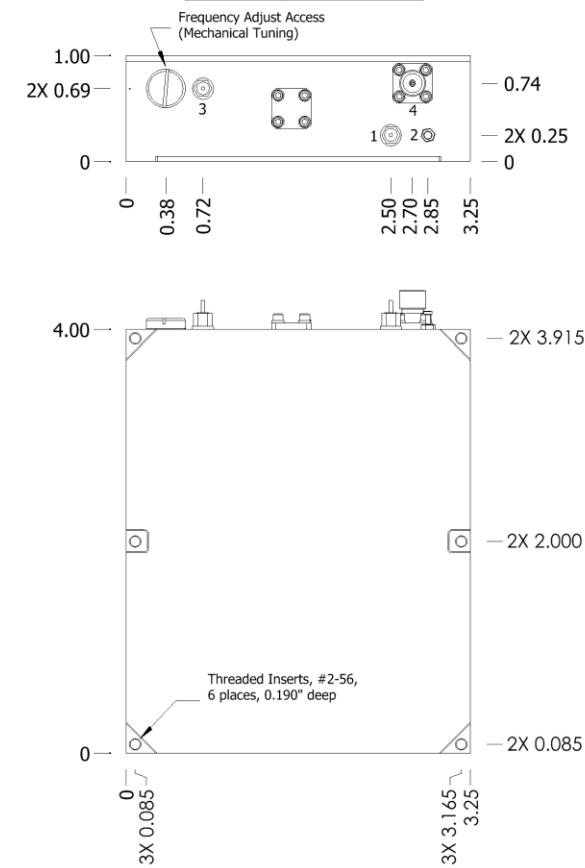


<b>OUTPUT</b>									
<b>Frequency</b>	500 MHz								
<b>Level</b>	+16 dBm $\pm 2$ dB into 50 ohms								
<b>STABILITY</b>									
<b>Aging</b>	$1 \times 10^{-6}$ first year after 30 days operating, typical $5 \times 10^{-7}$ second year, typical $3 \times 10^{-7}$ per year thereafter, typical								
<b>Phase Noise L(f), dBc/Hz</b>	<table border="0"> <tr> <td>100 Hz</td> <td>-121 dBc/Hz</td> </tr> <tr> <td>1 KHz</td> <td>-146 dBc/Hz</td> </tr> <tr> <td>10 KHz</td> <td>-167 dBc/Hz</td> </tr> <tr> <td>100 KHz</td> <td>-170 dBc/Hz</td> </tr> </table>	100 Hz	-121 dBc/Hz	1 KHz	-146 dBc/Hz	10 KHz	-167 dBc/Hz	100 KHz	-170 dBc/Hz
100 Hz	-121 dBc/Hz								
1 KHz	-146 dBc/Hz								
10 KHz	-167 dBc/Hz								
100 KHz	-170 dBc/Hz								
<b>Temperature Stability</b>	$\pm 5 \times 10^{-7}$ , 0° to +50°C (Ref +25°C)								
<b>Harmonics</b>	$\leq -25$ dBc								
<b>Sub-Harmonics</b>	$\leq -60$ dBc								
<b>Spurious</b>	$\leq -80$ dBc, excluding power supply line related spurs								
<b>MECHANICAL</b>									
<b>Dimensions</b>	3.25 x 4 x 1"								
<b>Connectors</b>	SMA(f) and solder pins								
<b>Packaging</b>	Nickel-plated machined aluminum housing – G1								
<b>Mounting</b>	Threaded inserts on base, #2-56, 6 places								
<b>POWER REQUIREMENTS</b>									
<b>Warm-Up Power</b>	$\leq 13$ Watts for 5 minutes								
<b>Total Power</b>	$\leq 10$ Watts at +25°C								
<b>Supply Voltage</b>	+15 VDC $\pm 5\%$								

<b>ADJUSTMENT</b>	
<b>Mechanical Tuning</b>	$\pm 4 \times 10^{-6}$
<b>Electrical Tuning</b>	$\pm 5 \times 10^{-7}$ , $\pm 5$ VDC Negative slope
<b>CRYSTAL</b>	
<b>Type</b>	100 MHz SC-cut (x5)
<b>Label</b>	Use conventional label with the following information: 501-26838 (Current Rev.) 500 MHz GMXO-FR +15 VDC Serial # - Date Code (Mark connectors with function)
<b>Test Data</b>	Output Level Phase Noise Temperature Stability Harmonics, Subs, Spurious Power – Warm-up and Total Tuning – MT and ET

REV	DATE	REVISION RECORD	DWN	AUTH
-	05-17-13	Initial Release	PAC/L	
A	02-06-14	Output Level to +16 dBm	PAC	JH

G1 Connections	
Connector	Function
1	Supply Voltage
2	Ground, Case
3	Electrical Tuning
4	RF Output



 <b>Wenzel Associates, Inc.</b> <small>Austin, Texas</small>		Title: <b>500 MHz Golden Multiplied Crystal Oscillator ( GMXO-FR )</b>			
		P/N: <b>501-26838</b>	Rev: <b>A</b>	Date: <b>02-06-14</b>	Drawn:
Tolerances: (except as noted) Dimensions are in inches		0.XX Dec: <b><math>\pm 0.030"</math></b>	0.XXX Dec: <b><math>\pm 0.010"</math></b>	FSCM: <b>62821</b>	Page <b>1 of 1</b>