OUTPUT Frequency 10 MHz Level +4 dBm ±3 dB into 50 ohms EXTERNAL REFERENCE INPUT Frequency 5 or 10 MHz, ±3 Hz selectable Level +4 dBm ±3dB into 50 ohms VSWR 1.5:1 max Phase Noise L(f), typical at 10 MHz 1 Hz -85 dBc 10 Hz -117 dBc 100 Hz -132 dBc 1 KHz -142 dBc 10 KHz -147 dBc **OUTPUT STABILITY** Aging 1 x 10⁻⁹ /day after 24 hours operating preceeded by 3 days of operation. Disciplined. Phase Noise L(f) 1 Hz -100 dBc 10 Hz -130 dBc 100 Hz -155 dBc 1 KHz -163 dBc **Temperature Stability** $\pm 5 \times 10^{-9}$, 0° to $\pm 65^{\circ}$ C total change Type 2, 3rd order PLL BW @ 0.05 Hz, nominal Input Output PLL Rejection 1 Hz 15 dB Min. 10 Hz 35 dB Min 100 Hz 55 dB Min

MECHANICAL Dimensions 2.26" x 2.26" x 0.61" max Connectors SMA Output, SMA Input S4B-PH-K-S-(LF)(SN) Control/Status S6B-PH-K-S-(LF)(SN) Programming Packaging Nickel plated aluminum housing POWER REQUIREMENTS Warm-Up Power 7.5 Watts for 5 minutes **Total Power** 3.5 Watts at +25°C Supply Voltage +12 VDC +-5% CRYSTAL Type 10 MHz SC-cut, ≥90°C STATUS Pin – Locked status TTL, High = locked TTL, Low = Not locked OTHER **Test Data** Output Level, Phase Noise freerunning and with external input. Smooth transition verification. **Slow Transition** Smooth frequency transitions on the loss and acquisition of reference input Disciplined Begins initial aging correction after being locked for 14 days

REV	DATE	REVISION RECORD	DWN	AUTH
-	06-08-16	Initial Release	BH	LR

Wenzel Associates, Inc. Austin, Texas											
10 MHz-SC Digital Phase Locked Oscillator with Smooth Frequency Transitions (RoHS)											
^{P/N:} 501-30110	Rev:	Date 0		Drawn:		Ref: 500-25237e					
Tolerances: (except as noted) Dimensions are in inches	0.XX Dec: ±0.03	0"	0.XXX Dec: ±0.010"	FSCM: 62821	Ρ	age 1 of 2					

