OUTPUT

Frequency
10.0 GHz

Level
+16 dBm ±2 dB into 50 ohms

STABILITY

Aging (free-running)
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), typical, dBc/Hz

100 Hz	-92 dBc/Hz
1 kHz	-117 dBc/Hz
10 kHz	-137 dBc/Hz
100 kHz	-138 dBc/Hz
1 MHz	-139 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
5.16 x 4 x 1”

Connectors
SMA(f)’s and solder pins on side

Packaging
Nickel-plated machined aluminum housing – G3

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

POWER REQUIREMENTS

Warm-Up Power
≤ 17 Watts for 5 minutes

Total Power
≤ 13.5 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
100 MHz SC-cut (x100)

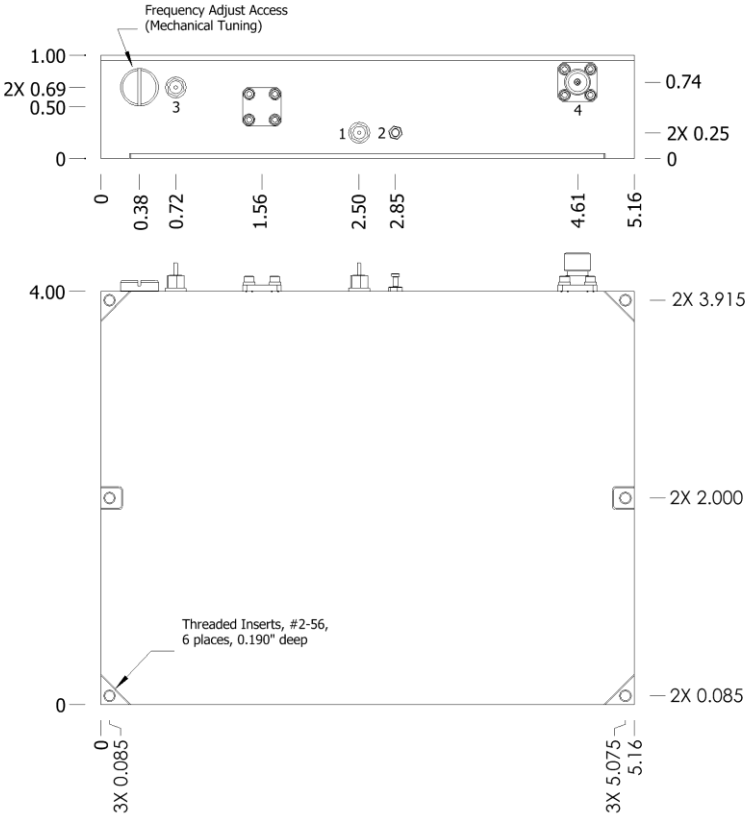
OTHER

Label
Use conventional label with the following information:
501-27178 (Current Rev.)
10 GHz GMXO-FR
+15 VDC
Serial # - Date Code
(Mark connectors with function)

Test Data
Output Level
Phase Noise – free-running
Temperature Stability – free-running
Harmonics, Subs, Spurious
Power – Warm-up and Total
Tuning – MT and ET

REV	DATE	REVISION RECORD	DWN	AUTH
-	09-28-13	Initial Release	Liz	
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:
10.0 GHz Golden Multiplied Crystal Oscillator (GMXO-FR)

P/N:	Rev:	Date:	Drawn:	Ref:
501-27178	A	02-06-14		

Tolerances: (except as noted) Dimensions are in inches	0.XX Dec:	0.XXX Dec:	FSCM:	Page 1 of 1
	±0.030”	±0.010”	62821	