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Data Sheet

August 14, 2026

AGILENT / KEYSIGHT

Agilent/Keysight 8752C

The Agilent 8752C is an economy RF network analyzer with integrated color display, transmission/reflection test set, and synthesized source covering 300 kHz to 1.3 GHz standard, extendable to 3 GHz or 6 GHz with frequency options. OEM literature specifies system dynamic range of 110 dB class midband with response and isolation correction at 10 Hz IF bandwidth. RF component transmission/reflection measurements, filter tuning to 1.3/3/6 GHz depending on options, and affordable production network analysis with built-in T/R test set. Dynamic Range Limit Mechanism: maximum source power minus receiver noise floor

Compared Family 8753E Standard: 30 kHz to 3 GHz class literature comparison Compared Family 8753E Extended: 30 kHz to 6 GHz class literature comparison From Agilent 8752C network analyzer product literature. Exact option codes for 3 GHz versus 6 GHz extension and full uncertainty tables belong on the unit-specific datasheet; do not assume Option 006 unless labeled.



MODEL

**Agilent / Keysight
8752C**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

8752C

LISTING

<https://aumictechlabs.com/products/8752c-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Agilent/Keysight 8752C is a vector network analyzer integrating synthesized source, test set, and receiver into a single compact unit for RF component and network characterization. It delivers accurate S-parameter measurements across 300 kHz to 1.3 GHz (expandable to 3 GHz or 6 GHz), with dual independent channels for simultaneous transmission and reflection analysis. The

instrument supports full two-port calibration with integrated error correction, measuring reflection coefficient, return loss, phase, gain, isolation, group delay, and linear phase deviation across multiple display formats including Smith chart, polar, and time-domain representations.

Technical Specifications

Frequency Range: 300 kHz to 1.3 GHz standard; optional upgrades to 3 GHz or 6 GHz

Source Characteristics

Resolution: 1 Hz

Frequency accuracy: ± 10 ppm at $25^{\circ}\text{C} \pm 5^{\circ}\text{C}$

Output power: -20 to +5 dBm standard; +10 to -85 dBm with Option 004; -85 to +8 dBm with Options 004 and 075

Output resolution: 0.05 dB

Output level accuracy: ± 1 dB

Flatness: < 2 dB p-p

Impedance: 50 ohm

Receiver Characteristics

Noise floor: -85 dBm reflection, -100 dBm transmission

Maximum input: 0 dBm

Crosstalk: 100 dB (300 kHz–1.3 GHz), 90 dB (1.3–3 GHz)

Dynamic range: Up to 110 dB

Dynamic accuracy: ± 0.05 dB, ± 0.3 degrees over 50 dB input range

Impedance: 50 ohm

Calibration & Accuracy

Full two-port calibration supported with broadband capability up to 1,601 points

Integrated vector error correction to minimize measurement uncertainty

Residual system uncertainties specified at $25^{\circ}\text{C} \pm 5^{\circ}\text{C}$ with $< 1^{\circ}\text{C}$ deviation from calibration temperature

Key Features

Two independent display channels for simultaneous measurements

Multiple measurement formats: log magnitude, linear magnitude, SWR, phase, group delay, polar, real, Smith chart

Selectable test frequencies and sweep segments for accelerated testing

Full-color 19 cm (7.5 inch) display

Typical Applications

Service, incoming inspection, production, and final test measurements of RF networks and components.

Compatibility & Integration

GP-IB (IEEE 488) interface for remote control and data transfer.

8752C Characteristics / Specifications

PARAMETER	VALUE
Frequency Range Standard	300 kHz to 1.3 GHz
Frequency Range Option to 3 GHz Class	300 kHz to 3 GHz
Frequency Range Option to 6 GHz Class	300 kHz to 6 GHz
System Dynamic Range 300 kHz to 1.3 GHz	110 dB at 10 Hz IFBW with response and isolation
System Dynamic Range Upper Band Class	110 dB class through optioned upper band at 10 Hz IFBW
Test Set	built-in transmission/reflection
Source Type	synthesized integrated source
Display	built-in color display
Test Port Cable	Type-N male to Type-N male included with factory calibration
Calibration Kit Example	85032B
IF Bandwidth For Dynamic Range Spec	10 Hz
Maximum Frequency With Options	6 GHz
Minimum Frequency	300 kHz
Analyzer Architecture	integrated T/R network analyzer
Error Correction	response and isolation; one-port reflection improvement
Form Factor	benchtop integrated VNA
Remote Control	HP-IB class 8752 family
Intended Use	economy RF T/R measurements
Family	Agilent 8752C
Connector System Class	Type-N 50 ohm
Sweep Capability	frequency sweep with synthesized source
Dynamic Range Limit Mechanism	maximum source power minus receiver noise floor
Compared Family 8753E Standard	30 kHz to 3 GHz class literature comparison
Compared Family 8753E Extended	30 kHz to 6 GHz class literature comparison

PARAMETER	VALUE
Bandwidth	For Dynamic Range Spec: 10 Hz

8752C Specifications

PARAMETER	VALUE
HP Agilent 8752C Network Analyzer	Overview
Integrated T/R test set and color display	Standard 300 kHz to 1.3 GHz coverage
Optional extension to 3 GHz or 6 GHz	Synthesized source with factory-calibrated Type-N cable
Technical Specifications	Frequency Range Standard: 300 kHz to 1.3 GHz

Full OEM specifications

Complete technical content extracted from the manufacturer datasheet. Sparse OEM tables are reconstructed as tables below; other text is preserved as paragraphs.

Specifications	
Specifications	
PARAMETER	VALUE
Frequency Range Standard	300 kHz to 1.3 GHz
Frequency Range Option to 3 GHz Class	300 kHz to 3 GHz
Frequency Range Option to 6 GHz Class	300 kHz to 6 GHz
System Dynamic Range 300 kHz to 1.3 GHz: 110 dB at 10 Hz IFBW with response and isolation	
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Dynamic Range Limit Mechanism	maximum source power minus receiver noise floor
Compared Family 8753E Standard	30 kHz to 3 GHz class literature comparison

PARAMETER

VALUE

Compared Family 8753E Extended

30 kHz to 6 GHz class literature comparison

Notes

From Agilent 8752C network analyzer product literature. Exact option codes for 3 GHz versus 6 GHz extension and full uncertainty tables belong on the unit-specific datasheet; do not assume Option 006 unless labeled.

Ordering Information

OPTION	DESCRIPTION
Option 006	unless labeled.

Available from Aumictech

Used and refurbished unit evaluated in-house. Calibration: Available on request. Used · In stock.

Request a quote: sales@aumictech.com · +1 (484) 841-9341

Aumictech

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Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.