

KEYSIGHT TECHNOLOGIES (AGILENT HP)

N5224B

The Keysight N5224B is a high-performance PNA Series Vector Network Analyzer operating from 10 MHz to 43.5 GHz. Designed for demanding active and passive microwave component testing, it features exceptionally high dynamic range, low trace noise, and high stability, making it the industry standard for precision microwave measurements.

SPECIFICATIONS

General

Display	12.1-inch WXGA (1280 x 800) capacitive multi-touch screen
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Frequency and System Performance

Frequency Range	10 MHz to 43.5 GHz
Number of Built-in Ports	2 or 4 ports (option dependent)
Frequency Resolution	1 Hz
Maximum Number of Measurement Points	100,001

Measurement Capabilities & Sweep

Supported S-Parameters	S11, S21, S12, S22 (2-port configurations); up to S44 (4-port configurations)
Sweep Types	Linear Frequency, Log Frequency, Power Sweep, CW Time, Segment Sweep
Calibration Methods	SOLT, TRL, TRM, LRM, Unknown Thru, ECal

Connectivity & Rear Panel Interfaces

Test Port Connector Type	2.4 mm male (50 ohm)
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Software & Firmware Applications

Automatic Calibration (ECal) Support	Yes
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Connectivity

LAN Interface Speed	10/100/1000Base-T (Gigabit Ethernet)
Rear Panel GPIB Ports	1 x Talker/Listener, 1 x Controller

Rear Panel Connectors

Bias Tee Inputs	BNC female (one per test port)
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Measurement Applications

Pulse Measurement Capability	Supported (with Option 025)
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TECHNOLOGY

Vector Network Analyzer

APPLICATIONS

Microwave component characterization, active device testing, and signal integrity analysis

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