

KEYSIGHT TECHNOLOGIES (AGILENT HP)

8714C

The Keysight (Agilent HP) 8714C is an RF Economy Vector Network Analyzer covering a frequency range from 300 kHz to 3 GHz. Featuring an integrated transmission/reflection test set, a synthesized 1 Hz resolution source, and a rapid 50 ms/sweep real-time sweep speed, it is optimized for high-throughput RF manufacturing, testing, and service. It offers dual narrowband and broadband detection, an internal 3.5-inch floppy disk drive, support for Instrument BASIC (IBASIC), and a VGA video interface.

SPECIFICATIONS

General

Interfaces	GPIB (IEEE-488.2), RS-232, Parallel (Centronics), VGA video output, LAN (with Option 1F7)
Display	9-inch monochrome CRT with external VGA color monitor support

Physical

Operating Temperature	0 to 55 °C °C
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Source (Stimulus)

Frequency Range	300 kHz to 3 GHz
Frequency Resolution	1 Hz
Standard Frequency Accuracy	±5 ppm

Receiver

Frequency Range (Receiver)	300 kHz to 3 GHz
Narrowband System Dynamic Range	100 dB
Broadband System Dynamic Range	66 dB

Measurement Port Characteristics

Number of Test Ports	2
Standard Test Port Impedance	50 Ω
Standard Port Connector Type	Type-N (female)

Measurement Capabilities & Features

Measurement Parameters	Transmission (S21), Reflection (S11)
Measurement Formats	Log Magnitude, Phase, Delay (with AM delay option), Polar, Smith Chart, SWR, Linear Magnitude
Sweep Types	Linear, Log, List, Power
Number of Display Channels	2 (simultaneous transmission and reflection)

System Software & Storage

Internal Storage	3.5-inch floppy disk drive (supports LIF and DOS formats)
Programming Language Support	SCPI (Standard Commands for Programmable Instruments)

Hardware Configurations & Options

Option 1EC	75 Ohm system impedance (Type-N female test ports)
Option 100	Fault Location and Structural Return Loss (SRL) measurements
Option 1F7	Ethertwist RJ-45 LAN interface (TCP/IP compliant)

Storage

Disk Drive	Internal 3.5-inch floppy disk drive (supports MS-DOS and LIF formats)
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Power Requirements

Line Voltage	90 to 132 Vac or 198 to 264 Vac (automatically selected)
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Rear Panel Connections

VGA Video Output	15-pin high-density D-sub (female), compatible with standard VGA monitors
HP-IB (GPIB) Port	IEEE-488.2 interface, 24-pin female connector
Parallel Port	25-pin D-sub (female), Centronics printer interface
Keyboard Connector	6-pin mini-DIN (female), supports standard PC-compatible keyboards

TECHNOLOGY

Vector Network Analysis

APPLICATIONS

RF component characterization, manufacturing test, and educational laboratories

Generated by SpecAtlasHub (specatlashub.com). Specifications are compiled from available sources and are subject to change — verify critical values against the manufacturer before purchase.