INPUT Packaging Frequency 10 MHz, ±5 x 10⁻⁷ Mounting Level +7 dBm ±5 dB into 50 ohms OUTPUT Frequency Supply Voltage 100 MHz Level Warm-Up Power +13 dBm ±2 dB into 50 ohms STABILITY Output Phase Noise L(f) at +25° C **Total Power** (Free-Running) 100 Hz -125 dBc/Hz ADJUSTMENT 1 kHz -155 dBc/Hz Loop BW 10 kHz -170 dBc/Hz Aging $\pm 1 \times 10^{-6}$ per year after 30 days **CRYSTAL** operating, typical Type **Temperature Stability** SC-cut $\pm 5 \times 10^{-7}$ free-running from 0 to $\pm 50 \,^{\circ}$ C, (Ref. +25℃) Harmonics -30 dBc **Sub-Harmonics and Products** -50 dBc Non-Harmonic Spurious, typical -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

DATE REVISION RECORD REV 2-15-2010 Draft -Α 10-20-10 Noise, 1k,10k Machined aluminum housing Tapped holes on sides, 16 places Through holes, 4 places Threaded inserts on base, 4 places **POWER REQUIREMENTS** 16 X .060-80 Ø0.0930 Dia. +15 VDC ±5% Tapped Holes Mounting Holes 2.500 - 1.750 - 1.665 0 8 Watts at start-up for 5 minutes ÷ -1.2005 Watts at steady state +25°C Target Bandwidth: 60 Hz 3.50 - 0.000 Type 2 Loop - 1.200 -- 1.665 í 4 X 2-56 Threaded Inserts 1.165 0.800 0.385 0.000 0.218 0.443 0.800 1.250 0.240 0.000 - 0.400 CONN 1 - 0.160 V \odot \odot 0.80 - 0.000 RF Out 00 - 0.160 +V RF OUT 1 REF INPL ALM - 0.300 - 0.400 GND REF INPUT Wenzel Associates, Inc. M Austin, Texas Title: 100 MHz-SC SPR Phase Lock Crystal Oscillator P/N: Drawn: Rev: Date: 501-22074 10-20-10 Α 0.XX Dec: 0.XXX Dec: FSCM: Tolerances: (except as noted) 62821 ± 0.030 " ±0.010" Dimensions are in inches

DWN

Liz

Liz

- 1.490

- 1.250

- 1.010

- 0.000

-1.010

- 1.250

-1.490

Function

RF Signal Out Supply Voltage

Ground, Case

Ref:

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Alarm

Phase Lock Voltage

Reference Signal In

0.240

AUTH

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Vito