

Table 1-1. Model 8443A/B Specification

NOTE	SPECIFICATIONS
Numbered specifications coincide with numbered performance tests in Section IV.	Function:
TRACKING GENERATOR	Restore Signal: Counter reads frequency of an unknown signal to counter accuracy when marker is placed anywhere on signal response. Typically 15 dB signal-to-noise ratio required for restored operation.
1. Frequency Range: 100 kHz to 110 MHz. (Output frequency tracks the 8553/8552 Spectrum Analyzer tuning.)	Track Analyzer: RF OUTPUT tracks spectrum analyzer tuning for swept frequency at marker on spectrum analyzer CRT.
2. Amplitude Range: <-120 dBm to +10 dBm in 10 and 1 dB steps with a continuous 1.2 dB vernier.	External Inputs:
3. Amplitude Accuracy (flatness): ±0.5 dB. Output attenuators 10 dB steps ±0.2 dB, 1 dB steps ±0.1 dB. Absolute: 0 dBm at 30 MHz ±0.3 dB.	10. Counter: 10 kHz to 120 MHz, 50 ohms, -10 dBm minimum, +25 dBm maximum.
4. Output Impedance: 50 ohms, AC coupled, reflection coefficient ≤0.09 (1.2 SWR); output <0 dBm.	11. Time Base: 1 MHz, 40 ohms, 1 Vrms minimum.
*COUNTER	Auxiliary Outputs:
Modes:	12. Time Base: 1 MHz, 1 V rms nominal.
Marker: Counter reads frequency at marker position on the Spectrum Analyzer Display.	13. Digital Frequency Output: 8,4,2,1, code: positive logic.
Scan Hold: Scan starts at left edge of display and stops at marker. Counter measures frequency continually.	
External: Counter measures frequency of signal at counter input.	
5. Measurement Range: 100 kHz to 110 MHz. Display; 7 digits with 1 digit overrange.	GENERAL:
6. Resolution (gate time): 1 kHz (1 mS), 100 Hz (10 mS) and 10 Hz (100 mS).	Temperature Range: Operation 0 to 55°C, storage, -40 to +75°C.
7. Accuracy: ±1 count ± time base accuracy.	Power: 115 V or 230 V, 48-440 Hz, 75 watts. (When the instrument is in standby power consumption is 30 watts.)
8. Time Base Aging Rate: <3 x 10 ⁻⁹ per day. (0.3 Hz/day) after warmup.	RFI: Meets or exceeds MIL-I-6181D.
9. Time Base Temperature Drift: <3 x 10 ⁻⁸ (3 Hz) variation, 0 to 55°C.	DIMENSIONS: 18-3/4 L x 16-3/4 W x 3-7/8 H.
	WEIGHT: 24 lbs, 5 oz. (11,02 kg)
	* 8443A only