

Table 1-1 (cont)

| Characteristics | Performance Requirements | | | |
|---|---|------------------------|------------------------|------------------------|
| Trigger Level Range | Level may be set to any point of trace that can be displayed. | | | |
| NORM Mode | | | | |
| EXT Source | | | | |
| EXT/10 Source | At least ± 12 V, 24 V p-p. | | | |
| Variable Holdoff Range | Increases sweep holdoff time by at least a factor of 8 at maximum holdoff. ^a | | | |
| LF REJ Lower 3 dB point | 30 kHz $\pm 25\%$. ^a | | | |
| HF REJ 3 dB point | 30 kHz $\pm 25\%$. ^a | | | |
| HORIZONTAL DEFLECTION SYSTEM | | | | |
| Sweep Rates Calibrated Range Sweep | 0.5 s per division to 0.05 μ s per division in a 1-2-5 sequence of 22 steps. The X10 magnifier extends maximum sweep speed to 5 ns per division. ^a | | | |
| Accuracy | Unmagnified | Magnified | | |
| | X1 | X5 | X10 | X50 |
| +15°C to +35°C | $\pm 3\%$ | $\pm 4\%$ | $\pm 4\%$ | $\pm 5\%$ |
| 0°C to +40°C | $\pm 4\%$ ^a | $\pm 5\%$ ^a | $\pm 5\%$ ^a | $\pm 8\%$ ^a |
| | Sweep accuracy applies over the center eight divisions. Exclude the first 25 ns of the sweep for magnified sweep speeds and anything beyond the 100th magnified division. | | | |
| SEC/DIV Variable Range | Continuously variable and uncalibrated between calibrated step settings of the SEC/DIV switch. Decreases calibrated sweep speeds by at least a factor of 2.5. | | | |
| Sweep Linearity | Unmagnified | Magnified | | |
| | X1 | X5 | X10 | X50 |
| | $\pm 5\%$ | $\pm 7\%$ | $\pm 7\%$ | $\pm 9\%$ |
| POSITION Control Range | Start of sweep to 10th division in X1, to 50th division in X5, to 100th in X10, and to 500 division in X50 will position past the center vertical graticule line. | | | |
| Registration between Magnified and Unmagnified traces | 0.2 division or less (measured when switching from Magnified to Unmagnified), aligned to center vertical graticule line. ^a | | | |
| Trace Shift between ALT and MAG Modes | Less than 1 division. ^a | | | |

^aPerformance requirement not checked in manual.