

OUTPUT**Frequency**

10.24 GHz

Level

+16 dBm ±2 dB into 50 ohms

STABILITY**Aging**1 x 10⁻⁶ first year

after 30 days operating, typical

5 x 10⁻⁷ second year, typical3 x 10⁻⁷ per year thereafter, typical**Phase Noise L(f), dBc/Hz**

100 Hz -92 dBc/Hz

1 KHz -117 dBc/Hz

10 KHz -139 dBc/Hz

100 KHz -140 dBc/Hz

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**

5.16 x 4 x 1"

Connectors

SMA(f) and solder pins

Packaging

Nickel-plated machined aluminum housing – G3

Mounting

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

POWER REQUIREMENTS**Warm-Up Power**

≤ 22 Watts for 5 minutes

Total Power

≤ 18 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**

128 MHz SC-cut (x80)

Label

Use conventional label with the following information:

501-27185 (Current Rev.)

10.24 GHz GMXO-FR

+15 VDC

Serial # - Date Code

(Mark connectors with function)

Test Data

Output Level

Phase Noise

Temperature Stability

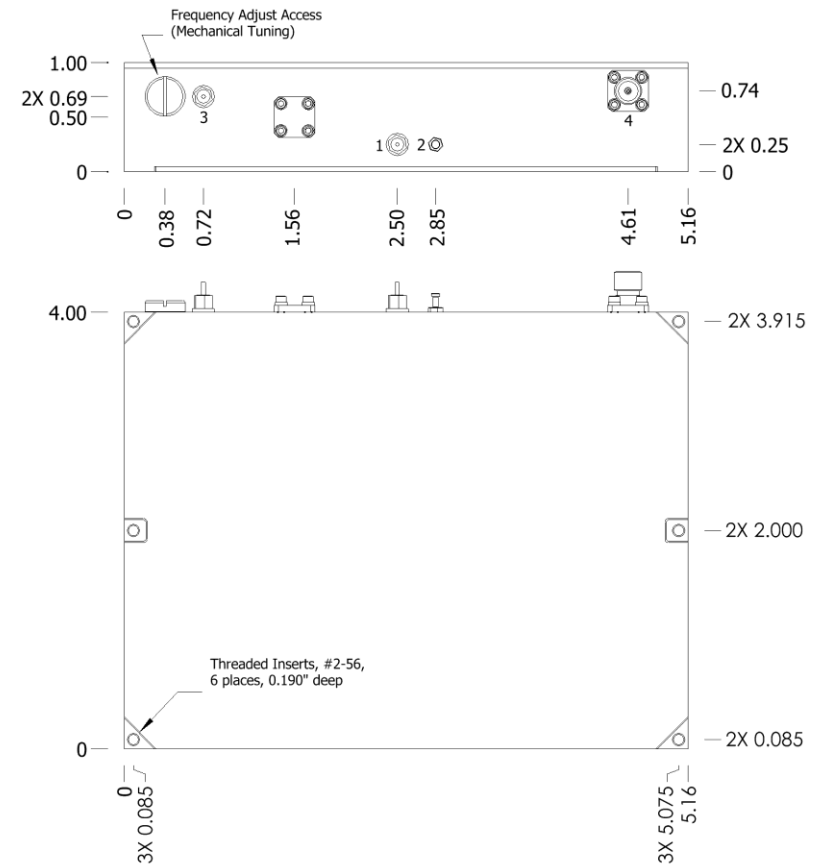
Harmonics, Subs, Spurious

Power – Warm-up and Total

Tuning – MT and ET

| REV | DATE | REVISION RECORD | DWN | AUTH |
|-----|----------|-------------------------|-----|------|
| - | 09-17-13 | Initial Release | PAC | JR |
| A | 02-06-14 | Output Level to +16 dBm | PAC | |
| | | | | |

| G3 Connections | |
|----------------|-------------------|
| Connector | Function |
| 1 | Supply Voltage |
| 2 | Ground, Case |
| 3 | Electrical Tuning |
| 4 | RF Output |

**Wenzel Associates, Inc.**

Austin, Texas

Title:

**10.24 GHz Golden Multiplied Crystal Oscillator
(Golden MXO-FR)**

P/N:

501-27185

Rev:

A

Date:

02-06-14

Drawn:

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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