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Data Sheet

August 14, 2026

AGILENT / KEYSIGHT

Agilent / Keysight N5234B 43.5GHz PNA-L Microwave Network Analyzer

Agilent Keysight N5234B PNA-L Network Analyzer The Keysight N5234B isaPNA-L Series microwave vector network analyzer covering 10 MHz to 43.5 GHz. OEM N5234B/N5235B technical specifications list 1 Hz frequency resolution, ± 1 ppm frequency accuracy, ruggedized 2.4 mm male test ports, and 120 dB specified system dynamic range from 2 to 8.5 GHz (Option 200). Economy millimeter-wave S-parameter measurements to 43.5 GHz, 2-port production test, and broadband component characterization. PNA-L integrated VNA with one synthesized source The Keysight N5234B isaPNA-L Series microwave vector network analyzer covering 10 MHz to 43.5 GHz. OEM N5234B/N5235B technical specifications list 1 Hz frequency resolution, ± 1 ppm frequency accuracy, ruggedized 2.4 mm male test ports, and 120 dB specified system dynamic range from 2 to 8.5 GHz (Option 200). Economy millimeter-wave S-parameter measurements to 43.5 GHz, 2-port production test, and broadband component characterization. PNA-L integrated VNA with one synthesized source Option 216 adds front-panel jumpers and source attenuators



MODEL

**Agilent / Keysight
N5234B**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

N5234B

LISTING

<https://aumictechlabs.com/products/n5234b-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Keysight N5234B is a 2-port microwave network analyzer delivering S-parameter measurement capability from 10 MHz to 43.5 GHz. Built on PNA-L architecture, this instrument balances performance and cost-effectiveness for component characterization and signal integrity analysis in R&D and manufacturing settings.

Technical Specifications

Frequency and Power
Frequency range: 10 MHz to 43.5 GHz
Output power: -6 dBm typical
Dynamic range: Up to 122 dB
Trace noise: 0.003 dB RMS
Fast sweep capability: 201-point sweep in 6 ms minimum

Port Configuration
2-port analyzer with single built-in source
Ruggedized 2.4 mm (m) test ports

Display and Interface
12.1-inch LCD multi-touch display
USB connectivity
Solid-state drive storage
Intuitive touch interface for rapid measurement insight

Operating Conditions
Specifications valid over 25 °C ±5 °C after 90 minutes warm-up

Key Features
S-parameter measurement across X-band, Ku-band, and Ka-band frequencies
Differential and balanced component analysis with common-mode rejection capability
Mixed-mode performance characterization including amplitude and phase imbalance quantification
Core firmware architecture shared with higher-tier PNA series

Option 200: Standard 2-port configuration with base test set
Option 216: Extended power range via front-panel jumpers and source attenuators

Typical Applications
Passive component testing (filters, couplers, antennas)
Simple active device characterization
Materials and dielectric characterization
Signal integrity assessment in microwave systems

Compatibility & Integration
The N5234B integrates into existing laboratory environments via standard USB interfaces and operates standalone or networked. Ruggedized 2.4 mm connectors support field-proven test fixtures and cable assemblies across the microwave band.

N5234B Characteristics / Specifications

PARAMETER	VALUE
Model	N5234B
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	±1 ppm
Test Port Impedance	50 ohm
Test Port Connector	ruggedized 2.4 mm male
Port Options	2-port Option 200 or Option 216
Power Resolution	0.01 dB
Preset Power N5234B	minus 10 dBm
System Dynamic Range 10 MHz to 45 MHz Spec	75 dB Option 200 test port
System Dynamic Range 45 MHz to 500 MHz Spec	90 dB Option 200 test port
System Dynamic Range 500 MHz to 2 GHz Spec	114 dB Option 200 test port
System Dynamic Range 2 GHz to 8.5 GHz Spec	120 dB Option 200 test port
System Dynamic Range 8.5 GHz to 12.5 GHz Spec	122 dB Option 200 test port
System Dynamic Range 20 GHz to 35 GHz Spec	100 dB Option 200 test port
System Dynamic Range 40 GHz to 43.5 GHz Spec	85 dB Option 200 test port
Receiver Dynamic Range Typical 2 GHz to 8.5 GHz	128 dB typical
Receiver Dynamic Range Typical 40 GHz to 43.5 GHz	105 dB typical

PARAMETER	VALUE
If Bandwidth For Dynamic Range Tables	10 Hz
Operating Temperature Spec	25 C ±5 C after 90 minutes warm-up
Display	12.1 inch LCD touch screen
Remote Interfaces	USB LAN GPIB class PNA-L family
Form Factor	benchtop PNA-LSPParameter Test Set: built-in integrated
Series Family	Keysight PNA-L N523xB
Bandwidth	For Dynamic Range Tables: 10 Hz
Operating temperature	Spec: 25 C ±5 C after 90 minutes warm-up

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Operating temperature	Spec: 25 C ±5 C after 90 minutes warm-up
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Display	12.1 inch LCD touch screen
Remote Interfaces	USB LAN GPIB class PNA-L family
Form Factor	benchtop PNA-LSPParameter Test Set: built-in integrated
Series Family	Keysight PNA-L N523xB Notes Numeric rows from Keysight N5234B/35B Data Sheet and Technical Specifications 9018-04412. N5234B/N5235B are 2-port analyzers (Option 200/216).

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, ± 1 ppm frequency accuracy, ruggedized 2.4 mm male test ports, and 120 dB specified system dynamic range from 2 to 8.5 GHz (Option 200).

Applications

Economy millimeter-wave S-parameter measurements to 43.5 GHz, 2-port production test, and broadband component characterization.

Key Features

PNA-L integrated VNA with one synthesized source

Ruggedized 2.4 mm male test ports

Option 216 adds front-panel jumpers and source attenuators

12.1 inch LCD touch screen

USB interfaces and solid-state drive

Technical Specifications

Specifications

PARAMETER	VALUE
If Bandwidth For Dynamic Range Tables	10 Hz
Operating Temperature Spec	25 C $\pm$ 5 C after 90 minutes warm-up
Display	12.1 inch LCD touch screen
Remote Interfaces	USB LAN GPIB class PNA-L family
Form Factor	benchtop PNA-L
S Parameter Test Set	built-in integrated
Series Family	Keysight PNA-L N523xB

Technical Specifications

PARAMETER	VALUE
Model	N5234B
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	± 1 ppm
Test Port Impedance	50 ohm
Test Port Connector	ruggedized 2.4 mm male
Port Options	2-port Option 200 or Option 216
Power Resolution	0.01 dB

PARAMETER	VALUE
Preset Power N5234B	minus 10 dBm

System Dynamic Range 10 MHz to 45 MHz Spec: 75 dB Option 200 test port
System Dynamic Range 45 MHz to 500 MHz Spec: 90 dB Option 200 test port
System Dynamic Range 500 MHz to 2 GHz Spec: 114 dB Option 200 test port
System Dynamic Range 2 GHz to 8.5 GHz Spec: 120 dB Option 200 test port
System Dynamic Range 8.5 GHz to 12.5 GHz Spec: 122 dB Option 200 test port
System Dynamic Range 20 GHz to 35 GHz Spec: 100 dB Option 200 test port
System Dynamic Range 40 GHz to 43.5 GHz Spec: 85 dB Option 200 test port
Receiver Dynamic Range Typical 2 GHz to 8.5 GHz: 128 dB typical
Receiver Dynamic Range Typical 40 GHz to 43.5 GHz: 105 dB typical

Specifications

PARAMETER	VALUE
If Bandwidth For Dynamic Range Tables	10 Hz
Operating Temperature Spec	25 C ±5 C after 90 minutes warm-up
Display	12.1 inch LCD touch screen
Remote Interfaces	USB LAN GPIB class PNA-L family
Form Factor	benchtop PNA-LSParameter Test Set: built-in integrated
Series Family	Keysight PNA-L N523xB

Notes
Numeric rows from Keysight N5234B/35B Data Sheet and Technical Specifications 9018-04412. N5234B/N5235B are 2-port analyzers (Option 200/216).

Ordering Information

OPTION	DESCRIPTION
Option 216	adds front-panel jumpers and source attenuators
Option 200	or Option 216

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

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NIST-traceable calibration · SAM registered ·
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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.