

OUTPUT

| Output | Frequency | Level (into 50Ω) |
|--------|-----------|------------------|
| A | 128 MHz | +13 ±2 dBm |
| B | 1.28 GHz | +13 ±2 dBm |

STABILITY

Aging

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

Phase Noise L(f), dBc/Hz

| | 128 MHz | 1.28 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

128 MHz SC-cut (x10)

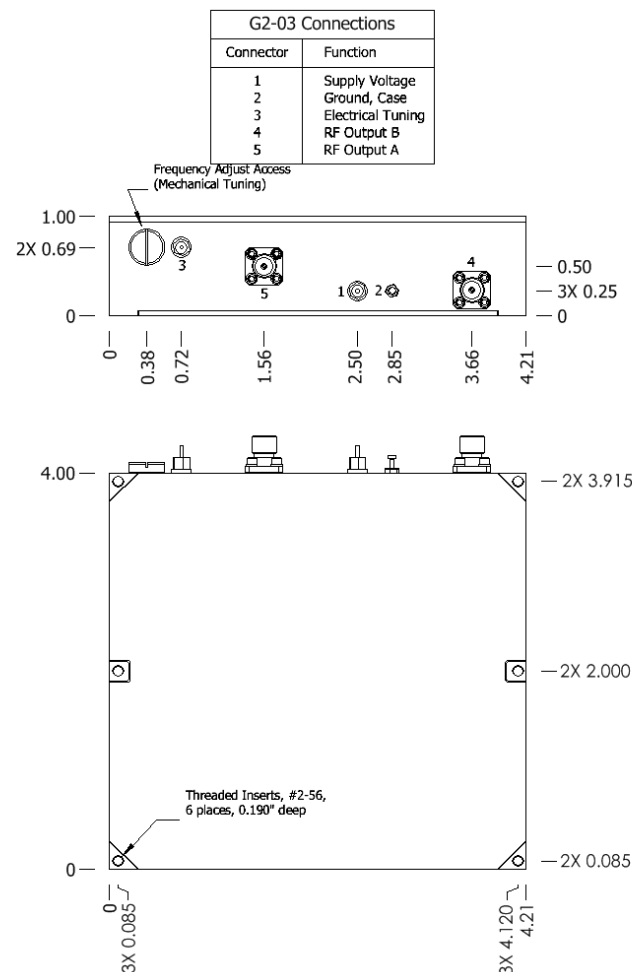
Label

Use conventional label with the
following information:
501-30455 (Current Rev.)
128M/1.28G 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 |
|-----|----------|-----------------|-----|------|
| - | 11-02-16 | Initial Release | CB | |
| | | | | |
| | | | | |
| | | | | |



Wenzel Associates, Inc.

Austin, Texas

Title:

**128 MHz & 1.28 GHz Golden Multiplied Crystal
Oscillator (GMXO-FR)**

P/N:

501-30455

Rev:

-

Date:

11-02-16

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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