

Oscillators offer very low integrated phase jitter



Mercury is now manufacturing quartz crystal clock oscillators with Differential LVPECL Square Wave & Differential LVDS Square Wave output logics in a miniature 5 x 3.2 x 1.2mm 6 pad ceramic surface mount package (HPK5361 & HDK5361 Series)

These high performance clock oscillators offer very low integrated phase jitter in the Femto second range. The LVPECL oscillator measures typically at 200fs from 12 KHz to 20 MHz, while the LVDS oscillator typically measures 300fs from 12 KHz to 20 MHz.

Although a typical stability over temperature of ± 50 ppm from -10°C to $+70^{\circ}\text{C}$ is most popular, ± 25 ppm from -40°C to $+85^{\circ}\text{C}$ is also available. Supply voltages of $+2.5\text{V} \pm 5\%$ or $\pm 3.3\text{V} \pm 5\%$ and a frequency range from 40 MHz to 200 MHz are offered.

Both RoHS Compliance & REACH Regulations are met for this series of oscillators.

The following is a typical phase noise plot for a 3HPK5361-A-125.000 LVPECL Oscillator: Applications include Infiniband, SATA, SAS, 2G/4G/10G/16G Fiber Channel, SONET to name a few.

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Source URL (retrieved on 01/25/2015 - 6:07pm):

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