INPUT Frequency 10 MHz Level +7 dBm ±6 dB into 50 ohms OUTPUT Frequency 2.4 GHz Level +13 dBm ±2 dB into 50 ohms **STABILITY** Aging (free-running) 1 x 10⁻⁶ first year after 30 days operating, typical 5×10^{-7} second year, typical 3×10^{-7} per vear thereafter, typical Phase Noise L(f), typical, (free-running) 10 Hz -75 dBc/Hz 100 Hz -106 dBc/Hz 1 kHz -131 dBc/Hz 10 kHz -152 dBc/Hz 100 kHz -154 dBc/Hz 1 MHz -154 dBc/Hz 10 MHz -154 dBc/Hz **Temperature Stability** $\pm 5 \times 10^{-7}$ free-running from 0 to $\pm 50^{\circ}$ C (Ref. +25°C) Harmonics -25 dBc Sub-Harmonics -60 dBc PLL Divider Products -60 dBc **Spurious** -80 dBc, excluding power supply line related spurs **MECHANICAL** Dimensions 6.36 x 4 x 1" Connectors RF Input/Output: SMA(f) Power, Monitoring: Feed Thru Terminals GND: Ground Turret

Packaging Nickel-plated machined aluminum housing - G3P Mounting Threaded inserts on base, #2-56, 6 places POWER REQUIREMENTS Warm-Up Power \leq 21 Watts for 5 minutes **Total Power** ≤ 17 Watts at +25°C Supply Voltage +15 VDC ±5% ADJUSTMENT Loop BW Target Bandwidth: ≤ 10 Hz Type 2 Loop PHASE LOCK STATUS Phase Lock Alarm TTL Locked: +3.5 VDC to +5.2 VDC (Hi) Out-of-Lock: +0.8 VDC max (Lo) Phase Lock Voltage Monitor Electrical tuning monitor pin supplied CRYSTAL Type 100 MHz SC-cut (x24) OTHER Label Use conventional label with the following information: 501-29412 (Current Rev.) 2.4 GHz GMXO-PLD +15 VDC Serial # - Date Code (Mark connectors with function) Test Data Output Level Phase Noise (free-running) Temperature Stability (free-running) Harmonics, Subs, Products, Spurious Power - Warm-up and Total

	REV	DATE	REVISION RECORD			DWN	AUTH
	-					СВ	-
$ \frac{G3P MXO Connections}{Connector} Function} \frac{G3P MXO Connections}{Ground, Case} \frac{1}{2} Ground, Case} \frac{1}{3} RF Output} \frac{1}{5} Phase Lock Voltage} \frac{1}{5} RF base Lock Alarman}{7} External Reference Input} $							
		4.00 3.915 J	Threaded Inserts, #2-56		₩ ⁴	¢ ¢	
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Wenzel Associates, Inc. Austin, Texas Title: 2.4 GHz Golden Multiplied Crystal Oscillator (GMXO-PLD)							
	^{P/N:} 50	1-29412	-	09-21-15	Drawn:	Re	if:
	Tolerances (except as Dimensions		0.XX Dec: ±0.030"	0.XXX Dec: ±0.010"	FSCM: 62821	Page 1 o	of 1