REVISION RECORD	DWN	AUTH
-	03-22-18	Initial Release	CB	



Wenzel Associates, Inc.

Austin, Texas

Title:

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

P/N: 501-31560	Rev: -	Date: 03-22-18	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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