

## OUTPUT

Output	Frequency	Level (into 50Ω)
A	125 MHz	+13 ±2 dBm
B	1.25 GHz	+13 ±2 dBm

## STABILITY

### Aging

- $1 \times 10^{-6}$  first year
- after 30 days operating, typical
- $5 \times 10^{-7}$  second year, typical
- $3 \times 10^{-7}$  per year thereafter, typical

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

	125 MHz	1.25 GHz
10 Hz	-98	-78
100 Hz	-130	-108
1 kHz	-159	-136
10 kHz	-177	-154
100 kHz	-182	-159

## 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

4.21 x 4 x 1"

### Connectors

SMA(f) and solder pins

### Packaging

Nickel-plated machined  
aluminum housing – G2-03

### Mounting

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

## POWER REQUIREMENTS

### Warm-Up Power

≤ 16 Watts for 5 minutes

### Total Power

≤ 12 Watts at +25°C

## Supply Voltage

+15 VDC ±5%

## ADJUSTMENT

### Mechanical Tuning

$\pm 4 \times 10^{-6}$

### Electrical Tuning

$\pm 5 \times 10^{-7}$ , ±5 VDC

Negative slope

## CRYSTAL

### Type

125 MHz SC-cut (x10)

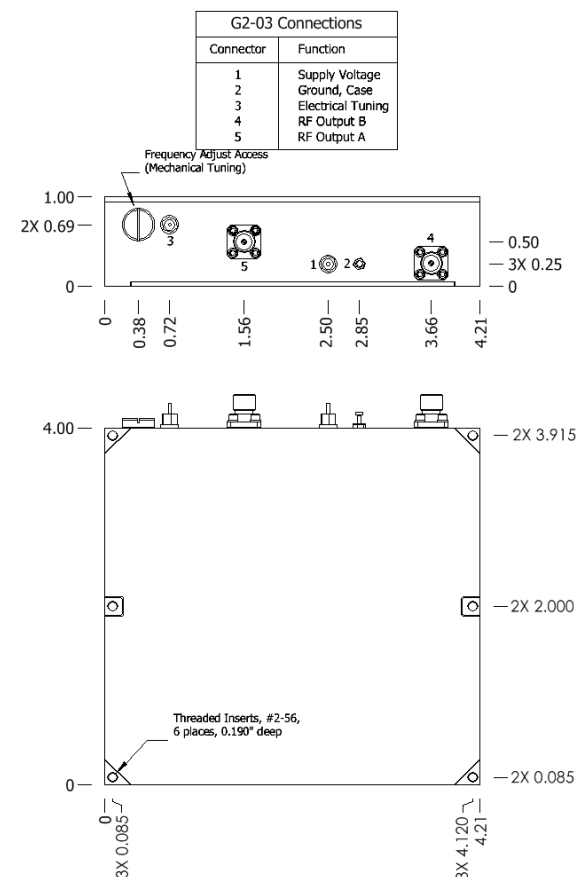
### Label

Use conventional label with the  
following information:  
501-29934 (Current Rev.)  
125M/1.25G 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
-	04-05-16	Initial Release	CB	
A	04-06-16	Added 125 MHz output	CB	



**Wenzel Associates, Inc.**

Austin, Texas

Title:

**125 MHz & 1.25 GHz Golden Multiplied Crystal  
Oscillator (GMXO-FR)**

P/N:

**501-29934**

Rev:

**A**

Date:

**04-06-16**

Drawn:

Ref:

501-27183

Tolerances:  
(except as noted)  
Dimensions are in inches

0.XX Dec:

**±0.030"**

0.XXX Dec:

**±0.010"**

FSCM:

**62821**

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