Spectrum Analyzer Accessories

HP 8447D

HP 11975A

HP 8449B

HP 8447 Series Amplifier (9 kHz to 1300 MHz)

These amplifiers feature low noise and wide bandwidths. They are ideal for improving spectrum analyzer sensitivity and noise figure while providing input isolation. Broad frequency coverage, flat frequency response, and low distortion ensure accurate measurements. See page 30 for specification summary.

HP 11975A Amplifier (2 to 8 GHz)

Used in stimulus-response systems, this amplifier allows a wide variety of sources to be leveled to ±1 dB and amplitude calibrated from +6 dBm to +16 dBm. As a preamplifier, its small signal gain varies between 9 and 15 dB depending upon frequency.

HP 8449B Preamplifier (1 to 26.5 GHz)

This high-gain, low-noise preamplifier increases the sensitivity of any RF/microwave spectrum analyzer for detection and analysis of very low level signals. The improved sensitivity can dramatically reduce measurement time. See page 31 for specification summary.

Spectrum Analyzer Accessories

HP 11694A 75 Ω Matching Transformer (3 to 500 MHz)

Allows measurements in 75 Ω systems while retaining amplitude calibration with a 50 Ω spectrum analyzer input. VSWR is less than 1.2; insertion loss is less than 0.75 dB. See Option 001 and 002 for 75 Ω versions of the HP 8590 series spectrum analyzer. Connectors are type BNC (m) 50Ω to BNC (f) 75Ω.

HP 8721A Directional Bridge (100 kHz to 100 MHz)

Used in return-loss measurements made with a swept source such as a tracking generator and spectrum analyzer. This 50 Ω bridge (75 Ω option) has a 6 dB insertion loss and 6 dB coupled to the auxiliary arm. The frequency response is ±0.5 dB (0.1 to 110 MHz); directivity is >40 dB (1 to 110 MHz) and load-port return loss is >30 dB; maximum input power is + 20 dBm. See HP 86205/207A RF bridges for reflection measurements above 110 MHz.

HP 85024A High Frequency Probe

Makes in-circuit measurements easy. Input capacitance of only 0.7 pF shunted by 1 MΩ resistance permits high frequency probing without adverse loading of the circuit under test. Excellent frequency response and unity gain guarantee highly accurate swept measurements. High sensitivity and low distortion levels allow measurements that take full advantage of the analyzer's dynamic range. Directly compatible with many HP RF spectrum and network analyzers.

HP 41800A Active Probe

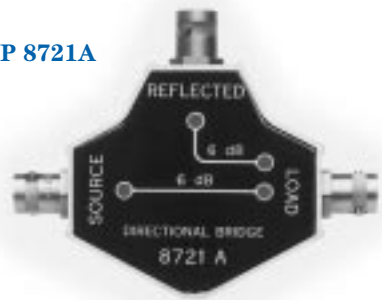
This probe offers high input impedance from 5 Hz to 500 MHz. It works with many HP spectrum analyzers to evaluate the quality of circuits by measuring spurious level, harmonics, and noise. Low input capacitance offers probing with negligible circuit loading for precise, in-circuit measurements of audio, video, HF, and VHF bands.

HP 11742A Blocking Capacitor

The HP 11742A blocking capacitor blocks dc signals below 45 MHz and passes signals up to 26.5 GHz. Ideal for use with high frequency oscilloscopes or in biased microwave circuits, the HP 11742A will suppress low frequency signals that can damage expensive measuring equipment or affect the accuracy of your RF and microwave measurements.

HP 11694A

HP 8721A



Ordering Information

HP 8447A: 0.1 to 400 MHz amplifier

HP 8447D: 0.1 to 1300 MHz amplifier

HP 8447F: 9 kHz to 1300 MHz amplifier

HP 11975A: 2 to 8 GHz amplifier

HP 8449B: 1 to 26.5 GHz preamplifier

Hp 87405A: Preamplifier

HP 11867A: dc to 1.8 GHz RF limiter

HP 11693A: 0.1 to 12.4 GHz microwave limiter

HP 11694A: 75 Ω matching transformer

HP 11852B: 75Ω minimum-loss pad
Option 004: 50Ω Type-N (m), 75Ω Type-N (f)

HP 8721A: Directional bridge
Option 008: 75 Ω impedance

HP 85024A: High-frequency probe

HP 41800A: 5 Hz to 500 MHz active probe