INPUT Frequency 10 MHz Level +7 dBm ±6 dB into 50 ohms OUTPUT Frequency 980 MHz Level +13 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 vear thereafter, typical Phase Noise L(f), typical, (free-running) 10 Hz -83 dBc/Hz 100 Hz -114 dBc/Hz 1 kHz -139 dBc/Hz 10 kHz -160 dBc/Hz 100 kHz -165 dBc/Hz 1 MHz -165 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** 5.4 x 4 x 1" Connectors RF Input/Output: SMA(f) Power, Monitoring: Feed Thru Terminals GND: Ground Turret Packaging Nickel-plated machined aluminum housing - G2P

Mounting Threaded inserts on base, #2-56, 6 places POWER REQUIREMENTS Warm-Up Power ≤ 17.5 Watts for 5 minutes **Total Power** ≤ 13.5 Watts at +25°C Supply Voltage +15 VDC ±5% ADJUSTMENT Loop BW Target Bandwidth: ≤ 100 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 98 MHz SC-cut (x10) OTHER Label Use conventional label with the following information: 501-30747 (Current Rev.) 980 MHz 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

