INPUT Frequency, Level 10 MHz, LVDS, differential **OUTPUTS** (2) Frequency, Level 10 MHz, +4 dBm ±3 dB into 50 ohms **STABILITY** Aging 5×10^{-10} /day after 24 hours operating, preceeded by 3 days operation 5 x 10⁻⁸ /year typical Phase Noise L(f), Static -105 dBc/Hz 1 Hz 10 Hz -135 dBc/Hz 100 Hz -155 dBc/Hz 1 KHz -163 dBc/Hz 10 KHz -165 dBc/Hz **G-Sensitivity** Tested at .01 g^2/Hz, 10 to 100 Hz Measured data at 12 Hz in 3 axes Temperature Stability, (Ref +25°C) $\pm 2 \times 10^{-8}$, -40° to +75°C ±5x10⁻⁹, -10° to +65°C Sub-Harmonics (5 MHz) -45 dBc minimum Input/Output PLL Rejection 1 Hz 15 dB Min. 10 Hz 35 dB Min 100 Hz 55 dB Min MECHANICAL Dimensions 4.0" x 4.75" x 1.7" maximum 4-40 threaded inserts, 6 places Connectors J3, J4 Type-N Male Output J2, J1 MIL-DTL-38999 Input and Power Internal: S4B-PH-K-S-(LF)(SN) S6B-PH-K-S-(LF)(SN) Programming Packaging Machined Aluminum Housing POWER REQUIREMENTS Warm-Up Power, typical 9 Watts for 5 minutes

+28 VDC +-5%, +32 Volts max 10 MHz SC-cut, select crystals (≥90°C) 3e-10/g per axis typical 2e-10/g per axis guaranteed 1e-10/g per axis guaranteed -04 Vibration Isolated, ~50Hz system Up to 95% at +30°C Conformally coat PCBs **Atmospheric Pressure** Operating to 13,500 feet Non-Op to 50,000 feet Designed to meet specifications after two half-sine pulses in two directions for each axis, 20ms duration (12 shocks Calibration enable: TTL Low (0V) Calibration not enabled: Smooth frequency transition on the loss of lock and reacquisition of input reference Will learn reference frequency with Cal Begins aging correction after locked for 14 Wenzel Associates, Inc. Austin, Texas Title: 10 MHz-SC Slow Transition, Low-G PLO Drawn: Rev: Date: Ref: В 26975 501-30019-XX 06-20-16 0.XX Dec: 0.XXX Dec: Tolerances: FSCM: (except as noted) Page 1 of 2 62821 ±0.030" ±0.010" Dimensions are in inches

REVISION RECORD

housing, connectors, supply, output, shock

DWN

Liz

Liz

Liz

AUTH

BH

BH

ΒY

REV

-

Α

В

Total Power, typical

Supply Voltage

CRYSTAL

Type -XX

-01

-02

-03

ENVIRONMENT

Relative Humidity

Shock, Vibration

OTHER

total), 5g each axis

Frequency Calibration

TTL High (5V)

Slow-Transition

Disciplined

pin.

days

5 Watts at +25°C

DATE

03-07-16

06-04-16

06-20-16

Initial Release

Supply

