

**Receiver**

**Frequency Range:** 5 Hz to 500 MHz  
**Input Range:** 0 dBm @ ATT = 20 dB  
 -20 dBm @ ATT = 0 dB  
**IF Bandwidth:** 2 Hz, 20 Hz, 200 Hz, 2 kHz, 4 kHz  
**Noise Level:** -130 dBm @ IFBW=20 Hz, ATT=0 dB,  
 frequency ≥ 100 kHz  
**Maximum Input Level:** 0 dBm  
**Impedance:** 50 Ω  
**Crosstalk:** < -100 dB  
**Dynamic Accuracy:** ± 0.02 dB, ± 0.12° (input level -10 to -50 dB,  
 20 Hz IFBW)  
**Delay Characteristics:**  
**Aperture Frequency:** 0.5 to 20%  
**Display Range:** 10 ps to 500 s  
**Accuracy:** (Phase accuracy)/(360 × aperture)  
**Size:** 425 mm W × 235 mm H × 553 mm D (16.75 in × 9.25 in ×  
 21.77 in)  
**Weight:** 28 kg (61.6 lb)

**HP 8751A Accessories**

**HP 87511A 50 Ω S-Parameter Test Set**

**HP 87511B 75 Ω S-Parameter Test Set**

The HP 87511A/B S-Parameter Test Sets provide the capability to measure reflection and transmission characteristics (including S-parameters) of two port devices in either direction with a single connection. The frequency range of the HP 87511A/B test sets is 100 kHz to 500 MHz. The test sets are controlled from the HP 8751A.

**HP 87511A/B Specifications**

	HP 87511A	HP 87511B
<b>Impedance</b>	50 Ω	75 Ω
<b>Frequency range</b>	100 kHz to 500 MHz	100 kHz to 500 MHz
<b>Directivity</b>	≥ 35 dB from 300 kHz to 500 MHz	33 dB from 300 kHz to 500 MHz
<b>Typical tracking</b> S21, S12 S11, S22	± 1 dB, ± 5° ± 1 dB, ± 5°	± 1 dB, ± 5° ± 1 dB, ± 5°
<b>Nominal insertion loss</b> RF input to Port 1,2 RF input to R,A,B Port 1,2 to A,B	13 dB 19 dB 6 dB	19 dB 31 dB 6 dB
<b>Max operating level</b>	+20 dBm	+20 dBm
<b>Damage level</b>	+23 dBm	+23 dBm
<b>Size</b>	426 W × 90 H × 553 mm D	426 W × 90 H × 553 mm D
<b>Weight</b>	5.7 kg	5.7 kg

**HP 87512A 50 Ω Transmission/Reflection Test Kit**

**HP 87512B 75 Ω Transmission/Reflection Test Kit**

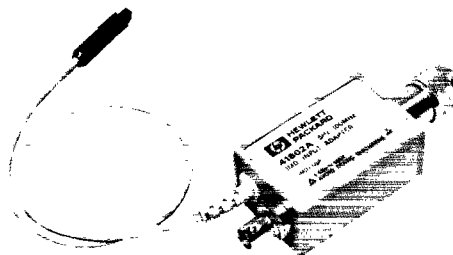
The HP 87512A/B transmission/reflection test kits provide the capability to measure transmission and reflection characteristics. The frequency range of the HP 87512A/B test kits is dc to 2 GHz.

**HP 87512A/B Specifications**

	HP 87512A	HP 87512B
<b>Impedance</b>	50 Ω	75 Ω
<b>Insertion loss</b>	10 ± 1 dB typical	
<b>Equivalent directivity</b>	> 40 dB typical	
<b>Equivalent source match</b>	> 30 dB typical	> 25 dB typical

**HP 41802A 1-MΩ Input Adapter**

The HP 41802A 1 MΩ input adapter provides the capability to perform high-impedance measurement using HP network and spectrum analyzers. The frequency range of the HP 41802A input adapter is 5 Hz to 100 MHz. Passive probe is required for measurement (probing).



HP 41802A

**HP 41802A Specifications**

**Frequency Range:** 5 Hz to 100 MHz  
**Adaptor Gain:** 0 dB ± 0.5 dB @ 1 MHz  
**Input R, C (typical):** 1 MΩ, 12 pF  
**1dB Gain Compression:** 0.32 V rms (+3 dBm, 50 Ω terminated)  
**Damage Level:** 2 V rms, ± 50 Vdc  
**Size:** 28 mm H × 42 mm W × 100 mm D (1.1 in × 1.65 in × 3.94 in)  
**Weight:** 400 g (0.88 lb)

**Other Accessories**

- HP 85031B Precision 7 mm Calibration Kit
- HP 85032B 50 Ω Type-N Calibration Kit
- HP 85033C Precision 3.5 mm Calibration Kit
- HP 85036B 75 Ω Type-N Calibration Kit
- HP 11850C 50 Ω Power Splitter
- HP 11850D 75 Ω Power Splitter
- HP 11853A 50 Ω Type-N Accessory Kit
- HP 11854A 50 Ω BNC Accessory Kit
- HP 11855A 75 Ω Type-N Accessory Kit
- HP 11856A 75 Ω BNC Accessory Kit

**Key Literature**

HP 8751A Network Analyzer Data Sheet, p/n 5952-2370.

**Ordering Information**

- HP 8751A Network Analyzer
  - Opt 001 High-Stability Frequency Reference
  - Opt 002 HP Instrument BASIC and 1 MB RAM
  - Opt 907 Front Handle Kit
  - Opt 908 Rack Mount Kit
  - Opt 909 Rack Flange and Handle Kit
  - Opt 910 Extra Operating Manual
  - Opt 915 Add Service Manual
  - Opt W30 Extended Repair Service (see page 663)
- HP 87511A 50 Ω S-Parameter Test Set
  - Opt 001 N-Type Port
- HP 87511B 75 Ω S-Parameter Test Set
  - Options (common for the HP 87511A/B)
    - Opt 907 Front Handle Kit
    - Opt 908 Rack Mount Kit
    - Opt 909 Rack Flange and Handle Kit
    - Opt 910 Extra Operating Manual
- HP 87512A 50 Ω Transmission/Reflection Test Kit
- HP 87512B 75 Ω Transmission/Reflection Test Kit
- HP 41802A 1 MΩ Input Adapter
- HP 41800A Active Probe