

## OUTPUT

### Frequency

250 MHz

### Level

+16 dBm  $\pm 2$  dB into 50 ohms

## 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

100 Hz -122 dBc/Hz

1 KHz -150 dBc/Hz

10 KHz -172 dBc/Hz

100 KHz -176 dBc/Hz

### Temperature Stability

$\pm 5 \times 10^{-7}$ , 0° to +50°C (Ref +25°C)

### Harmonics

$\leq -25$  dBc

### Sub-Harmonics

$\leq -60$  dBc

### Spurious

$\leq -80$  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

$\leq 13$  Watts for 5 minutes

### Total Power

$\leq 8$  Watts at +25°C

### Supply Voltage

+15 VDC  $\pm 5\%$

## ADJUSTMENT

### Mechanical Tuning

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

### Electrical Tuning

$\pm 5 \times 10^{-7}$ ,  $\pm 5$  VDC

Negative slope

## CRYSTAL

### Type

125 MHz SC-cut (x2)

### Label

Use conventional label with the following information:

501-26959 (Current Rev.)

250 MHz GMXO-FR

+15 VDC

Serial # - Date Code

(Mark connectors with function)

### Test Data

Output Level

Phase Noise

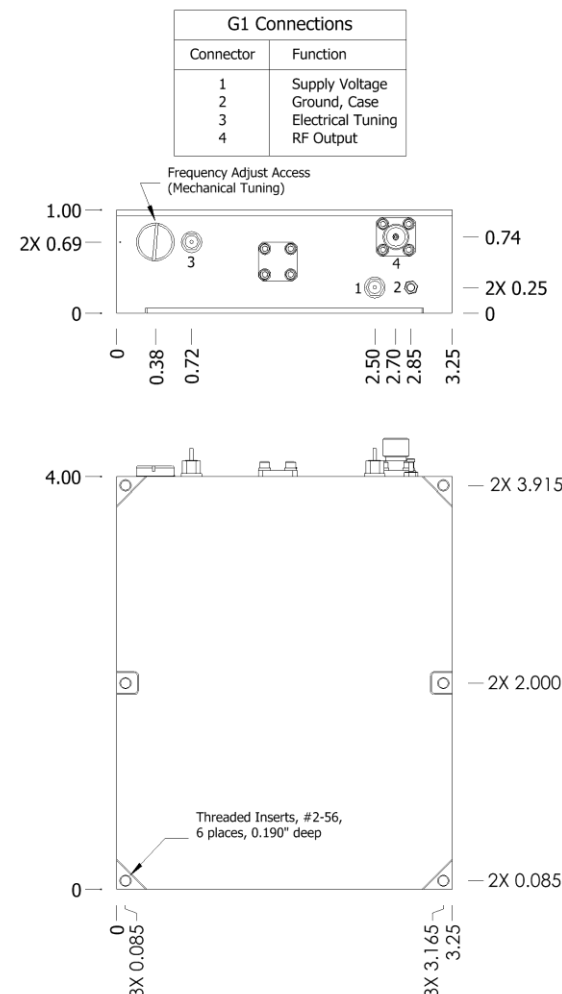
Temperature Stability

Harmonics, Subs, Spurious

Power – Warm-up and Total

Tuning – MT and ET

REV	DATE	REVISION RECORD	DWN	AUTH
-	06-28-13	Initial Release	PAC	JR
A	02-06-14	Output Level to +16 dBm; WU Pwr to 13	PAC	



**Wenzel Associates, Inc.**

Austin, Texas

Title:

**250 MHz Golden Multiplied Crystal Oscillator  
(Golden MXO-FR)**

P/N:

**501-26959**

Rev:

**A**

Date:

**02-06-14**

Drawn:

Ref:

Tolerances:  
(except as noted)  
Dimensions are in inches

0.XX Dec:

**$\pm 0.030$**

0.XXX Dec:

**$\pm 0.010$**

FSCM:

**62821**

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