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Data Sheet
August 14, 2026

AGILENT / KEYSIGHT

Agilent / Keysight N5239A PNA-L Microwave Network Analyzer, 8.5 GHz

Agilent Keysight N5239A PNA-L Network Analyzer The Keysight N5239A isaPNA-L Series microwave vector network analyzer covering 300 kHz to 8.5 GHz. OEM N5239A/N5231A/N5232A data sheet and technical specifications list 1 Hz frequency resolution, ±1 ppm frequency accuracy, and the same 2-port Option 200/216 architecture as later B-revision PNA-L analyzers. Economy RF/microwave S-parameter measurements to 8.5 GHz, 2-port production test, and general component characterization. Option 216 extended power range with source attenuators The Keysight N5239A isaPNA-L Series microwave vector network analyzer covering 300 kHz to 8.5 GHz. OEM N5239A/N5231A/N5232A data sheet and technical specifications list 1 Hz frequency resolution, ±1 ppm frequency accuracy, and the same 2-port Option 200/216 architecture as later B-revision PNA-L analyzers. Economy RF/microwave S-parameter measurements to 8.5 GHz, 2-port production test, and general component characterization. Option 216 extended power range with source attenuators 10.4 inch class PNA-LAdisplay architecture

MODEL **Agilent / Keysight N5239A**	CALIBRATION **Available on request**
CONDITION **Used**	STATUS **In stock**
RFQ / SKU **N5239A**	LISTING **https://aumictechlabs.com/products/n5239a-2/**

NIST-traceable cal · SAM registered · 30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Keysight N5239A PNA-L is a 2-port and 4-port microwave network analyzer covering 300 kHz to 8.5 GHz. Purpose-built for S-parameter characterization of RF and microwave components, it delivers 133 dB dynamic range and supports up to 100,001 measurement points across 200 independent channels. The instrument combines high output power (+13 dBm) with low noise floor (-120 dBm at 10 Hz IF bandwidth) for demanding measurement environments.Technical Specifications Frequency Range: 300 kHz to 8.5 GHz Configurations: 2-port (Option 200, Option 216) and 4-port (Option 400, Option 416) RF Connector: 3.5 mm Male System Dynamic Range: 133 dB Measurement Points: 100,001 Channels: 200 independent IF Bandwidth: 15 MHz maximum; 35 kHz minimum (130 µs pulse width, 30 µs acquisition time) Output Power: +13 dBm Noise Floor: -120 dBm (10 Hz IF bandwidth) Dimensions: 24 × 20 × 16 in Weight: 50 lbs Operating Range: 25 °C ±5 °C; 90 minutes after power-onKey Features S-parameter and mixed-mode measurements including balanced/differential component analysis Common-mode rejection ratio and amplitude/phase imbalance characterization Time domain analysis for impedance measurement and device diagnostics Pulsed-RF measurement capability Electronic calibration (ECal) module support with QSOLT multiport calibration Frequency offset measurements with external reference mixer (Option 083) Multi-touch display interface 200 independent measurement channels for complex test sequencesTypical Applications Aerospace and defense component validation. Communications device characterization. Manufacturing S-parameter qualification in R&D and production environments.Compatibility & Integration USB, GPIB, LAN, Serial, and Parallel interfaces enable control of external test equipment including power meters and signal sources. Shares core firmware with the PNA series. Upgrade path from N52xxA to N52xxB models available, with Windows OS options (Windows 10 to Windows 11).

N5239A Characteristics / Specifications

PARAMETER	VALUE
Model	N5239A
Instrument Type	Microwave vector network analyzer
Instrument Family	PNA-L Series
Frequency Range	300 kHz to 8.5 GHz
Frequency Resolution	1 Hz
Frequency Accuracy	±1 ppm
Frequency Stability High Stability	±0.05 ppm, minus 10 C to 70 C
Frequency Aging High Stability	±0.1 ppm/yr maximum
Test Port Impedance	50 ohm
Test Port Connector	ruggedized 3.5 mm male
Port Options	2-port Option 200 or Option 216
Power Resolution	0.01 dB
Maximum Settable Power Typical	+30 dBm
If Bandwidth For Dynamic Range Tables	10 Hz
Operating Temperature Spec	25 C ±5 C after 90 minutes warm-upSParameter Test Set: built-in integrated
Remote Interfaces	USB LAN GPIB class PNA-L family
Form Factor	benchtop PNA-L
Series Family	Keysight PNA-L N523xA
Calibration Kits Cited	85052B N4691B N4433A
Source Architecture	one synthesized source
Sweep Types	linear and segment sweeps
Display	PNA-L A-series graphical interface
Bandwidth	For Dynamic Range Tables: 10 Hz
Operating temperature	Spec: 25 C ±5 C after 90 minutes warm-upSParameter Test Set: built-in integrated

N5239A Specifications

PARAMETER	VALUE
Applications	Economy RF/microwave S-parameter measurements to 8.5 GHz, 2-port production test, and general component characterization.
Ruggedized 3.5 mm male test ports	Option 216 extended power range with source attenuators
Technical Specifications	Model: N5239A

General Specifications & Supplementary Characteristics

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Display	PNA-L A-series graphical interface Notes Numeric rows from Keysight N5239A, N5231A, and N5232A 2-port and 4-port PNA-L Network Analyzer Data Sheet and Technical Specifications 9018-04407. Banded dynamic-range tables match the A-revision sheet; use that document for option-dependent power.

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 the same 2-port Option 200/216 architecture as later B-revision PNA-L analyzers.

Applications
Economy RF/microwave S-parameter measurements to 8.5 GHz, 2-port production test, and general component characterization.

Key Features
PNA-L A-revision integrated VNA
Ruggedized 3.5 mm male test ports
Option 216 extended power range with source attenuators
10.4 inch class PNA-LAdisplay architecture
USB LAN GPIB remote IO

Technical Specifications

Technical Specifications

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Notes
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Ordering Information

OPTION	DESCRIPTION
Option 216	extended power range with 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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