

Table 1-1. 8552B Specifications

SPECIFICATIONS

FREQUENCY

Resolution:

Bandwidth: IF bandwidths of 10 Hz to 300 kHz provided in a 1, 3 sequence.

Bandwidth Accuracy: Individual IF bandwidths' 3 dB points calibrated to $\pm 20\%$ (10 kHz bandwidth $\pm 5\%$).

Bandwidth Selectivity: 60 dB/3 dB IF bandwidth ratio $< 11:1$ for IF bandwidths from 10 Hz to 3 kHz and $< 20:1$ for IF bandwidths from 10 kHz to 300 kHz, 60 dB points separated by < 100 Hz for 10 Hz bandwidth.

AMPLITUDE

Absolute Amplitude Calibration Range:

Log: From -130 to $+10$ dBm, 10 dB/div on a 70 dB display or 2 dB/div expand below LOG reference.

H04: From -23 to $+117$ dBV, 10 dB/div on a 70 dB display or 2 dB/div expand below LOG reference.

Calibrator Output:

Amplitude: -30 dBm ± 0.3 dB; $+77$ dB μ V (H04)

Standard/H04-8552B: 7.07 mV into 50 ohms

H01/H02-8552B: 8.66 mV into 75 ohms

Amplitude Accuracy:

Switching between bandwidths (at 20°C):

	Log	Linear
0.1 - 300 kHz	± 0.5 dB	$\pm 5.8\%$
0.03 - 300 kHz	± 1.0 dB	$\pm 12.0\%$
0.01 - 300 kHz	± 1.5 dB	$\pm 19.0\%$
Amplitude Display	± 0.25 dB/dB	$\pm 2.8\%$
	but not more than ± 1.5 dB over full 70 dB display range	of full 8 div. deflection

GENERAL

Scan Time: 16 internal scan rates from 0.1 ms/div to 10 sec/div in a 1, 2, 5 sequence, or Manual Scan.

Scan Time Accuracy:

0.1 ms/div to 20 ms/div: $\pm 10\%$

50 ms/div to 10 sec/div: $\pm 20\%$

Power Requirements: 115 or 230 volts $\pm 10\%$, 50 to 60 Hz, normally less than 225 watts for complete analyzer (varies with plug-in units used).

Weight: Model 8552B IF Section: Net 9 lb., 11 oz., (4.4 kg.)

Scan Characteristics

Scan Mode:

Internal: Analyzer repetitively scanned by internally generated ramp; synchronization selected by Scan Trigger.

Single: Single scan actuated by front panel push-button.

External: Scan determined by 0 to +8 volt external signal; scan input impedance > 10 k Ω .

Blanking: -1.5 V external blanking signal required.

Manual: Scan controlled by position of Manual Scan knob.

Scan Trigger: For Internal scan mode, select between:

Auto: Scan free runs.

Line: Scan synchronized with power line frequency.

External: Scan synchronized with > 2 volt (20V max) trigger signal. Polarity selected by internal switch (on assembly A6) of 8552B IF Section. Scan triggers with negative impulse when switch in NORMAL position.

Video: Scan internally synchronized to envelope of RF input signal (signal amplitude of 1.5 major divisions peak-to-peak required on display section CRT).

Penlift Characteristics

Penlift output: 0 to +14 volts (0V pen down). Available in Internal and Single Scan modes and Auto, Line and Video Scan Trigger.