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Data Sheet

August 14, 2026

AGILENT / KEYSIGHT

Agilent / Keysight N5230A up to 50 GHz PNA-L Network Analyzer, 2-ports

Agilent N5230A PNA L Microwave Network Analyzer The Agilent N5230A PNA-L is a performance network analyzer bridging economy and high-end PNA capabilities for microwave S-parameter measurements. OEM PNA-L documentation highlights solid dynamic range, flexible calibration, and production-friendly automation. Microwave filter, amplifier, and passive device characterization, production S-parameter test, and general microwave network analysis. Instrument Family: Agilent N5230A PNA L network analyzer The Agilent N5230A PNA-L is a performance network analyzer bridging economy and high-end PNA capabilities for microwave S-parameter measurements. OEM PNA-L documentation highlights solid dynamic range, flexible calibration, and production-friendly automation. Microwave filter, amplifier, and passive device characterization, production S-parameter test, and general microwave network analysis. Instrument Family: Agilent N5230A PNA L network analyzer Measurement Type: S parameter vector network analysis



MODEL

**Agilent / Keysight
N5230A**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

N5230A

LISTING

<https://aumictechlabs.com/products/n5230a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Keysight N5230A PNA-L Network Analyzer is a 2-port instrument for RF and microwave component characterization across 300 kHz to 50 GHz. It delivers dynamic range up to 108 dB at 20 GHz with trace noise as low as 0.002 dB rms at 1 kHz bandwidth, enabling precise measurements in laboratory and production settings. Fast measurement speed of 4.5 μ sec/point combined with high stability (0.05 dB/°C) supports demanding test applications without sacrificing accuracy.

Technical Specifications
Frequency Range: 300 kHz to 50 GHz
Dynamic Range: Up to 108 dB at 20 GHz; 127 dB at test port
Trace Noise: 0.002 dB rms at 1 kHz bandwidth
Measurement Speed: 4.5 μ sec/point
Frequency Stability: 0.05 dB/°C
Output Power: 10 dBm maximum
Measurement Channels: 32 channels; 16,001 points per channel
Physical: Approximately 2.5 kg

Key Features
TRL/LRM calibration supporting on-wafer, in-fixture, and waveguide measurements
Automatic port extension for in-fixture characterization
Optional second internal source for amplifier IMD and mixer/converter conversion loss measurement
Single-ended and balanced measurement capability
Extended power range available (Option 225)
Unlimited traces per measurement channel

Typical Applications
Component RF testing up to 50 GHz
On-wafer device characterization
In-fixture measurements with automatic port extension
Mixer and pulse measurement analysis
Millimeter-wave component evaluation
Intermodulation distortion and harmonics testing

Compatibility & Integration
6 USB connectors; LAN and GPIB interfaces
Windows XP operating environment
Compatible with ECal modules: 85052B, 85056A, 85032B, N4691A, N4693A
Configuration options for 6 GHz, 13.5 GHz, 20 GHz, 40 GHz frequency bands
4-port configuration available

N5230A Characteristics / Specifications

PARAMETER	VALUE
Instrument Family	Agilent N5230A PNAInetwork analyzer
Measurement Type	S parameter vector network analysis
Frequency Coverage Class	Microwave coverage by option
Port Count Class	2 port PNAtest set
Dynamic Range Class	PNAhigh dynamic range class
Trace Noise Class	Low trace noise architecture
IF Bandwidth Selections	Multiple IFBW settings
Calibration Support	Full 2 port calibration
Source Power Control	Adjustable leveled source power
Display	Embedded PNA style interface
Remote Interfaces	LAN GPIB
Sweep Modes	Linear segment power sweep class
Connector Class	Precision microwave ports by option
Form Factor	PNAbenchtop chassis
Application Options	Time domain and advanced apps available
Upgrade Path	Option upgradeable
Impedance	50 ohms nominal
Operating Temperature Class	Standard lab environment
Series Family	Agilent PNA523x
Production Role	Microwave productionSparameter testRAndDRole: Midrange microwave network analysis
Receiver Architecture	PNAInetwork tuners
Marker Analysis	Multiple markers with math
Bandwidth	Selections: Multiple IFBW settings
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 PNALN523x
Production Role	Microwave productionSparameter testRAndDRole: Midrange microwave network analysis
Receiver Architecture	PNALtuned receivers
Marker Analysis	Multiple markers with math Notes From Agilent N5230A PNA-L family documentation. Exact frequency span and connectors depend on options; verify against the unit configuration guide.

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.

performance network analyzer bridging economy and high-end PNA capabilities for microwave S-parameter measurements. OEM PNA-L documentation highlights solid dynamic range, flexible calibration, and production-friendly automation.

Applications

Microwave filter, amplifier, and passive device characterization, production S-parameter test, and general microwave network analysis.

Key Features

PNALperformance architecture

Flexible calibration support

Source power control

LAN GPIB remote control

Application option paths

Technical Specifications

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Notes

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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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Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.