OUTPUTS

 Output
 Frequency
 Level (into 50Ω)

 162.5 MHz
 +13 ±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

162.5 MHz

| 10 Hz 100 Hz | -96 -126 |
|-----------------|-------------|
| 1 kHz | -152 |
| 10 kHz | -171 |
| 100 kHz | -172 |
| 1 MHz | -172 |

Temperature Stability

 $\pm 5 \times 10^{-7}$, 0 to $\pm 50^{\circ}$ C (Ref. $\pm 25^{\circ}$ C) **Harmonics** $\leq -25 \text{ dBc}$ **Sub-Harmonics** $\leq -60 \text{ dBc}$ **Spurious** $\leq -80 \text{ dBc}$, excluding power supply line related spurs **MECHANICAL Dimensions** $3.25 \times 4 \times 1^{\circ}$

Connectors

RF Outputs: SMA(f) Power, ET: Feed Thru Terminals GND: Ground Turret **Packaging** Nickel-plated machined

aluminum housing – G1

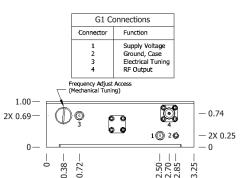
Mounting

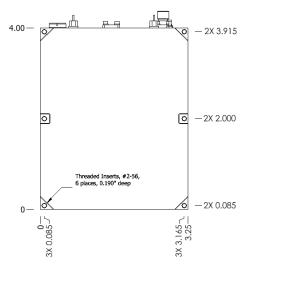
Threaded inserts on base, #2-56, 6 places

| POWER REQUIREMENTS | | | | |
|---------------------------------|--|--|--|--|
| Warm-Up Power | | | | |
| ≤ 11.5 Watts for 5 minutes | | | | |
| | | | | |
| Total Power | | | | |
| ≤ 7.5 Watts at +25°C | | | | |
| Supply Voltage | | | | |
| +15 VDC ±5% | | | | |
| ADJUSTMENT | | | | |
| Mechanical Tuning | | | | |
| $+4 \times 10^{-6}$ | | | | |
| | | | | |
| Electrical Tuning | | | | |
| ±5 x 10 ⁻⁷ , ±5 VDC | | | | |
| Negative Slope | | | | |
| CRYSTAL | | | | |
| Туре | | | | |
| 81.25 MHz SC-cut (x2) | | | | |
| | | | | |
| OTHER | | | | |
| Label | | | | |
| Use conventional label with the | | | | |
| following information: | | | | |
| 501-31559 (Current Rev.) | | | | |
| 162.5M GMXO-FR | | | | |
| +15 VDC | | | | |
| | | | | |
| Serial # - Date Code | | | | |
| (Mark connectors with function) | | | | |
| Test Data | | | | |
| - Output Level | | | | |

- Output Level
- Phase Noise
- Temperature Stability
- Harmonics, Subs, Spurious
- Power Warm-up and Total

| REV | DATE | REVISION RECORD | DWN | AUTH |
|-----|----------|-----------------|-----|------|
| - | 03-22-18 | Initial Release | CB | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |





| Wenzel Associates, Inc. | | | | | | | |
|---|--|----------------|-----------------------|----------------|-------------|--|--|
| Title: 162.5 MHz Golden Multiplied Crystal Oscillator (GMXO-FR) | | | | | | | |
| ^{P/N:} 501-31559 | | Rev: | Date: 03-22-18 | Drawn: | Ref: | | |
| Tolerances: (except as noted) Dimensions are in inches | | Dec: 0.030" | 0.XXX Dec: ±0.010" | FSCM: 62821 | Page 1 of 1 | | |