OUTPUT Frequency 250 MHz Level +13 dBm ±2 dB into 50 ohms **STABILITY** Aging  $1 \times 10^{-6}$  first year after 30 days operating, typical  $5 \times 10^{-7}$  second year, typical  $3 \times 10^{-7}$  per year thereafter, typical Phase Noise L(f), dBc/Hz 100 Hz -123 dBc/Hz 1 KHz -153 dBc/Hz 10 KHz -172 dBc/Hz 100 KHz -176 dBc/Hz **Temperature Stability**  $\pm 5 \times 10^{-7}$ , 0° to  $\pm 50^{\circ}$ C (Ref  $\pm 25^{\circ}$ C) Harmonics ≤ -25 dBc Sub-Harmonics ≤ -60 dBc Spurious ≤ -80 dBc, excluding power supply line related spurs MECHANICAL Dimensions 3.25 x 4 x 1" Connectors SMA(f) and solder pins 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** 

CRYSTAL

Type

Label

Test Data

	REV DATE REVISION RECORD					DWN	AUTH
DJUSTMENT	-	02-27-17	Initial Release	•		Cb	
echanical Tuning							
$\pm 4 \times 10^{-6}$							
ectrical Tuning					_		
±5 x 10 <sup>-7</sup> , ±5 VDC				G1 Connections	_		
Negative slope			Connec				
RYSTAL			1	Supply Voltage Ground, Case			
/pe			3	Electrical Tunin RF Output	ng		
125 MHz SC-cut (x2)			Frequency	Adjust Access			
abel		1.00-	(Mechanica				
Use conventional label with the		2X 0.69-	(Do	00	0.7	4	
following information:			3	0.0	4	0.05	
501-30688 (Current Rev.)		0		10	2© - 2X	0.25	
250 MHz GMXO-FR		-					
+15 VDC Serial # - Date Code			0 0.38 0.72	2.50	2.70 2.85 3.25		
(Mark connectors with function)							
est Data			n	nl			
Output Level		4.00	р <del>а</del> По/	_ ச ம்	<u>√</u> √0 – 2X	3.915	
Phase Noise			7				
Temperature Stability							
Harmonics, Subs, Spurious							
Power – Warm-up and Total							
Tuning – MT and ET							
			0		○ -2X	2.000	
	Threaded Inserts, #2-56, 6 places, 0.190" deep						
		0	01		∕⊙ —2X	0.085	
			<u>0</u> 35 / _		25		
			3X 0.085		3X 3.165- 3.25-		
			3X		3X		
	Wenzel Associates, Inc.						
	Austin, Texas						
	Title: 250 MHz Coldon Multiplied Crystel Occillator						
	250 MHz Golden Multiplied Crystal Oscillator						
	(Golden MXO-FR)  P/N: Rev: Date: Drawn: Ref:						
	P/N: 501	-30688		02-27-17	Drawn:	Ref:	
					5001		
	Tolerances: (except as r		0.XX Dec: ±0.030"	0.XXX Dec: ±0.010"	FSCM: 62821	Page 1	of <b>1</b>
	uniensions	are in inches	$\pm 0.030$	10.010	02021		-