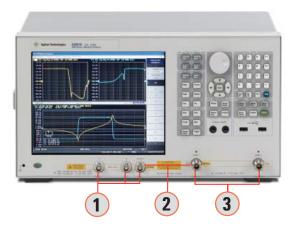
Agilent E5061B-3L5 Network Analyzer

General purpose LF-RF network analyzer which supports network and impedance analysis

The Agilent E5061B is a member of the industry standard ENA Series network analyzers. The E5061B-3L5 LF-RF NA option covers broad frequency range from 5 Hz to 3 GHz and is an ideal solution for the R&D environment. Additionally, the E5061B-3L5 supports option 005 impedance analysis firmware providing a versatile one-box solution for network and impedance analysis in the LF to RF range.





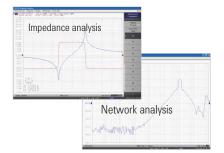
- 1. Gain-phase test port: 5 Hz to 30 MHz, BNC;
 - · LF OUT (source)
 - R (1 M Ω / 50 Ω)
 - T (1 MΩ/ 50 Ω)
- 2. Built-in DC bias source: DC bias (up to ±40 Vdc) can be applied from the LF OUT or port 1.
- 3. S-parameter test port: 5 Hz to 3 GHz, type-N (50 Ω)

Comprehensive LF-to-RF network analysis

The E5061B-3L5 offers full-fledged LF network measurement with two types of test ports. The built-in S-parameter test set sweeps from 5 Hz to 3 GHz with excellent dynamic range. The gain-phase test port provides direct receiver access for LF applications from 5 Hz to 30 MHz. The input impedance of the gain-phase ports can be switched 50 Ω to 1 $M\Omega$. The built-in 1 $M\Omega$ inputs allow you to easily perform in-circuit probing measurements for amplifiers and DC-DC converter control loops.

Impedance analysis firmware option

The E5061B-005 impedance analysis firmware option for the E5061B-3L5 enables you to use the E5061B-3L5 as an impedance analyzer for evaluating electronic components. Basic impedance analysis functionalities including fixture compensation and equivalent circuit analysis are supported by the E5061B-005. Also, the DC biased impedance measurement is possible with the built-in DC bias source provided by the E5061B-3L5.



NA + ZA in one box



Impedance measurement with reflection method (for low-to-middle impedance)



Impedance measurement with gainphase series-thru method (for middle-to-high impedance)



Quick Fact Sheet

Model

Model	Description
E5061B	Network analyzer

Basic Option¹

Test set option	Description
E5061B-3L5 ²	LF-RF network analyzer with DC bias source, 5 Hz to 3 GHz

Other option	Description
E5061B-005	Add Impedance analysis function for LF-RF network analyzer
E5061B-1E5	High stability timebase
E5061B-010	Time domain / Fault location analysis
E5061B-720	Add 50 Ω resister set ⁴
E5061B-020 ³	Standard hard disk drive
E5061B-810	Add keyboard
E5061B-820	Add mouse

- 1. For other options such as rack mount kit and compliant calibration, refer to configuration guide
- 2. E5061B has RF option. As for the RF option, refer to 5990-6785EN.
- 3. The E5061B-020 is the only hard disk drive option available.
- 4. For calibration at test fixtures. Required for the gain-phase series-thru method.

Typical configuration example

Model/part number	Description
85033E	$50~\Omega$ standard calibration kit, DC to 9 GHz, 3.5 mm (for network analysis at S-parameter test port)
11667L	BNC-type power splitter (for transmission measurement with gain-phase port)
16201A-001	7 mm terminal adapter kit
16195B	7 mm cal kit (for calibration at 7 mm plane of 16201A)
16092A	Impedance test fixture (for S-param. port, leaded/SMDs)
16047E	Impedance test fixture (for gain-phase port, leaded DUTs)

For more details on accessories, refer to the "E5061B Configuration Guide", publication number 5990-4391EN.

www.agilent.com/find/e5061b

For additional product information about the E5061B, refer to following literature.

Pub number	Name
5990-6794EN	Brochure
5990-4391EN	Configuration Guide
5990-4392EN	Data Sheet

Recommended service options

Additional two years of Return-to-Agilent warranty
Additional two years of Return-to-Agilent calibrations

For more information go to www.agilent.com/find/removealldoubt

Product specifications and descriptions in this document subject to change without notice.

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