

KEYSIGHT TECHNOLOGIES (AGILENT HP)

8711A

The Keysight (formerly HP/Agilent) 8711A is an economy RF network analyzer operating from 300 kHz to 1300 MHz. Designed for fast, accurate, and cost-effective testing in RF manufacturing, service, and education environments, it features an integrated transmission/reflection test set, a built-in synthesized source with 1 Hz resolution, and high-speed sweep capability. It also features a 3.5-inch floppy disk drive supporting both LIF and DOS formats and integrated HP Instrument BASIC (IBASIC) for automated testing.

SPECIFICATIONS

General

Display	9-inch monochrome CRT
Disk Drive File Formats	MS-DOS and LIF compatible

Physical

Operating Temperature	0 to +55 °C °C
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Source Specifications

Frequency Range	300 kHz to 1300 MHz
Frequency Resolution	1 Hz
Output Power Range	0 to +16 dBm

Receiver Specifications

Receiver Frequency Range	300 kHz to 1300 MHz
Narrowband Dynamic Range (50 Ohm)	>90 dB
Broadband Dynamic Range (50 Ohm)	>66 dB
Narrowband Dynamic Range (75 Ohm)	>87 dB
Broadband Dynamic Range (75 Ohm)	>63 dB

Measurement Performance & Capabilities

Number of Display Channels	2 channels
Sweep Time	50 ms/sweep (fastest real-time sweep)
Internal Floppy Disk Drive	3.5-inch (LIF/DOS formats)
Integrated Test Set	Transmission/Reflection (T/R)
Automation Language	Internal HP Instrument BASIC (IBASIC)
Measurement Formats	Log magnitude, linear magnitude, SWR, phase, group delay

Test Port Characteristics

Test Port Connector Type	Type-N female
Nominal Impedance	50 Ohm (standard), 75 Ohm (Option 1EC)

Connectivity & Interfaces

GPIB Interface	HP-IB (IEEE-488.2 compatible)
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Configuration & Hardware Options

Option 1EC	75 Ohm system impedance
Option 1E1	Step attenuator (extends output power range down to -60 dBm)
Option 1D5	High-stability frequency reference

Options

Option 100	Fault location and structural return loss
Option 1C2	HP Instrument BASIC (IBASIC)

TECHNOLOGY

RF Network Analyzer

APPLICATIONS

RF component testing, filter tuning, amplifier measurement, manufacturing production line testing

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