

KEYSIGHT TECHNOLOGIES (AGILENT HP)

N5247B

The Keysight N5247B is a high-performance PNA-X Microwave Network Analyzer capable of measurements up to 67 GHz. Designed to replace multiple pieces of test equipment, it provides a highly integrated and flexible platform for measuring active devices such as amplifiers, mixers, and frequency converters. Featuring an advanced multi-touch interface, it supports a wide array of single-connection, multiple-measurement applications including S-parameters, noise figure, gain compression, and spectrum analysis.

SPECIFICATIONS

General

Interfaces	LAN, USB, GPIB
Display	12.1-inch capacitive multi-touch LCD
Electronic Calibration (ECal) Support	Supported via USB
mmWave Extender Support	Supported (Compatible with VDI, OML, and Keysight N529x series)
Calibration Cycle	1 year

General Characteristics

Frequency Range	10 MHz to 67 GHz (900 Hz with option)
Number of Test Ports	2 or 4 (configuration dependent)
Test Port Connector Type	1.85 mm male
Test Port Impedance	50 Ω
Number of Internal Sources	1 (2-port models) or 2 (4-port models)
Built-in Bias Tees	Included (option dependent)

System Performance

Maximum Data Points per Sweep	100,001
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Test Port Output (Source)

Frequency Resolution	1 Hz
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Advanced Measurement Capabilities

Noise Figure Measurement	Supported (option dependent)
Spectrum Analysis Capability	Supported (option dependent)
Intermodulation Distortion (IMD)	Supported
Gain Compression Measurement	Supported
Pulsed-RF Measurement Capabilities	Supported (option dependent)
Non-Linear Vector Network Analysis (NVNA)	Supported (option dependent)
True-Mode Stimulus (Differential) Support	Supported (4-port models with option)

Data Processing & Control

Operating System	Windows 10
Internal Storage	Solid State Drive (SSD)
Time Domain Transformation	Supported (option dependent)
Fixture Simulator / De-embedding	Supported

Front & Rear Panel Interfaces

Display Size	12.1 in
Display Resolution	1280 x 800
Trigger Inputs/Outputs	BNC
10 MHz Reference Input	BNC
10 MHz Reference Output	BNC

Performance

Sweep Types	Linear frequency, log frequency, CW time, power, segment, phase
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Inputs & Outputs

Receiver Damage Level	+27 dBm, 40 VDC
Direct Receiver Access	Supported (Configuration/Option dependent)

Measurement Capabilities

Mixer / Converter Measurements	Supported (Scalar and Vector, configuration dependent)
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Compliance

LXI Compliance	LXI Core compliant
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TECHNOLOGY

Vector Network Analysis (VNA)

APPLICATIONS

Active device characterization, microwave component testing, amplifier and mixer measurements, radar and satellite component test

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