

NEL CRYSTAL CLOCK OSCILLATORS

Application Note

Intel "Pentium" Processor

Clock Frequency (33.333MHz min.): 60MHz max; 66MHz max

Tr & Tf 0.8 to 2.0V: 0.15 nsec min; 1.5 nsec max

ToL @ 0.8V: 4 nsec min

ToH @ 2.0V: 4 nsec min

CL = 8pf max

Jitter = ± 250 psec max (No power spectrum between 500kHz & fo/3)

Technology = 0.8 μ BiCMOS

Some signals clock off of rising edges

Temperature range: 0 to 85°C

Vcc = 5.0V \pm 5%

A calculation of symmetry at 1.5V shows 60/40 symmetry will be well within spec.

The Pentium Processor can execute 2 instructions per clock cycle.

There is no Intel 586 processor.

Based on Intel Pentium Processor Preliminary data sheet received May 17, 1993