

KEYSIGHT TECHNOLOGIES (AGILENT HP)

8753C

The Keysight (Agilent/HP) 8753C is a Vector Network Analyzer operating from 30 kHz to 3 GHz. Featuring a built-in S-parameter test set, it allows for complete forward and reverse component characterization with a single connection. The analyzer offers two independent display channels for simultaneous measurement of reflection and transmission characteristics, and supports optional capabilities such as time domain analysis and swept harmonic measurements. Advanced built-in features including test sequencing, pass/fail testing, user-defined test frequencies, and interpolative error correction enhance testing productivity.

SPECIFICATIONS

General

Interfaces	HP-IB (IEEE-488)
Display	Color CRT

Frequency Characteristics

Frequency Range	300 kHz to 3 GHz
Frequency Resolution	1 Hz
Sweep Type	Linear frequency, log frequency, CW time, power sweep

Measurement and Display Capabilities

Number of Channels	2 independent display channels
Simultaneous Measurements	Reflection and transmission characteristics
Number of Data Points	Up to 1601 per channel
Display Formats	Log magnitude, linear magnitude, phase, group delay, SWR, polar, Smith chart
Calibration Methods	Comprehensive calibration with interpolative error correction
Test Set Integration	Requires external test set

Test Port Output Characteristics

Swept Harmonic Measurements	Optional
Frequency Offset Capability	Mixer testing with frequency offset capability

Time Domain Characteristics

Time Domain Modes	Optional
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Source

Source Output Power Range	-5 dBm to +20 dBm
Source Power Resolution	0.1 dB
Power Sweep Range	25 dB

Receiver

Available IF Bandwidths	10 Hz, 30 Hz, 100 Hz, 300 Hz, 1 kHz, 3 kHz
Receiver Inputs	R, A, B

Measurement Features

Trace Math Functions	Data / Memory, Data - Memory
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Measurement

Magnitude Resolution	0.001 dB
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TECHNOLOGY

Vector Network Analysis

APPLICATIONS

RF Component Characterization

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