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Data Sheet

August 14, 2026

AGILENT / KEYSIGHT

Agilent / Keysight N5234A 43.5 GHz PNA-L Microwave Network Analyzer

Agilent Keysight N5234A PNA-L Series Network Analyzer The Agilent/Keysight N5234A isaPNA-L Series microwave vector network analyzer covering 10 MHz to 43.5 GHz. OEM technical specifications list 1 Hz frequency resolution and plus or minus 1 ppm frequency accuracy. S-parameter characterization of RF/microwave components across 10 MHz to 43.5 GHz, calibration with compatible kits, and R&D/production VNA measurements. High stability timebase plus or minus 0.05 ppm class The Agilent/Keysight N5234A isaPNA-L Series microwave vector network analyzer covering 10 MHz to 43.5 GHz. OEM technical specifications list 1 Hz frequency resolution and plus or minus 1 ppm frequency accuracy. S-parameter characterization of RF/microwave components across 10 MHz to 43.5 GHz, calibration with compatible kits, and R&D/production VNA measurements. High stability timebase plus or minus 0.05 ppm class Instrument Type: Microwave vector network analyzer



MODEL

**Agilent / Keysight
N5234A**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

N5234A

LISTING

<https://aumictechlabs.com/products/n5234a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Keysight N5234A is a 43.5 GHz PNA-L Microwave Network Analyzer engineered for high-accuracy S-parameter measurements across R&D and manufacturing environments. This 2-port

benchtop instrument delivers dynamic range to 127 dB with trace noise as low as 0.003 dB rms, making it well-suited for passive component characterization and active device measurement including amplifiers and frequency converters.

Technical Specifications

- Frequency Range: 10 MHz to 43.5 GHz
- Ports: 2 built-in ports (2 or 4-port configurations available)
- Channels: 32 independent measurement channels
- Dynamic Range: Up to 127 dB
- Trace Noise: 0.003 dB rms
- Trace Points: 32,001 points maximum
- Output Power: 6 dBm or 0 dBm
- Noise Floor: -110 dBm (10 Hz IF bandwidth)
- IF Bandwidth: 15 MHz
- Harmonics: -33 dBc

Key Features

- Single built-in source for 2-port operation
- TRL (Thru-Reflect-Line) calibration for in-fixture, on-wafer, and waveguide measurements
- N-port calibration capability
- Single-ended, balanced, and mixed-mode S-parameter measurement
- Pulsed S-parameter measurements with integrated pulse modulators and generators
- Ratioed and unratioed receiver measurements
- USB, LAN, and GPIB connectivity

Benchtop form factor: 24 × 20 × 16 inches, 50 lbs

Typical Applications

- Passive component validation, active device characterization, millimeter-wave analysis, signal integrity assessment, and materials measurement.

Compatibility & Integration

The N5234A shares firmware with the PNA series and maintains 100% compatibility with the N5230C, requiring no changes to existing test setups or measurement code. The N5234A entered obsolescence as of June 1, 2024, with reduced standard support; Keysight offers hardware and firmware upgrades to the N5234B model for continued technical support and serviceability.

N5234A Characteristics / Specifications

PARAMETER	VALUE
Model	N5234A
Instrument Type	Microwave vector network analyzer
Instrument Family	PNA-L Series
Frequency Range	10 MHz to 43.5 GHz
Frequency Resolution	1 Hz
Frequency Accuracy	plus or minus 1 ppm
High Stability Timebase Stability	plus or minus 0.05 ppm, minus 10 C to 70 C
High Stability Aging	plus or minus 0.1 ppm/yr maximum
Port Options	2-port only Option 200 standard test set or Option 216 jumpers and source attenuators
Test Port Impedance	50 ohm
Test Port Connector Class	ruggedized 2.4 mm male
Power Resolution	0.01 dB
IF Bandwidth For Dynamic Range Tables	10 Hz
Display	10.4 inch LCD touch screen class PNA family
Remote Interfaces	USB LAN GPIBSPParameter Test Set: built-in integrated
Operating Temperature Spec	25 C plus or minus 5 C for warranted specs unless stated
Warm Up Time	90 minutes after turn-on for warranted specs
Form Factor	benchtop PNA
Uncertainty Tool	Keysight NA uncertainty calculator supported
Series Family	Keysight PNA family N522x/N523x/N524x
System Dynamic Range 2 to 8.5 GHz Spec Option 2	120 dB
System Dynamic Range 8.5 to 12.5 GHz Spec Option 2	122 dB
System Dynamic Range 40 to 43.5 GHz Spec Option 2	85 dB

PARAMETER	VALUE
Receiver Dynamic Range Typical 8.5 to 13.5 GHz	129 dB
Maximum Leveled Power 8 to 12.5 GHz Spec Option 2	plus 6 dBm typical plus 10 dBm
Maximum Leveled Power 40 to 43.5 GHz Spec Option 2	minus 10 dBm typical 0 dBm
Corrected Directivity 10 MHz to 20 GHz 85056A	42 dB
Bandwidth	For Dynamic Range Tables: 10 Hz
Operating temperature	Spec: 25 C plus or minus 5 C for warranted specs unless stated

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Operating temperature	Spec: 25 C plus or minus 5 C for warranted specs unless stated
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Warm Up Time	90 minutes after turn-on for warranted specs
Form Factor	benchtop PNA
Uncertainty Tool	Keysight NA uncertainty calculator supported
Series Family	Keysight PNA family N522x/N523x/N524x
System Dynamic Range 2 to 8.5 GHz Spec Option 2	120 dB
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Receiver Dynamic Range Typical 8.5 to 13.5 GHz	129 dB
Maximum Leveled Power 8 to 12.5 GHz Spec Option 2	plus 6 dBm typical plus 10 dBm
Maximum Leveled Power 40 to 43.5 GHz Spec Option 2	minus 10 dBm typical 0 dBm
Corrected Directivity 10 MHz to 20 GHz 85056A	42 dB Notes From Keysight N5234A/N5235A 2-port PNA-L technical specifications 9018-04400. N5234A is 2-port only.

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 list 1 Hz frequency resolution and plus or minus 1 ppm frequency accuracy.

Applications

S-parameter characterization of RF/microwave components across 10 MHz to 43.5 GHz, calibration with compatible kits, and R&D/production VNA measurements.

Key Features

Integrated synthesized VNA architecture

1 Hz frequency resolution

Plus or minus 1 ppm frequency accuracy

High stability timebase plus or minus 0.05 ppm class

USB LAN GPIB remote IO

Technical Specifications

Technical Specifications

PARAMETER	VALUE
Model	N5234A
Instrument Type	Microwave vector network analyzer
Instrument Family	PNA-L Series
Frequency Range	10 MHz to 43.5 GHz
Frequency Resolution	1 Hz
Frequency Accuracy	plus or minus 1 ppm
High Stability Timebase Stability	plus or minus 0.05 ppm, minus 10 C to 70 C
High Stability Aging	plus or minus 0.1 ppm/yr maximum
Port Options	2-port only Option 200 standard test set or Option 216 jumpers and source attenuators
Test Port Impedance	50 ohm
Test Port Connector Class	ruggedized 2.4 mm male
Power Resolution	0.01 dB
IF Bandwidth For Dynamic Range Tables	10 Hz
Display	10.4 inch LCD touch screen class PNA family
Remote Interfaces	USB LAN GPIBParameter Test Set: built-in integrated
Operating Temperature Spec	25 C plus or minus 5 C for warranted specs unless stated
Warm Up Time	90 minutes after turn-on for warranted specs
Form Factor	benchtop PNA
Uncertainty Tool	Keysight NA uncertainty calculator supported
Series Family	Keysight PNA family N522x/N523x/N524x

System Dynamic Range 2 to 8.5 GHz Spec Option 200: 120 dB
System Dynamic Range 8.5 to 12.5 GHz Spec Option 200: 122 dB
System Dynamic Range 40 to 43.5 GHz Spec Option 200: 85 dB
Receiver Dynamic Range Typical 8.5 to 13.5 GHz: 129 dB
Maximum Leveled Power 8 to 12.5 GHz Spec Option 200: plus 6 dBm typical plus 10 dBm
Maximum Leveled Power 40 to 43.5 GHz Spec Option 200: minus 10 dBm typical 0 dBm
Corrected Directivity 10 MHz to 20 GHz 85056A: 42 dB

Notes

From Keysight N5234A/N5235A 2-port PNA-L technical specifications 9018-04400. N5234A is 2-port only.

Ordering Information

OPTION	DESCRIPTION
Option 200	standard test set or Option 216 jumpers and source attenuators

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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NIST-traceable calibration · SAM registered ·
30-day returns
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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.