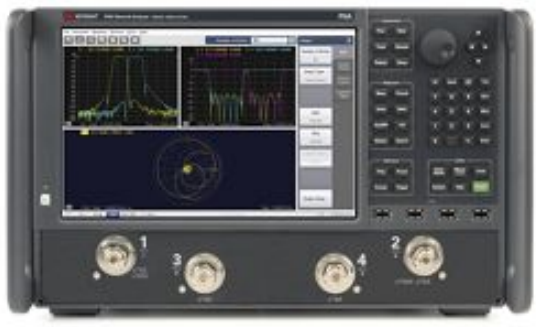
Aumictech
Test & measurement · bought, sold, repaired, calibrated

Data Sheet
August 14, 2026

AGILENT / KEYSIGHT

Agilent / Keysight N5227A 67 GHz PNA Microwave Network Analyzer

Agilent N5227A PNA Microwave Network Analyzer The Agilent N5227A isaPNA series microwave network analyzer with maximum frequency to 67 GHz class on millimeter-wave capable configurations. OEM PNA N522xA materials emphasize high dynamic range S-parameter measurements, configurable test sets, and millimeter-wave extender compatibility. Millimeter-wave component characterization, broadband device S-parameter tests, andRandDnetwork analysis on the modern PNA platform. Frequency Range Class: 10 MHz to 67 GHz by option The Agilent N5227A isaPNA series microwave network analyzer with maximum frequency to 67 GHz class on millimeter-wave capable configurations. OEM PNA N522xA materials emphasize high dynamic range S-parameter measurements, configurable test sets, and millimeter-wave extender compatibility. Millimeter-wave component characterization, broadband device S-parameter tests, andRandDnetwork analysis on the modern PNA platform. Frequency Range Class: 10 MHz to 67 GHz by option Instrument Type: microwave vector network analyzer



MODEL **Agilent / Keysight N5227A**	CALIBRATION **Available on request**
CONDITION **Used**	STATUS **In stock**
RFQ / SKU **N5227A**	LISTING **https://aumictechlabs.com/products/n5227a-2/**

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

NAICS 423690 · 811210 · 541380

This unit

The Keysight N5227A is a 67 GHz PNA microwave network analyzer engineered for high-accuracy RF and microwave characterization from 10 MHz to 67 GHz. It delivers superior dynamic range and noise performance across 2-port and 4-port configurations, supporting both active and passive component measurements in R&D and manufacturing environments. The instrument combines fast acquisition speeds with exceptional measurement fidelity for signal integrity and millimeter-wave applications.Technical Specifications Frequency Range: 10 MHz to 67 GHz Port Configurations: 2-port (single source) or 4-port (dual source) with selectable options including front-panel jumpers, receiver switches, source/receiver attenuators, and bias-tees Dynamic Range: System: 128 dB Receiver: 133 dB or 131 dB Test port: >127 dB above 500 MHz Extended range available in segment sweep mode for high-insertion-loss devices Noise and Accuracy: Trace noise: 0.002 dBrms Noise floor: -117 dBm at 10 Hz IF bandwidth Dynamic accuracy: 0.1 dB compression at +12 dBm input power Source Performance: Maximum output: +13 dBm Power sweep range: 38 dB Harmonic content: -60 dBc Data Acquisition: Points: 100,001 or 32,001 Channels: 200 or 32 IF bandwidth: 15 MHz Fast sweep: 6.3 ms (201 points) Connectors: 1.85 mm standard; 2.4 mm mechanically compatible with precision adapters for SMA, 3.5-mm, and 2.92-mm transitionKey Features Segment sweep mode optimizes power output across predefined frequency bands Trace noise of 0.002 dBrms enables detection of subtle component variations Up to 100,001 points per sweep for fine resolution in complex measurements System specifications valid 25 °C ±5 °C after 90-minute warm-upTypical Applications Active and passive component characterization; millimeter-wave signal integrity analysis; broadband RF device testing; high-insertion-loss device measurement via extended dynamic range modesCompatibility & Integration Recommended calibration kits and test port cables minimize measurement uncertainty. Field upgrade path available from A-model to B-model configuration. Weight: 50 lbs.

N5227A Characteristics / Specifications

PARAMETER	VALUE
Frequency Range Class	10 MHz to 67 GHz by option
Instrument Type	microwave vector network analyzer
Series Family	Agilent PNA N5227A
Maximum Frequency Class	67 GHz
System Dynamic Range Class	high PNA dynamic range class
IF Bandwidth Settings	selectable including 10 Hz class
Number Of Ports	2 port base
Test Port Impedance	50 ohms nominal
Test Port Connector Class	1.85 mm class on high band options
Calibration Support	full 2 port TRL LRM class
Time Domain Option	available
Frequency Offset Mode	available as option
Source Power Control	leveled within option limits
Display And UI	PNA graphical interface
Extender Compatibility	millimeter wave extender path class
Upgrade Path	frequency and software upgradeable
Configurable Test Set Option	available
Bias Tee Options	available class
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
Bandwidth	Settings: selectable including 10 Hz class

PARAMETER	VALUE
Operating temperature	Class: standard laboratory class

N5227A Specifications

PARAMETER	VALUE
Agilent N5227A PNA Microwave Network Analyzer	Overview
Applications	Millimeter-wave component characterization, broadband device S-parameter tests, and R and D network analysis on the modern PNA platform.
Modern PNA measurement platform	High frequency option to 67 GHz class
Technical Specifications	Frequency Range Class: 10 MHz to 67 GHz by option

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Operating temperature	Class: standard laboratory class
Operating Temperature	Class: standard laboratory class
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 Notes From Agilent/Keysight N5227A PNA product documentation. Exact maximum frequency and connector depend on installed option; cite the configuration guide row.

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

Specifications

PARAMETER	VALUE
Frequency Range Class	10 MHz to 67 GHz by option
Instrument Type	microwave vector network analyzer
Series Family	Agilent PNA N5227A
Maximum Frequency Class	67 GHz
System Dynamic Range Class	high PNA dynamic range class
IF Bandwidth Settings	selectable including 10 Hz class
Number Of Ports	2 port base
Test Port Impedance	50 ohms nominal
Test Port Connector Class	1.85 mm class on high band options
Calibration Support	full 2 port TRL LRM class
Time Domain Option	available
Frequency Offset Mode	available as option
Source Power Control	leveled within option limits
Display And UI	PNA graphical interface
Extender Compatibility	millimeter wave extender path class
Upgrade Path	frequency and software upgradeable
Configurable Test Set Option	available
Bias Tee Options	available class
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

Notes

From Agilent/Keysight N5227A PNA product documentation. Exact maximum frequency and connector depend on installed option; cite the configuration guide row.

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
788 S 500 E, Pleasant Grove, UT 84062
sales@aumictech.com · +1 (484) 841-9341
https://aumictechlabs.com

NIST-traceable calibration · SAM registered · 30-day returns
NAICS 423690 · 811210 · 541380
Generated August 14, 2026