INPUT Frequency 10 MHz, ±1 x 10⁻⁷ Level +7 dBm ±5 dB into 50 ohms OUTPUT Frequency 160 MHz Level +13 dBm ±2 dB into 50 ohms STABILITY **Output Phase Noise L(f)** (Free-Running) 100 Hz -123 dBc/Hz 1 kHz -151 dBc/Hz 10 kHz -166 dBc/Hz 100 kHz -167 dBc/Hz Aging ±1 x 10⁻⁶ per year after 30 days operating, typical **Temperature Stability** $\pm 5 \times 10^{-7}$ free-running from 0 to $\pm 50 \,^{\circ}$ C, (Ref. +25°C) **Harmonics** -30 dBc **PLL Divider Products** -70 dBc **Non-Harmonic Spurious** -80 dBc, excluding power supply line related spurs **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 **MECHANICAL Dimensions** 2.5 x 3.5 x 0.8" Connectors SMA(f)'s and solder pins on side Feed-thru terminals for lock alarm,

supply and phase lock voltage monitor

Packaging

Nickel-plated machined aluminum housing

Mounting

Through holes, 4 places

Threaded inserts on base, 4 places

POWER REQUIREMENTS

Supply Voltage

+15 VDC ±5%

Warm-Up Power

8 Watts at start-up for 5 minutes at +25° C

Total Power

5 Watts at steady state +25°C

ADJUSTMENT

Loop BW

Target Bandwidth: < 10 Hz Type 2 Loop

CRYSTAL

Type

80 MHz SC-cut with x2 stage

OTHER

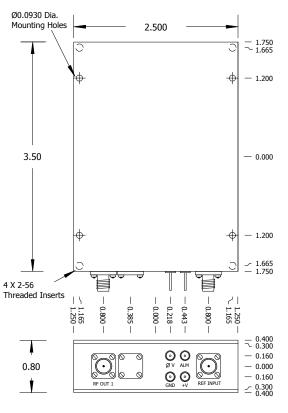
Test Data

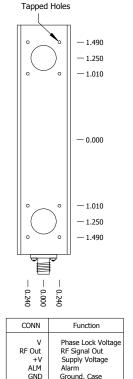
Output Level

Phase Noise (free-running)

Temperature Stability (free-running) Harmonics, PLL Products, Spurious

REV	DATE	REVISION RECORD	DWN	AUTH
-	10-10-12	Initial Release	Liz	





Reference Signal Ir

16 X .060-80

Wenzel Associates, Inc. Austin, Texas											
160 MHz-SC ULN Phase Lock Crystal Oscillator											
501-26346	Rev:	Date: 10-10-12		Drawn:		Ref: ULN					
Tolerances: (except as noted) Dimensions are in inches	0.XX Dec: ±0.030"		0.XXX Dec: ±0.010"	FSCM: 62821	Р	Page 1 of 1					