
HP 8712C and HP 8714C RF Network Analyzers

The HP 8712C and HP 8714C are easy-to-use RF network analyzers optimized for production measurements of reflection and transmission parameters. The instrument integrates an RF synthesized source, transmission/reflection test set, multi-mode receivers, and display in one compact box.

The source features 1 Hz resolution, 50 ms (or faster) sweep time, and up to +16 dBm output power.

The three-channel, dual mode receivers provide dynamic range of greater than 100 dB in narrowband measurement mode. For measurements of frequency-translating devices, the network analyzer features broadband internal and external detector inputs. The receivers incorporate digital signal processing and microprocessor control to speed operation and measurement throughput.

Two independent measurement channels and a large CRT display the measured results of one or two receiver channels in several user-selectable formats. An external VGA monitor can be connected to the rear panel for enhanced measurement viewing in color.

Measurement functions are selected with front panel hardkeys and softkey menus. Measurements can be printed or plotted directly with a compatible peripheral. Instrument states can be saved to the internal floppy disk, internal non-volatile memory, or internal volatile memory. Built-in service diagnostics are available to simplify troubleshooting procedures.

Measurement calibrations and data averaging provide performance improvement and flexibility. Measurement calibrations consist of normalizing data, utilizing the internal factory calibration, or calibrating with external standards. Measurement calibration reduces errors associated with directivity, frequency response, and source match. Directivity is corrected to 40 dB and source match to 30 dB for improved measurements.

How to Use This Guide

The first 7 chapters of this guide explain how to perform measurements, calibrate the instrument, and use the most common instrument functions.

Chapters 8 through 12 are reference material. Use these chapters to look up information such as front panel features, specific key functions and specifications.

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