

KEYSIGHT TECHNOLOGIES (AGILENT HP)

8752C

The Keysight (Agilent/HP) 8752C is a high-performance vector network analyzer designed for RF component characterization. It features an integrated transmission/reflection (T/R) test set, 110 dB of dynamic range, and vector accuracy enhancement to provide precise phase and magnitude measurements across its operating range.

SPECIFICATIONS

General

Interfaces	GPIO (IEEE-488)
Display	9-inch integrated color CRT

Physical

Power Supply	90 to 132 VAC / 198 to 264 VAC, 47 to 66 Hz
Operating Temperature	0 to 55 °C °C
Dimensions (W×H×D)	425 mm × 178 mm × 508 mm mm

Source (Stimulus)

Frequency Range (Standard)	300 kHz to 1.3 GHz
Frequency Range (Option 003)	300 kHz to 3 GHz
Frequency Range (Option 006)	300 kHz to 6 GHz
Frequency Resolution	1 Hz
Output Power Range (Standard)	-20 to +5 dBm
Output Power Range (Option 004)	-85 to +5 dBm (includes 70 dB step attenuator)

Receiver

Maximum Dynamic Range	110 dB
IF Bandwidth Range	10 Hz to 3 kHz

Test Port Characteristics

Test Port Impedance (Standard)	50 Ω
Test Port Impedance (Option 075)	75 Ω
Test Port Connector Type	Type-N (female)
Test Set Configuration	Built-in Transmission/Reflection (T/R) test set

Sweep & Measurement Capabilities

Measurement Channels	2 independent display channels
Display Formats	Log magnitude, linear magnitude, SWR, phase, group delay, polar, real, Smith chart
Number of Measurement Points	3, 11, 21, 51, 101, 201, 401, 801, 1601
Sweep Types	Linear frequency, logarithmic frequency, list frequency, power sweep

Calibration & Accuracy Enhancement

Error Correction	Interpolative error correction
Calibration Types	Response, Response & Isolation, 1-port, One-path 2-port

Display & Analysis Features

Time Domain Option	Option 010 (Group delay and time domain transform)
Pass/Fail Testing	Limit line testing with automated pass/fail results
Test Sequencing	Yes (allows user-defined test routines)

System Interfaces & Connectivity

External Reference Input	10 MHz
External Reference Output	10 MHz

Options

High Stability Frequency Reference (Option 1D5)	Adds oven-controlled crystal oscillator (OCXO), temperature stability < ±0.05 ppm (0 °C to 55 °C)
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Storage & I/O

Internal Storage	Built-in 3.5-inch floppy disk drive, supports MS-DOS and LIF formats
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Power Supply

Maximum Power Consumption	280 VA
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TECHNOLOGY

Vector Network Analysis

APPLICATIONS

RF component testing, filter characterization, transmission and reflection measurements

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