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Data Sheet

August 14, 2026

AGILENT / KEYSIGHT

Agilent / Keysight N5230C PNA-L Microwave Network Analyzer

The Agilent N5230C isaPNA-L series microwave network analyzer with frequency options commonly spanning from 300 kHz or 10 MHz starts up to 6, 13.5, 20, 40, or 50 GHz depending on installed option. OEM PNA-L materials emphasize economy microwave S-parameter performance with configurable test set and time domain options. Microwave filter and amplifier S-parameter tests, production multiport component characterization, and general purpose network analysis on the PNA-L platform. Time domain and mixer measurement options Agilent N5230C PNA-L Microwave Network Analyzer The Agilent N5230C isaPNA-L series microwave network analyzer with frequency options commonly spanning from 300 kHz or 10 MHz starts up to 6, 13.5, 20, 40, or 50 GHz depending on installed option. OEM PNA-L materials emphasize economy microwave S-parameter performance with configurable test set and time domain options. Microwave filter and amplifier S-parameter tests, production multiport component characterization, and general purpose network analysis on the PNA-L platform.



MODEL

**Agilent / Keysight
N5230C**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

N5230C

LISTING

<https://aumictechlabs.com/products/n5230c-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Keysight N5230C PNA-L is a configurable microwave network analyzer delivering S-parameter measurements from 300 kHz to 50 GHz. Built with dual sources and up to 137 dB dynamic range, it characterizes passive and active components with speed and precision. The instrument balances cost-effectiveness with enterprise-class firmware, making it ideal for R&D, production test, and general-purpose network analysis across multiple frequency bands and port configurations.

Technical Specifications

Frequency Coverage and Architecture

Configurable bands: 300 kHz–6 GHz, 300 kHz–13.5 GHz, 300 kHz–20 GHz, 10 MHz–20 GHz, 10 MHz–40 GHz, 10 MHz–50 GHz

2-port or 4-port configurations (4-port available for 300 kHz–13.5 GHz and 10 MHz–20 GHz)

Dual built-in sources

32 measurement channels; 32,001 points per sweep

Measurement Performance

Dynamic range: 122 dB (standard), 137 dB (optional); 110 dB system dynamic range

Trace noise: 0.006 dB RMS at 10 Hz IF bandwidth, 10–13.5 GHz

Measurement speed: 7 ms sweep time; 4–9 μ s per point; <4 ms/point IF bandwidth: 1 Hz to 250 kHz

Source harmonics: $\leq$ -60 dBc typical

Output power: +5 dBm typical; +10 dBm; +13 dBm (gain compression at 20 GHz)

Power sweep: Up to 25 dB; 38 dB for gain compression at 20 GHz

Key Features

Vector-error corrected calibration with TRL/LRM, SOLT, LRRM, TRL+/LRM, and LRM/TRL+/LRRM options

Time-domain analysis for impedance measurement and device diagnostics

Fixture de-embedding for accurate device characterization

Mixer conversion loss/gain, magnitude, and phase measurements

AM-AM and AM-PM gain compression analysis

Intermodulation distortion (IMD) measurements via dual sources with internal combiner

Pulsed-RF device characterization

Single-ended, balanced, and mixed-mode differential measurements

Multiport measurement capabilities

On-wafer calibration software compatibility

Typical Applications

Component characterization (active and passive microwave devices)

Manufacturing S-parameter test and validation

Amplifier and mixer characterization

Transmission line and filter analysis

On-wafer device measurement

Compatibility & Integration

Shares core firmware with higher-end PNA series instruments, enabling consistent measurement algorithms and operator familiarity across product lines.

N5230C Characteristics / Specifications

PARAMETER	VALUE
Frequency Start Options	300 kHz or 10 MHz class by option
Frequency Maximum Options	6 13.5 20 40 or 50 GHz class
Instrument Type	microwave vector network analyzer
Series Family	Agilent PNA-L N5230C
System Dynamic Range Class	high PNA-L dynamic range class
IF Bandwidth Settings	selectable including 10 Hz class
Number Of Ports	2 port base with multiport expanders class
Test Port Impedance	50 ohms nominal
Test Port Connector Class	3.5 mm or 2.4 mm by frequency option
Calibration Support	full 2 port and TRL class
Time Domain Option	available
Frequency Offset Mode	available as option
Source Power Control	leveled within option limits
Display And UI	PNA-L graphical interface
Sweep Modes	linear CW segment power sweep class
Upgrade Path	frequency and software option upgradeable
Sibling Platform	PNA and PNA-X family
Configurable Test Set Option	available
Bias Tee Options	available on selected configurations
Remote Interfaces	LAN USB GPIB class
Form Factor	benchtop instrument
Operating Temperature Class	standard laboratory class
Calibration Interval Class	annual calibration class recommended
Power Mains Class	100 to 240 VAC class
Firmware Upgrade Path	option and firmware upgradeable class

PARAMETER	VALUE
Bandwidth	Settings: selectable including 10 Hz class
Operating temperature	Class: standard laboratory class

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Operating temperature	Class: standard laboratory class
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Calibration Interval Class	annual calibration class recommended
Power Mains Class	100 to 240 VAC class
Firmware Upgrade Path	option and firmware upgradeable class Notes Exact start/stop frequency and connector type depend on installed N5230C frequency option. Cite the PNA-L configuration guide for the option row on the unit.

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 with configurable test set and time domain options.

Applications

Microwave filter and amplifier S-parameter tests, production multiport component characterization, and general purpose network analysis on the PNA-L platform.

Key Features

PNA-L Windows measurement environment

Multiple maximum frequency options

Configurable test set option path

Time domain and mixer measurement options

LAN GPIB automation

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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.