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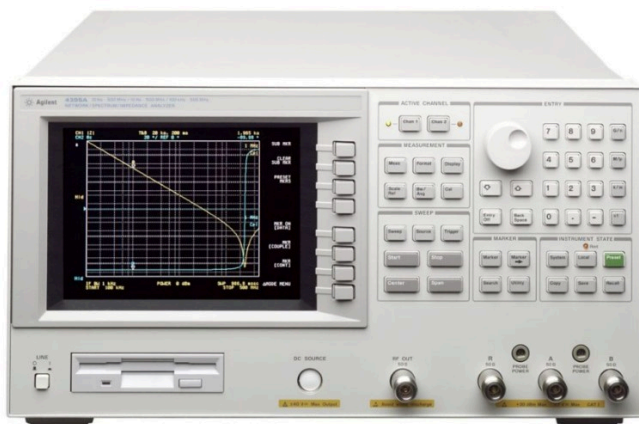
Data Sheet

August 13, 2026

AGILENT

Agilent 4395A Network Spectrum Impedance Analyzer

Agilent 4395A Network / Spectrum / Impedance Analyzer, 10 Hz to 500 MHz The Agilent 4395A combines a vector network analyzer, a spectrum analyzer, and optional impedance analysis in one instrument from 10 Hz to 500 MHz. The synthesized source provides -50 to +15 dBm with 0.1 dB resolution. Network dynamic range is 115 dB at 10 Hz IFBW with dynamic accuracy of plus/minus 0.05 dB / 0.3 deg. As a spectrum analyzer it offers 1 Hz to 1 MHz RBW (1-3-10) and -145 dBm/Hz sensitivity at 10 MHz. Option 010 plus the 43961A kit adds impedance from 100 kHz to 500 MHz. The Agilent 4395A combines a vector network analyzer, a spectrum analyzer, and optional impedance analysis in one instrument from 10 Hz to 500 MHz. The synthesized source provides -50 to +15 dBm with 0.1 dB resolution. Network dynamic range is 115 dB at 10 Hz IFBW with dynamic accuracy of plus/minus 0.05 dB / 0.3 deg. As a spectrum analyzer it offers 1 Hz to 1 MHz RBW (1-3-10) and -145 dBm/Hz sensitivity at 10 MHz. Option 010 plus the 43961A kit adds impedance from 100 kHz to 500 MHz. HF/VHF/IF component gain, phase, and group-delay characterization; reflection, SWR, and S-parameter measurements with a test set; distortion, spurious, CN, and noise spectrum analysis; optional RF impedance of RLC and crystals; production and R&D combined NA/SA benches.



MODEL

Agilent 4395A

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

4395A

LISTING

<https://aumictechlabs.com/products/4395a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Agilent 4395A Network Spectrum Impedance Analyzer combines vector network analysis, spectrum analysis, and impedance measurement in a single instrument. Operating from 10 Hz to 500 MHz, it delivers 1 mHz frequency resolution and a synthesized source spanning -50 dBm to +15 dBm. The analyzer supports dual-channel color TFT display output and connects via GPIB for automated test integration.

Technical Specifications

Frequency & Source Performance
Frequency range: 10 Hz to 500 MHz
Frequency resolution: 1 mHz
Synthesized source: -50 dBm to +15 dBm, 0.1 dB resolution

Network Analysis
Impedance measurement range: 100 kHz to 500 MHz
Dynamic magnitude accuracy: ± 0.05 dB (typical, -10 dB > input ≥ -60 dB)
Dynamic phase accuracy: $\pm 0.3^\circ$ (typical, -10 dB > input ≥ -60 dB)
Absolute amplitude accuracy: ± 1.5 dB at -10 dBm input, 10 dB attenuator, $f \geq 100$ Hz
Trace noise: < 0.005 dB rms at 50 MHz, full-scale input -10 dB, IFBW 300 Hz

Measurement parameters: $|Z|$, θ_z , $|Y|$, θ_y , R, X, G, B, Cp, Cs, Lp, Ls, Rp, Rs, D, Q, $|\Gamma|$, θ_Γ , Γ_x , Γ_y

Spectrum Analysis
Resolution bandwidth: 2 Hz to 5 MHz with selectable steps
Displayed average noise level: < -120 dBm/Hz (100 kHz $\leq f < 10$ MHz); < -133 dBm/Hz ($f \geq 10$ MHz)
Selectivity (60 dB/3 dB): 0
Spurious response: -110 dBc/Hz at 1 MHz
FFT DSP acceleration: up to 100 $\times$ faster narrow-RBW sweeps

Impedance Measurement
Frequency range: 100 kHz to 500 MHz
Basic accuracy: 3%
Optional DC source (Option 001): ± 40 V, ± 20 to ± 100 mA

Physical & Environmental
Dimensions: 425 mm W $\times$ 235 mm H $\times$ 553 mm D
Weight: 21 kg (typical)
Operating temperature: 0 $^\circ$ C to 40 $^\circ$ C
Storage temperature: -20 $^\circ$ C to 60 $^\circ$ C
Interface: GPIB
Storage: 1.44 MB floppy disk (LIF or MS-DOS)

Key Features
Tri-function analysis in one box eliminates multiple instruments
Color TFT dual-display for parallel measurement monitoring
1 mHz resolution for precision frequency characterization
 < 0.005 dB rms trace noise for low-level signal detection
Programmable via IBASIC and GPIB automation

Typical Applications
RF component characterization and impedance matching
Circuit board assembly (CBA) production testing
Filter and amplifier S-parameter measurement
Impedance and Q-factor verification across broadband designs
Spectrum monitoring and EMI/RFI assessment

Compatibility & Integration
GPIB connectivity enables integration into automated test systems. Data storage on 1.44 MB floppy supports LIF and MS-DOS formats for test setup archival and program execution via IBASIC.

4395A Characteristics / Specifications

PARAMETER	VALUE
Three analyzers in one chassis	network, spectrum, and optional impedance Instrument BASIC, GPIB, 3.5 inch floppy, RAM disk, direct print, and VGA output Option 010 impedance with OPEN/SHORT/LOAD and port extension Option 1D5 high-stability frequency reference; Option 1D6 time-gated spectrum
Model	4395A
Manufacturer	Hewlett-Packard / Agilent / Keysight
Instrument Type	Combined network, spectrum, and optional impedance analyzer
Alias	HP 4395A; Agilent 4395A; Keysight 4395A
Network Frequency Range	10 Hz to 500 MHz
Frequency Resolution	1 mHz
Frequency Accuracy Standard	less than plus/minus 5.5 ppm at 23 plus/minus 5 C
Frequency Accuracy Option 1D	less than plus/minus 0.13 ppm (0 to 40 C, referenced to 23 C)
Source Power Range	-50 dBm to +15 dBm
Source Power Resolution	0.1 dB
Source Level Accuracy	plus/minus 1.0 dB at 0 dBm, 50 MHz, 23 plus/minus 5 C
Source Harmonics	less than -30 dBc at +10 dBm
Source Nonharmonic Spurious	less than -30 dBc at +10 dBm
Source Noise Sidebands	less than -95 dBc/Hz at 10 kHz offset or greater
Network Dynamic Range	115 dB at 10 Hz IFBW
Network Dynamic Accuracy	plus/minus 0.05 dB / 0.3 deg (full two-port, midband table)
Power Sweep Range	20 dB maximum
Source Impedance	50 ohm nominal, Type-N female
Receiver IF Bandwidth	2, 10, 30, 100, 300, 1 k, 3 k, 10 k, 30 kHz
Receiver Full Scale at 0 dB Atten	-10 dBm (network)
Maximum Safe Input	+30 dBm or plus/minus 7 Vdc (SPC)
Spectrum Frequency Range	10 Hz to 500 MHz
Spectrum RBW	1 Hz to 1 MHz in 1-3-10 steps

PARAMETER	VALUE
Spectrum Sensitivity	-145 dBm/Hz at 10 MHz
Spectrum Level Accuracy	plus/minus 0.8 dB at 50 MHz, -20 dBm
Spectrum Third Order Dynamic Range	greater than 100 dB
Spectrum Noise Sidebands Typical	less than -104 dBc/Hz at 10 kHz offset
Impedance Frequency Option 0	100 kHz to 500 MHz
Impedance Basic Accuracy	plus/minus 3 percent typical
Impedance Source Level at DUT	-56 dBm to +9 dBm
Impedance DC Bias	plus/minus 40 V, 20 mA maximum (Option 001 or external)
Warm Up	30 minutes
Operating Temperature Disk Idle	0 C to 40 C
Mains	90 to 132 V or 198 to 264 V auto-switched, 47 to 63 Hz, 300 VA maximum
Dimensions	425 mmWx 235 mmHx 553 mmDWeight: 21 kg (SPC)
External Monitor	VGA 640 × 480, 15-pin HD
Altitude Operating	0 to 2000 m Notes Specs from Agilent 4395A Network/Spectrum/Impedance Analyzer data sheet 5965-9340E. Confirm Option 010 (impedance), 1D5, 1D6, 001, and installed test set (e.g. 43961A) on the unit.
Bandwidth	2, 10, 30, 100, 300, 1 k, 3 k, 10 k, 30 kHz
Operating temperature	Disk Idle: 0 C to 40 C

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
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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	
Technical Specifications	
PARAMETER	VALUE
Model	4395A
Manufacturer	Hewlett-Packard / Agilent / Keysight
Instrument Type	Combined network, spectrum, and optional impedance analyzer
Alias	HP 4395A; Agilent 4395A; Keysight 4395A
Network Frequency Range	10 Hz to 500 MHz
Frequency Resolution	1 mHz
Frequency Accuracy Standard	less than plus/minus 5.5 ppm at 23 plus/minus 5 C
Frequency Accuracy Option 105	less than plus/minus 0.13 ppm (0 to 40 C, referenced to 23 C)
Source Power Range	-50 dBm to +15 dBm
Source Power Resolution	0.1 dB
Source Level Accuracy	plus/minus 1.0 dB at 0 dBm, 50 MHz, 23 plus/minus 5 C
Source Harmonics	less than -30 dBc at +10 dBm
Source Nonharmonic Spurious	less than -30 dBc at +10 dBm
Source Noise Sidebands	less than -95 dBc/Hz at 10 kHz offset or greater
Network Dynamic Range	115 dB at 10 Hz IFBW
Network Dynamic Accuracy	plus/minus 0.05 dB / 0.3 deg (full two-port, midband table)
Power Sweep Range	20 dB maximum
Source Impedance	50 ohm nominal, Type-N female
Receiver IF Bandwidth	2, 10, 30, 100, 300, 1 k, 3 k, 10 k, 30 kHz
Receiver Full Scale at 0 dB Atten	-10 dBm (network)
Maximum Safe Input	+30 dBm or plus/minus 7 Vdc (SPC)
Spectrum Frequency Range	10 Hz to 500 MHz
Spectrum RBW	1 Hz to 1 MHz in 1-3-10 steps
Spectrum Sensitivity	-145 dBm/Hz at 10 MHz
Spectrum Level Accuracy	plus/minus 0.8 dB at 50 MHz, -20 dBm
Spectrum Third Order Dynamic Range	greater than 100 dB

PARAMETER	VALUE
Spectrum Noise Sidebands Typical	less than -104 dBc/Hz at 10 kHz offset
Impedance Frequency Option 010	100 kHz to 500 MHz
Impedance Basic Accuracy	plus/minus 3 percent typical
Impedance Source Level at DUT	-56 dBm to +9 dBm
Impedance DC Bias	plus/minus 40 V, 20 mA maximum (Option 001 or external)
Warm Up	30 minutes
Operating Temperature Disk Idle	0 C to 40 C
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Notes

Specs from Agilent 4395A Network/Spectrum/Impedance Analyzer data sheet 5965-9340E. Confirm Option 010 (impedance), 1D5, 1D6, 001, and installed test set (e.g. 43961A) on the unit.

Ordering Information

OPTION	DESCRIPTION
Option 010	plus the 43961A kit adds impedance from 100 kHz to 500 MHz.
Option 001	plus/minus 40 V DC source; Option 1D7 50-to-75 ohm spectrum conversion

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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<https://aumictechlabs.com>

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30-day returns
NAICS 423690 · 811210 · 541380
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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.