OUTPUT

Frequency
6.0 GHz

Level
+16 dBm ±2 dB into 50 ohms

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

100 Hz	-96 dBc/Hz
1 KHz	-122 dBc/Hz
10 KHz	-140 dBc/Hz
100 KHz	-143 dBc/Hz
1 MHz	-143 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 – G2

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

POWER REQUIREMENTS

Warm-Up Power
≤ 18 Watts for 5 minutes

Total Power
≤ 14 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

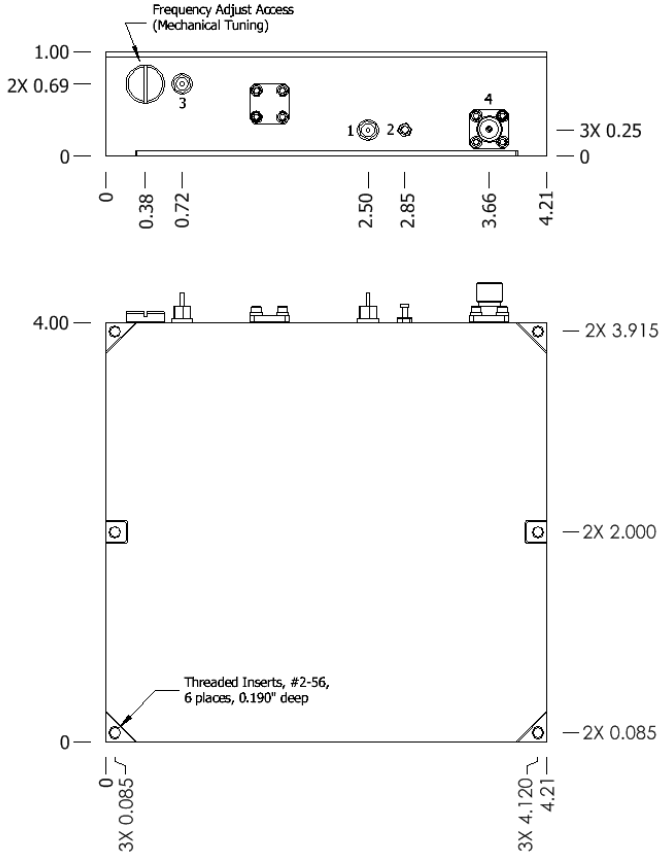
Type
120 MHz SC-cut (x50)

Label
Use conventional label with the following information:
501-29089 (Current Rev.)
6.0 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
-	06-01-15	Initial Release	CB	

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



Wenzel Associates, Inc.
Austin, Texas

Title:
6.0 GHz Golden Multiplied Crystal Oscillator (GMXO-FR)

P/N:	Rev:	Date:	Drawn:	Ref:
501-29089	**-**	**06-01-15**		

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