INPUT Packaging Frequency Nickel-plate machined 10 MHz, ±2 x 10⁻⁶ aluminum housing Mounting Level Tapped holes on sides, 16 places +7 dBm ±5 dB into 50 ohms Through holes, 4 places OUTPUT Frequency Threaded inserts on base, 4 places 100 MHz POWER REQUIREMENTS Supply Voltage Level +13 dBm ±2 dB into 50 ohms +15 VDC ±5% STABILITY Warm-Up Power Output Phase Noise L(f) ≤8 Watts at start-up for 5 minutes (Free-Running) at +25° C **Total Power** -130 dBc/Hz 100 Hz ≤5 Watts at steady state +25°C 1 kHz -155 dBc/Hz 10 kHz -175 dBc/Hz ADJUSTMENT 100 kHz -176 dBc/Hz Loop BW Target Bandwidth: 60 Hz Aging $\pm 1 \times 10^{-6}$ per year after 30 days Type 2 Loop CRYSTAL operating, typical **Temperature Stability** SC-cut $\pm 5 \times 10^{-7}$ free-running from 0 to $\pm 50^{\circ}$ C, (Ref. +25°C) 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 Voltage monitor pin supplied SPECTRAL PURITY Harmonics ≤-30 dBc Sub-Harmonics ≤-50 dBc PLL Divider Products ≤-60 dBc Spurious ≤-70 dBc MECHANICAL Dimensions 2.5 x 3.5 x 0.8" Connectors SMA's and solder pins on side Feed-thru terminals for lock alarm, supply and phase lock voltage monitor

