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, 8 kHz
Noise level: −130 dBm @ IFBW=20 Hz, ATT=0 dB, frequency≥100 kHz
Maximum input level: 0 dBm
Impedance: 50Ω
Crosstalk: <−100 dB
Dynamic accuracy: ±0.05 dB, ± 0.3° (Input level −10 to −60 dB, 10 Hz IFBW)
Delay characteristics:
Aperture frequency: 0.5 to 20%
Display range: 10 ps to 500 s
Accuracy: (Phase accuracy)/(360 x aperture)
Size: 425W x 235H x 553mmD
Weight: 28kg

HP 8751A Accessories

HP 87511A 50 Ω S-parameter Test Set
HP 87511B 75 Ω S-parameter Test Set

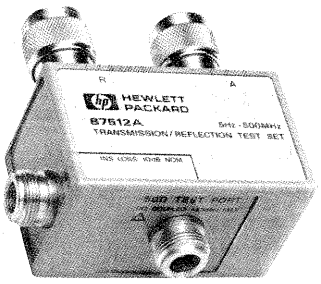
The HP 87511A/B S-parameter test sets provide the capability to measure reflection and transmission characteristics (including S-parameters) of 2 port devices in either direction with a single connection. The frequency range of the HP 87511A/B test sets is 100 kHz to 500 MHz. The test sets are controlled from the HP 8751A.

HP 87511A/B Specifications

	HP 87511A	HP 87511B
Impedance	50Ω	75Ω
Frequency range	100 kHz - 500 MHz	100 kHz - 500 MHz
Directivity	≥35 dB from 300 kHz to 500 MHz	33 dB from 300 kHz to 500 MHz
Typical tracking S21, S12 S11, S22	 ±1 dB, ±5° ±1 dB, ±5°	 ±1 dB, ±5° ±1 dB, ±5°
Nominal insertion loss 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
Max operating level	+20 dBm	+20 dBm
Damage level	+23 dBm	+23 dBm
Size	90H x 426W x 553mmD	90H x 426W x 553mmD
Weight	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 5 Hz to 500 MHz.

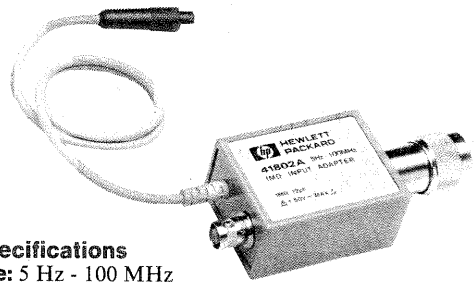


HP 87512A/B Specifications

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

HP 41802A 1 MΩ Input Adaptor

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



HP 41802A Specifications

Frequency range: 5 Hz - 100 MHz
Adaptor gain: 0 dB ±0.5 dB @ 1 MHz
Input R, C (typical): 1 MΩ, 12pF
1dB Gain compression: 0.32 V_{rms} (+ 3dBm, 50Ω terminated)
Damage level: 2 V_{rms}, ± 50 Vdc
Size: 28H x 42W x 100mmD
Weight: 400 g

Other Accessories

HP 85031B Precision 7mm calibration kit
HP 85032B 50Ω type-N calibration kit
HP 85033C Precision 3.5mm calibration kit
HP 85036B 75Ω type-N calibration kit
HP 11850C 50Ω power splitter
HP 11850D 75Ω power splitter
HP 11853A 50Ω type N accessory kit
HP 11854A 50Ω BNC accessory kit
HP 11855A 75Ω type N accessory kit
HP 11856A 75Ω BNC accessory kit

Ordering Information

HP 8751A Network analyzer
Opt 001 High-stability frequency reference
Opt 002 HP Instrument BASIC and 1 Mbyte RAM
Opt 907 Front handle kit
Opt 908 Rackmount kit
Opt 909 Rack flange and handle kit
Opt 910 Extra operating manual
Opt 915 Add service manual
HP 87511A 50Ω S-parameter test set
Opt 001 N-type port
HP 87511B 75Ω S-parameter test set
Options (common for the HP 87511A/B)
Opt 907 Front handle kit
Opt 908 Rackmount kit
Opt 909 Rack flange and handle kit
Opt 910 Extra operating manual
HP 87512A 50Ω transmission/reflection test kit
HP 87512B 75Ω transmission/reflection test kit
HP 41802A 1MΩ input adaptor
HP 41800A Active probe