

OUTPUT**Frequency**

2.5 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), typical**

100 Hz -106 dBc/Hz

1 KHz -132 dBc/Hz

10 KHz -152 dBc/Hz

100 KHz -155 dBc/Hz

1 MHz -157 dBc/Hz

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 – GJ2

Mounting

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

POWER REQUIREMENTS**Warm-Up Power** ≤ 17 Watts for 5 minutes**Total Power** ≤ 13 Watts at +25°C**Supply Voltage**+15 VDC $\pm 5\%$ **ADJUSTMENT****Mechanical Tuning** $\pm 4 \times 10^{-6}$ **Electrical Tuning** $\pm 5 \times 10^{-7}$, ± 5 VDC

Negative slope

CRYSTAL**Type**

100 MHz SC-cut (x25)

OTHER**Label**

Use conventional label with the following information:

501-26839 (Current Rev.)

2.5 GHz GMXO-FR

+15 VDC

Serial # - Date Code

(Mark connectors with function)

Test Data

Output Level

Phase Noise

Temperature Stability

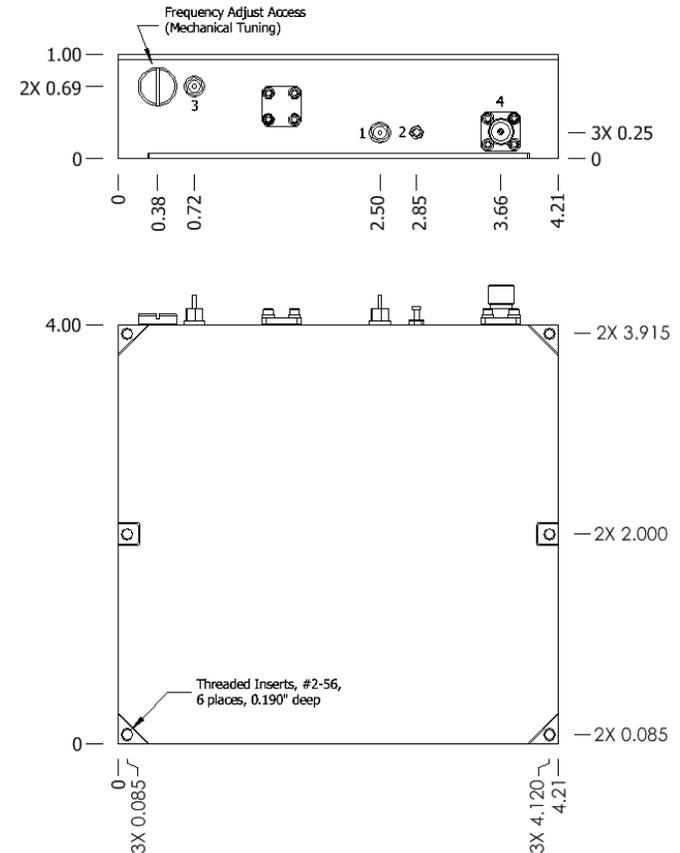
Harmonics, Subs, Spurious

Power – Warm-up and Total

Tuning – MT and ET

REV	DATE	REVISION RECORD	DWN	AUTH
-	05-10-13	Initial Release	PAC	
A	02-06-14	Output Level to +16 dBm	PAC	
B	10-26-16	Changed Power specs	CB	

G2 Connections	
Connector	Function
1	Supply Voltage
2	Ground, Case
3	Electrical Tuning
4	RF Output

**Wenzel Associates, Inc.**

Austin, Texas

Title:

2.5 GHz Multiplied Crystal Oscillator (GMXO-FR)

P/N:

501-26839

Rev:

B

Date:

10-26-16

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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