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HP 43961A



HP 87512A

5 HP 43961A RF Impedance Test Kit

The HP 43961A RF Impedance Test Kit provides the capability to measure impedance parameters of 1-port devices with the HP 4395A Option 010 (100 kHz to 500 MHz) or the HP 4396B Option 010 (100 kHz to 1.8 GHz). The test port of the HP 43961A is a 7-mm connector and can be used with the HP 16191A, HP 16192A, or HP 16193A test fixture. The HP 43961A includes OPEN/SHORT/LOAD calibration standards, and the test fixtures such as HP 16192A are optional.

Frequency Range: 100 kHz to 1.8 GHz (100 kHz to 500 MHz with HP 4395A)
Measurement Parameters: $|Z|$, $|Y|$, θ , R, X, G, B, Cp, Cs, Lp, Ls, Rp, Rs, D, Q, $|\Gamma|$



HP 87511A

HP 87511A/B S-Parameter Test Sets

The HP 87511A/B S-Parameter Test Sets provide the capability to measure S-parameters of 2-port devices from 100 kHz to 500 MHz with an HP network analyzer. The test ports of the HP 87511A are 50 Ω precision 7-mm connectors (Option 001: type N(f)), and the test ports of the HP 87511B are 75 Ω type N(f) connectors. Calibration kits are not included.

Frequency Range: 100 kHz to 500 MHz
Test Port Impedance: HP 87511A, 50 Ω ; HP 87511B, 75 Ω

	HP 87511A	HP 87511B
Directivity		
100 kHz to 300 kHz	30 dB	30 dB
300 kHz to 200 MHz	40 dB	33 dB
200 MHz to 500 MHz	35 dB	33 dB
Nominal Insertion Loss		
RF IN to port 1, 2	13 dB	19 dB
RF IN to R, A, B	19 dB	31 dB

Size: 432 mm W x 90 mm H x 495 mm D
Weight: Approx. 5.7 kg

HP 87512A/B Transmission/Reflection Test Kits

The 87512A/B Transmission/Reflection Test Kits provide the capability to measure the reflection and transmission characteristics of 50 or 75 Ω devices up to 2 GHz with an HP network analyzer. The test port of the HP 87512A is a 50 Ω type N(f) connector, and the test port of the HP 87512B is a 75 Ω type N(f) connector. The HP 87512A/B include precision SHORT/LOAD termination for calibration.

Frequency Range: DC to 2 GHz
Test Port Impedance: HP 87512A, 50 Ω ; HP 87512B, 75 Ω
Equivalent Directivity: 40 dB (typical)
Insertion Loss: 10 dB \pm 1 dB



HP 41800A

HP 41800A Active Probe

The HP 41800A Active Probe provides high input impedance from 5 Hz to 500 MHz. The HP 41800A is a valuable tool when used with a network and spectrum analyzer for circuit signal analysis.

Specifications

Bandwidth: 5 Hz to 500 MHz
Output Connector: 50 Ω type N male
Input R,C (typical): 100 k Ω , 3 pF (probe alone); 1 M Ω , 1 pF (with 10:1, 100:1 divider)
Frequency Response relative to 50 MHz: \pm 1 dB @ 50 Hz to 200 MHz
Average Noise Level: 10 nV/ $\sqrt{\text{Hz}}$ @ \geq 300 kHz
Second Harmonic Distortion (typical): $<$ -50 dBc @ 20 dBm (250 MHz) input
Third-Order Intermodulation Distortion (typical): $<$ -70 dBc @ -26 dBm two signal input
1 dB Gain Compression: $>$ +3 dBm input @ 500 MHz