

OUTPUTS

Output	Frequency	Level (into 50Ω)
A	100 MHz	+16 ±2 dBm
B	5 GHz	+16 ±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

	100 MHz	5 GHz
10 Hz	-105	-69
100 Hz	-136	-100
1 kHz	-162	-125
10 kHz	-183	-145
100 kHz	-188	-147
1 MHz	-188	-148

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 – G2-03

Mounting

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

POWER REQUIREMENTS

Warm-Up Power

- ≤ 18 Watts for 5 minutes

Total Power

- ≤ 14 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

- 100 MHz SC-cut (x50)

OTHER

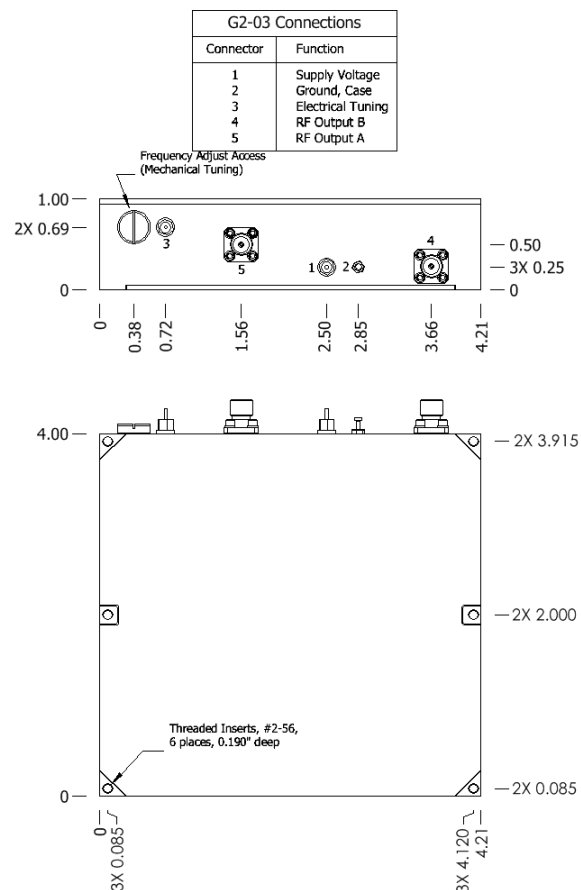
Label

- Use conventional label with the following information:
- 501-31965 (Current Rev.)
- 100M/5G 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
-	05-15-18	Initial Release	CB	



Wenzel Associates, Inc.

Austin, Texas

Title:

**100 MHz & 5 GHz Golden
Multiplied Crystal Oscillator (GMXO-FR)**

P/N:

501-31965

Rev:

-

Date:

05-15-18

Drawn:

62821

Ref:

Tolerances:
(except as noted)
Dimensions are in inches

0.XX Dec:

±0.030"

0.XXX Dec:

±0.010"

FSCM:

62821

Page 1 of 1