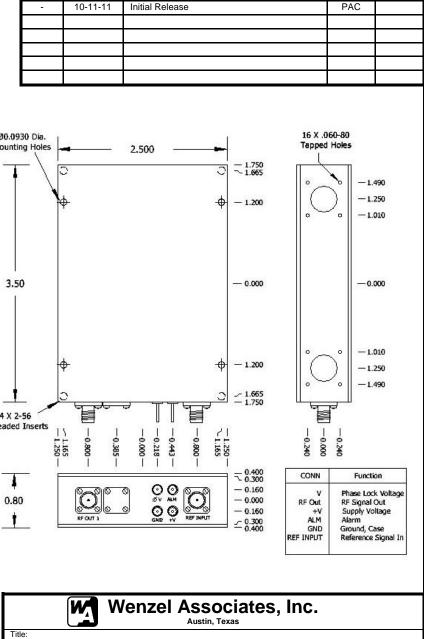
REVISION RECORD REV DATE 10-11-11 -INPUT Packaging Frequency Nickel-plate machined 10 MHz, ±2 x 10⁻⁶ aluminum housing Mounting Level Tapped holes on sides, 16 places +7 dBm ±5 dB into 50 ohms OUTPUT Through holes, 4 places Frequency Threaded inserts on base, 4 places 100 MHz POWER REQUIREMENTS Ø0.0930 Dia. Supply Voltage Mounting Holes Level 2.500 +13 dBm ±2 dB into 50 ohms +15 VDC ±5% Warm-Up Power STABILITY 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: < 5 Hz 3.50 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) 4 X 2-56 Threaded Inserts Out-of-Lock: +0.8 VDC max (Lo) 0.385 0.443 0.800 0.000 0.218 Phase Lock Voltage Monitor 250 Voltage monitor pin supplied SPECTRAL PURITY Harmonics C 0.80 ≤-30 dBc RF OUT 1 Sub-Harmonics ≤-50 dBc **PLL Divider Products** ≤-60 dBc Spurious ≤-70 dBc MECHANICAL Dimensions Title 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



DWN

AUTH

Premium 100 MHz-SC Phase Lock Crystal Oscillator

^{P/N:} 501-25059	Rev:	Date 1	0-11-11	Drawn:	Ref: ULN
Tolerances: (except as noted) Dimensions are in inches	0.XX Dec: ±0.030"		0.XXX Dec: ±0.010"	FSCM: 62821	Page 1 of 1