

Specifications Summary

Source Characteristics

Frequency

Range: 300 kHz to 1300 MHz

Resolution: 1 Hz

Accuracy: < 5 ppm

Output

Power range: 0 to 16 dBm

w/ attenuator -60 to 13 dBm

75 Ω reduces output by 3 dB

Resolution

Port flatness: +/- 1.0 dB

w/attenuator +/- 2.0 dB

w/meter correction +/- 0.3 dB

Signal purity

Harmonics: < -30 dBc

Spurious: < 30 dBc

Phase noise: < 67 dBc/Hz, at

10 kHz (typical)

Receiver Characteristics

Frequency range

Narrowband: 300 kHz to 1300 MHz

Broadband: 10 MHz to 1300 MHz

Dynamic range

50 Ω Narrowband: > 90 dB

Broadband: > 65 dB

75 Ω Narrowband: > 87 dB

Broadband: > 63 dB

Maximum input

Narrowband: 10 dBm, 0.5 dB compression

Broadband: 16 dBm, 0.5 dB compression

Input damage level: 20 dBm

Test Set Characteristics

Test port match: 20 dB

System directivity: 40 dB

RF Connectors

Test ports: 50 Ω Type N(f)

75 Ω Type N(f)

Physical Characteristics

Size: 180 mm H x 430 mm W x 480 mm D (7 in x 17 in x 18.75 in)

Weight: Net, 20.5 kg (45 lbs); shipping, 25 kg (55 lbs)

Detectors/Bridges

External detectors (50 and 75 Ω) and bridge are available for remote device measurements. An unmodulated dc detection mode measures the microwave power directly without using modulation techniques.

HP 86200A 50 Ω Scalar Detector

An external scalar detector for use when measuring external 50 Ω devices.

HP 86201A 75 Ω Scalar Detector

An external scalar detector for use when measuring external 75 Ω devices.

HP 86205A 50 Ω Bridge

An external directional bridge which offers high directivity and excellent port match designed for 50 Ω device measurements.

HP 86207A 75 Ω Bridge

An external directional bridge which offers high directivity and excellent port match designed for 75 Ω device measurements.

Upgrade Kits

The following upgrade kits add optional measurement capability to existing HP 8711A network analyzers.

HP 86223A Attenuator Upgrade Kit

Provides the necessary components to retrofit an HP 8711A with a 60 dB step attenuator (Option 1E1). Includes installation at an HP service center. Also available as HP p/n 08711-60060.

HP 86224A IBASIC Upgrade Kit

Provides the necessary components to retrofit an HP 8711A with IBASIC capabilities (Option 1C2). Includes installation at an HP service center. Also available as HP p/n 08711-60061.

HP C1405A/ABA DIN Keyboard

PC keyboard to enhance editing capability (Option 1CL).

