

KEYSIGHT TECHNOLOGIES (AGILENT HP)

E5061B

The Keysight E5061B is a versatile ENA Series vector network analyzer that offers a broad frequency coverage from 5 Hz to 3 GHz. It provides high-performance network analysis for testing RF and LF components, including filters, amplifiers, PDNs, and DC-DC converters. The platform is highly configurable, offering 50 Ω and 75 Ω system impedance choices, Transmission/Reflection or S-parameter test sets, and a specialized LF-RF option with built-in DC bias and optional impedance analysis.

SPECIFICATIONS

General

Interfaces	USB, LAN, GPIB
Display	10.4-inch TFT color LCD

Physical

Power Supply	100 to 240 VAC, 50/60 Hz, 350 VA max
Operating Temperature	5 °C to 40 °C °C
Weight	10.6 kg (RF options) / 11.8 kg (LF-RF Option 3L5) kg

General Characteristics

Architecture / Device Type	RF / LF-RF Vector Network Analyzer
Number of Test Ports	2
System Impedance (50 Ω)	Supported (Options 115, 215, 135, 235, 3L5)
System Impedance (75 Ω)	Supported (Options 117, 217, 137, 237)
Transmission/Reflection Test Sets	Options 115, 135, 117, 137
S-Parameter Test Sets	Options 215, 235, 217, 237, 3L5

Frequency Characteristics

Frequency Range (1.5 GHz Options)	100 kHz to 1.5 GHz (Options 115, 215, 117, 217)
Frequency Range (3 GHz Options)	100 kHz to 3 GHz (Options 135, 235, 137, 237)
Frequency Range (LF-RF Option)	5 Hz to 3 GHz (Option 3L5)

Test Port Output (Source) Characteristics

DC Bias Source (Option 3L5)	0 to ± 40 Vdc (sweepable)
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Test Port Input (Receiver) Characteristics

System Dynamic Range (> 1 MHz)	120 dB (Option 3L5 S-parameter port)
Gain-Phase Test Port Frequency Range	5 Hz to 30 MHz (Option 3L5)
Gain-Phase Test Port Input Impedance	Switchable 1 M Ω / 50 Ω (Option 3L5)

Measurement Configuration

Number of Channels	4
Data Traces	Up to 4 per channel
Measurement Points	2 to 1601

Sweep

Sweep Types	Linear frequency, log frequency, segment, power
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Receiver

IF Bandwidth (IFBW)	1 Hz to 300 kHz
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Physical & Connectivity

Test Port Connectors	Type-N (female)
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Options & Upgrades

Time Domain / Fault Location	Option 010
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Calibration

Electronic Calibration (ECal)	Supported
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Performance

Source Power Resolution	0.05 dB
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Environmental

Storage Temperature	-10 °C to 60 °C
Operating Humidity	20% to 80% RH (non-condensing)

TECHNOLOGY

Vector Network Analysis (VNA)

APPLICATIONS

RF Component Test, LF Measurement, PDN Evaluation, Loop-Gain Evaluation, Impedance Analysis

Generated by SpecAtlasHub (specatlashub.com). Specifications are compiled from available sources and are subject to change — verify critical values against the manufacturer before purchase.