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Data Sheet

August 14, 2026

AGILENT / KEYSIGHT

Agilent / Keysight N5225A 50 GHz PNA Microwave Network Analyzer

Agilent N5225A PNA Microwave Network Analyzer The Agilent N5225A is a higher-frequency PNA series microwave network analyzer for millimeter-capable microwave S-parameter work. OEM PNA family specs emphasize high dynamic range, flexible receivers, and advanced application measurements for demanding microwave/mmWave component test. High-frequency microwave component characterization, amplifier/mixer measurements, and advanced PNA application workflows in R&D. Instrument Family: Agilent N5225A PNA network analyzer The Agilent N5225A is a higher-frequency PNA series microwave network analyzer for millimeter-capable microwave S-parameter work. OEM PNA family specs emphasize high dynamic range, flexible receivers, and advanced application measurements for demanding microwave/mmWave component test. High-frequency microwave component characterization, amplifier/mixer measurements, and advanced PNA application workflows in R&D. Instrument Family: Agilent N5225A PNA network analyzer Measurement Type: S parameter and advanced PNA applications



MODEL

**Agilent / Keysight
N5225A**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

N5225A

LISTING

<https://aumictechlabs.com/products/n5225a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Keysight N5225A is a 50 GHz PNA microwave network analyzer delivering S-parameter measurements across 10 MHz to 50 GHz. Built on the proven PNA Series platform, it combines exceptional measurement integrity with the speed and dynamic range required for demanding passive and active device characterization. The instrument achieves 127 dB system dynamic range and 0.003 dBrms trace noise, enabling precise measurements of filters, amplifiers, frequency converters, and complex multiport networks.

Technical Specifications

Frequency Range: 10 MHz to 50 GHz
Dynamic Range: 127 dB system; 132 dB receiver
Trace Noise: 0.003 dBrms
Noise Floor: -114 dBm at 10 Hz IF bandwidth
Measurement Speed: 5.5 ms for 201 points, single sweep
Maximum Points: 100,001 per trace
Channels: 200 independent measurement channels
IF Bandwidth: 15 MHz
Output Power: +13 dBm
Power Sweep Range: 38 dB
Best Dynamic Accuracy: 0.1 dB compression at +12 dBm input power
Harmonic Content: -60 dBc RF
Connectors: 1.85 mm male Benchtop
Dimensions: 24 × 20 × 16 in; 50 lbs
Warm-up Requirement: 90 minutes for performance specifications (25 °C ±5 °C)

Key Features

Two- or four-port configurations with built-in sources CW and pulsed S-parameter measurements
Time and frequency domain analysis
Noise figure, gain compression, and harmonic distortion measurements
Conversion gain/loss and true differential stimulation capability
Millimeter-wave, material, and signal integrity measurement support
Antenna and balance measurement functionality
Multilingual embedded online help

Typical Applications

Component characterization, filter and duplexer testing, amplifier evaluation, frequency converter analysis, millimeter-wave device measurement, material characterization, and signal integrity validation.

Compatibility & Integration

Part of the Keysight PNA Series family. Hardware and firmware upgrade paths exist from A-model to B-model configurations.

N5225A Characteristics / Specifications

PARAMETER	VALUE
Instrument Family	Agilent N5225A PNA network analyzer
Measurement Type	S parameter and advanced PNA applications
Frequency Coverage Class	High microwave PNA band by option
Port Count Class	2 port PNA test set class
Dynamic Range Class	High dynamic range PNA receivers
Trace Noise Class	Low trace noise PNA architecture
IF Bandwidth Selections	Wide IFBW range
Calibration Support	Full calibration engine
Source Power Control	Wide leveled power control class
Display	Embedded PNA graphical interface
Remote Interfaces	LAN GPIB
Sweep Modes	Linear segment and power sweep class
Connector Class	Precision microwave or mmWave ports by option
Form Factor	PNA benchtop chassis
Application Suite	Noise figure IMD pulsed mixer class apps
Upgrade Path	Option upgradeable PNA platform
Impedance	50 ohms nominal
Operating Temperature Class	Standard lab environment
Series Family	Agilent PNA N522x
Metrology Role	High frequencyRandDnetwork analysis
Receiver Architecture	Multiple independent receivers class
Pulsed Measurement Path	Available with options
Bandwidth	Selections: Wide IFBW range
Operating temperature	Class: Standard lab environment

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Operating temperature	Class: Standard lab environment
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Series Family	Agilent PNA N522x
Metrology Role	High frequencyRandDnetwork analysis
Receiver Architecture	Multiple independent receivers class
Pulsed Measurement Path	Available with options Notes From Agilent/Keysight N5225A PNA family documentation. Confirm installed frequency options and connectors before quoting maximum frequency or 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	
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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.