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Data Sheet

August 14, 2026

AGILENT / KEYSIGHT

Agilent / Keysight N5235B 50 GHz PNA-L Microwave Network Analyzer

Agilent Keysight N5235B PNA-L Network Analyzer The Keysight N5235B isaPNA-L Series microwave vector network analyzer covering 10 MHz to 50 GHz. OEM N5234B/N5235B technical specifications list 1 Hz frequency resolution, ± 1 ppm frequency accuracy, and 84 dB specified system dynamic range from 40 to 50 GHz (Option 200). Economy millimeter-wave S-parameter measurements to 50 GHz, 2-port production test, and broadband component characterization. PNA-L integrated VNA with one synthesized source The Keysight N5235B isaPNA-L Series microwave vector network analyzer covering 10 MHz to 50 GHz. OEM N5234B/N5235B technical specifications list 1 Hz frequency resolution, ± 1 ppm frequency accuracy, and 84 dB specified system dynamic range from 40 to 50 GHz (Option 200). Economy millimeter-wave S-parameter measurements to 50 GHz, 2-port production test, and broadband component characterization. PNA-L integrated VNA with one synthesized source Coverage through 50 GHz on the PNA-LB platform



MODEL

**Agilent / Keysight
N5235B**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

N5235B

LISTING

<https://aumictechlabs.com/products/n5235b-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Keysight N5235B is a 50 GHz PNA-L microwave network analyzer engineered for RF and microwave component characterization. It delivers precision S-parameter measurements from 10 MHz to 50 GHz with 122 dB dynamic range and 0.003 dB RMS trace noise. The dual-port architecture with single synthesized source, 6 dBm output power, and 6 ms best sweep time (201 points) supports rapid production testing and lab measurements without sacrificing measurement fidelity.

Technical Specifications
Frequency range: 10 MHz to 50 GHz
Ports: 2-port configuration with single synthesized source
Dynamic range: 122 dB
Output power: 6 dBm
Trace noise: 0.003 dB RMS
Best 201-point sweep time: 6 ms
Test port type: 50 ohm, ruggedized 2.4 mm (m)
Display: 12.1" LCD touch screen, multi-touch interface
Data storage: Solid state drive
Connectivity: USB interfaces

Key Features
Accurate S-parameter measurements across full 10 MHz to 50 GHz frequency span
Single synthesized source drives both test ports efficiently
Mixed-mode S-parameter capability eliminates balun-based measurement constraints
On-wafer measurement system compatible with standard probe station integration
Passive component and simple active device analysis
Intuitive multi-touch display and user interface
Same core firmware as Keysight PNA family

Typical Applications
Microwave manufacturing and production testing
Signal integrity measurements
Materials characterization
Passive RF component verification
Differential circuit analysis via mixed-mode measurements
On-wafer semiconductor device characterization

Compatibility & Integration
The N5235B operates on PNA network analyzer firmware and supports field upgrade to equivalent N52xxB specifications. Standard SSD-based data storage and USB connectivity enable rapid file transfer and system integration into existing lab environments.

N5235B Characteristics / Specifications

PARAMETER	VALUE
Model	N5235B
Instrument Type	Microwave vector network analyzer
Instrument Family	PNA-L Series
Frequency Range	10 MHz to 50 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 N5235B	minus 15 dBm
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 13.51 GHz to 20 GHz Spec	108 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 50 GHz Spec	84 dB Option 200 test port
Receiver Dynamic Range Typical 8.5 GHz to 13.5 GHz	129 dB typical
Receiver Dynamic Range Typical 43.5 GHz to 47 GHz	104 dB typical
Receiver Dynamic Range Typical 47 GHz to 50 GHz	103 dB typical
If Bandwidth For Dynamic Range Tables	10 Hz
Operating Temperature Spec	25 C ±5 C after 90 minutes warm-up

PARAMETER	VALUE
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

N5235B Specifications

PARAMETER	VALUE
Applications	Economy millimeter-wave S-parameter measurements to 50 GHz, 2-port production test, and broadband component characterization.
Ruggedized 2.4 mm male test ports	Coverage through 50 GHz on the PNA-L B platform
Option 216 extended power range	12.1 inch LCD touch screen
Technical Specifications	Model: N5235B
Notes	Numeric rows from Keysight N5234B/35B Data Sheet and Technical Specifications 9018-04412.

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Operating temperature	Spec: 25 C ±5 C after 90 minutes warm-up
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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.

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, and 84 dB specified system dynamic range from 40 to 50 GHz (Option 200).

Applications

Economy millimeter-wave S-parameter measurements to 50 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

Coverage through 50 GHz on the PNA-LBplatform

Option 216 extended power range

12.1 inch LCD touch screen

Technical Specifications

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-L
S Parameter Test Set	built-in integrated
Series Family	Keysight PNA-L N523xB

Technical Specifications

PARAMETER	VALUE
Model	N5235B
Instrument Type	Microwave vector network analyzer
Instrument Family	PNA-L Series
Frequency Range	10 MHz to 50 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 N5235B	minus 15 dBm

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 13.51 GHz to 20 GHz Spec: 108 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 50 GHz Spec: 84 dB Option 200 test port
Receiver Dynamic Range Typical 8.5 GHz to 13.5 GHz: 129 dB typical
Receiver Dynamic Range Typical 43.5 GHz to 47 GHz: 104 dB typical
Receiver Dynamic Range Typical 47 GHz to 50 GHz: 103 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.

Ordering Information

OPTION	DESCRIPTION
Option 216	extended power range
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

Aumictech

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<https://aumictechlabs.com>

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.