INPUT Packaging Frequency 10 MHz, ±2 x 10⁻⁷ Mounting Level +7 dBm ±5 dB into 50 Ohms OUTPUT Frequency 25 MHz **Supply Voltage** Level +13 dBm ±2 dB into 50 ohms Warm-Up Power STABILITY Output Phase Noise L(f) **Total Power** Free-Running -120 dBc/Hz ADJUSTMENT 10 Hz 100 Hz -150 dBc/Hz Loop BW 1 kHz -172 dBc/Hz 10 kHz -174 dBc/Hz Aging $\pm 1 \times 10^{-7}$ per year after 30 days **CRYSTAL** operating, typical Type **Temperature Stability** $\pm 1 \times 10^{-8}$ free-running from OTHER Test Data 0 to +50°C, (Ref. +25°C) Harmonics -30 dBc Sub-Harmonics -50 dBc **PLL Divider Products** -50 dBc **Non-Harmonic Spurious** -70 dBc 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's and solder pins on side Feed-thru terminals for lock alarm. supply and phase lock voltage monitor

+15 VDC +5%

to $\pm 1 \times 10^{-9}$ of input

25 MHz SC-cut

Output Level

REVISION RECORD REV DATE DWN 02-28-17 Initial Release BH -Nickel-plated machined aluminum housing Shock mount patterns on sides Through holes, 4 places Threaded inserts on base, 4 places POWER REQUIREMENTS 16 X .060-80 ©0.0930 Dia. Tapped Holes Mounting Holes 2.50-1.750 ~ 1.665 \circ 8 Watts at start-up for 5 minutes at +25° C 1,200 5 Watts at steady state +25°C Target Bandwidth: < 1 Hz Type 2 Loop, < 5 minutes 3.50 - 0.030 n 1.200 <u>~ 1.665</u> 1,750 Phase Noise (free-running) ١. 4 X 2-56 Temperature Stability (free-running) Threaded Inserts 0.000 15 Harmonics, PLL Products, Spurious - 0.443 --0.218 0.820 0,000 1.165 0.240 0000 0.240 250 - 0.400 CONN Function 1 <u>00</u> 0.160 Phase Lock Voltage ø٧ 0,80 (•) - 0.600 RP Out **RP Signal Opt** 00 0.160 Supply Voltage +V ALM Lock Alarm - 0.308 GND Ground, Case **REFINPUT** Reference Signal Jn Wenzel Associates, Inc. W Austin. Texas Title: 25 MHz-SC ULN Phase Lock Crystal Oscillator P/N: Drawn: Rev: Date: Ref 501-10136B 501-30692 02-28-17 -Tolerances: 0.XX Dec: 0.XXX Dec: FSCM: (except as noted) Page 1 of 1 62821 ±0.030" ± 0.010 " Dimensions are in inches

AUTH

VG

-1.490

- 1.250

-1.010

- 0.000

-1.010

-1.250

-1.490