

Table 1-6 HP 3852A/3853A Specifications

HP 3852A Mainframe

Real Time Clock:

Accuracy: $\pm 0.004\%$ of elapsed time since setting ± 2 msec at temperature of setting.

Temperature Coefficient:

Add as an additional accuracy error, where T_{dif} is the absolute difference between the operating temperature and the temperature when the time was set.

$\pm ((4.5 \times 10^{-6})\% \text{ of elapsed time since setting}) * T_{dif}^2$

Resolution: 1 msec

Nonvolatile Lifetime: 4 years

Pacer:

Programmable Intervals: 1 μ sec to 4.19 sec with 0.25 μ sec resolution.

Accuracy (First Pulse after Trigger):

Table 1-6 HP 3852A/3853A Specifications (Cont.)

Programmed Delay $\pm 0.005\%$ of delay + (0 to 1 μsec)

Accuracy (Additional Pulses):

Programmed pulses interval $\pm 0.005\%$ of pulse interval ± 50 nsec

Number of Pulses: 1 to 65,535 or continuous.

Pulse Widths: 0.5 μsec nominally (low true)

Backplane Trigger Delay: Maximum delay between System Trigger In and actual trigger on the backplane,

200 nsec

Physical Characteristics:

Size: 22.225 cm (8 3/4 in) H (with feet removed) X 42.55 cm (16 3/4 in) W X 50.8 cm (20 in) D. Add 1.27 cm (0.5 in) for feet.

Weight: 16.8 kg (37 lbs) without function modules; 31.8 kg (70 lbs) loaded.

HP 3853A Extender

Backplane Trigger Delay: Maximum delay between HP 3852A backplane trigger and the actual trigger on the HP 3853A Extender backplane,

75 nsec + 5 nsec per meter of extender control cable (between mainframe and extender)

Physical Characteristics:

Size: 22.225 cm (8 3/4 in) H (with feet removed) X 42.55 cm (16 3/4 in) W X 50.8 cm (20 in) D. Add 1.27 cm (0.5 in) for feet.

Weight: 15.0 kg (33 lbs) without function modules; 32.7 kg (72 lbs) loaded.