

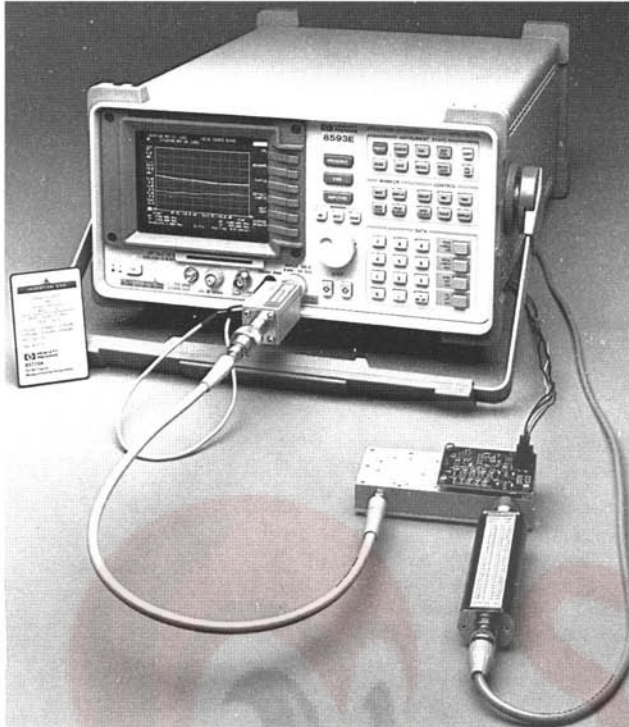
Signal Analyzers

240

Accessories for Noise Figure and Scalar Measurements

HP 85630A
HP 85640A
HP 85714A
HP 85719A

- Noise-figure measurement personality
- High-performance tracking sources
- Scalar measurement personality
- Scalar test set for transmission/reflection measurements



HP 85719A

Accessories for Noise-Figure Measurements

The HP 85719A noise-figure measurements personality adds unique capability to an HP 8590 E-series spectrum analyzer with the Option 119 noise-figure card. Combined with the HP 346B noise source and HP 87405A preamplifier, the measurement personality and spectrum analyzer provide displayed swept noise-figure and gain measurements from 10 MHz to 2.9 GHz. Features include one-point measurement capability for quick results, noise-figure and spectrum analyzer mode-switching for stray signal detection, selectable measurement bandwidths to directly measure narrowband devices, and a repeatability calculator to determine measurement time and repeatability tradeoffs.

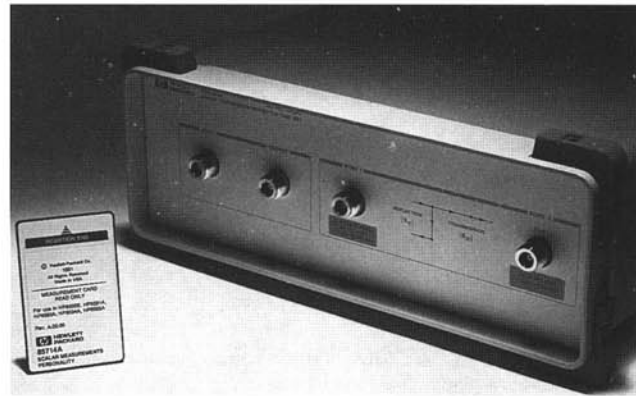
The noise-figure personality makes use of many features found in the spectrum analyzer. For example, the save/recall functions and the memory-card reader are used to store measurement data, states, displays and ENR data tables. Marker functions make it easy to read noise-figure and gain measurements for the entire sweep, and a menu-driven interface makes the entire system easy to use.

Accessories for Scalar Network Analysis

A variety of accessories are designed to enhance HP spectrum analyzers by adding scalar measurement capability. These powerful solutions allow you to meet both your scalar-network analysis and spectrum analysis needs.

HP 85640A Portable Tracking Generator

This portable tracking generator provides the HP 8560 EC-series spectrum analyzers with scalar measurement capability from 300 kHz to 2.9 GHz. See page 262.



HP 85630A and HP 85714A

HP 85714A Scalar Measurement Personality HP 85630A Scalar Transmission/Reflection Test Set

The HP 85714A is a downloadable program that enhances an HP 8590 series spectrum analyzer and tracking generator for transmission measurements. The addition of an HP 85630A scalar test set provides the user interface with a powerful yet economical transmission/reflection measurement system.

The scalar measurement personality adds a number of useful features to the scalar/spectrum analyzer system. These include guided OPEN/SHORT and THRU calibration, pass/fail limit line testing, an enhanced 120 dB display for high, dynamic-range measurements, a tabular display format and one-button measurements for 3 or 6 dB bandwidth, insertion loss/gain, shape factor, Q, and center frequency measurements.

The scalar test set allows you to view transmission and reflection data simultaneously on the screen, so you can make adjustments on a device-under-test while monitoring the results. You can also make calibrated transmission and reflection measurements on a device using a single setup, without the usual need to recalibrate and reconfigure as with spectrum-analyzer-only systems.

Other capabilities provided by the test set include a reflection coefficient measurement marker, VSWR measurement markers, return loss measurement, automatic switching between transmission and reflection mode and source attenuation.

Ordering Information

	Price
HP 85630A Scalar Transmission/Reflection Measurement Test Set	\$5,410
HP 85640A Portable Tracking Generator	\$8,730
HP 85714A Scalar Measurement Personality	\$1,040
HP 85719A Noise-Figure Measurements Personality	\$1,740
HP 8590 E-Series Spectrum Analyzers	
Opt 119 Noise-Figure Card	+ \$1,740
HP 346B Noise Source	\$1,790
HP 87405A Preamplifier	\$1,920