

Agilent Technologies Inc today introduced two options for its ENA Series E5061B 5-Hz to 3-GHz vector network analyzer. The new RF NA (network analysis) and ZA (impedance analysis) options increase the analyzer's frequency range, speed, upgradability and versatility. This enables the analyzer to deliver solid performance for basic RF network and impedance measurements at a reasonable price.

“As a general-purpose low frequency-to-RF network analyzer that can be used for a variety of network measurements, the ENA series E5061B delivers excellent RF performance and an accurate low-frequency measurement capability,” said Akira Nukiyama, vice president and general manager of Agilent Technologies' component test division, Japan. “The new options further extend the E5061B's functionality to enable faster, more efficient development, making it ideal for a broad range of customer applications, including general R&D, research/education and manufacturing.”

RF NA options

Agilent's RF NA option to the E5061B offers a direct replacement to the existing low-cost E5061A and E5062A RF network analyzers. The new option delivers significantly faster measurement speed (10 times wider intermediate frequency bandwidth). Operating from 100 kHz to 1.5/3 GHz, the RF NA option is available as either a two-port S-parameter, or as a transmission/reflection test set, with a 50- or 75-ohm port impedance. All versions are available at the same or lower price than the E5061A/E5062A network analyzers.

The start frequency of the RF NA option has been expanded down to 100 kHz (compared to the E5061A/62A), providing engineers with the enhanced functionality and capabilities needed to address new applications (e.g., automotive antenna production). In addition, the option features an enhanced user interface and improved analog performance, which results in increased test efficiency.

ZA Option

The new ZA software option adds an impedance analysis function to the E5061B-3L5 LF-RF network analyzer, offering a migration path for legacy network plus impedance combination analyzer users. With the ZA option, engineers now have access to a one-box network analyzer and impedance analyzer solution that is ideal for a broad range of R&D applications within the 5-Hz to 3-GHz frequency range. Coupled with the E5061B's enhanced user interface and improved performance, this one-box solution enables engineers to experience faster, more efficient development.

The ZA option provides fixture compensation support for accurate impedance measurements and an equivalent circuit analysis function that can be used to characterize the device under test. It is complemented by new test accessories for impedance measurements, including a 50-ohm resistor set and a terminal adapter kit for 7-mm connector fixtures.

The Agilent E5061B addresses a broad range of measurement needs for electronic components and circuits, from low to high frequencies. The E5061B is the ideal solution for applications in wireless communication, aerospace and defense, computer, medical, automotive, CATV, and many other industries. The E5061B provides a new standard of frequency-domain device analysis, from 5 Hz to 3 GHz.

U.S. Pricing and Availability

Agilent's new E5061B RF network analysis and ZA options are expected to ship at the end of February 2011. Pricing for the options are as follows:

50 ohm RF NA Option

E5061B-115 100 kHz to 1.5 GHz, Trans./Refl. test set \$14,800

E5061B-215 100 kHz to 1.5 GHz, S-parameter test set \$20,600

E5061B-135 100 kHz to 3 GHz, Trans./Refl. test set \$20,600

E5061B-235 100 kHz to 3 GHz, S-parameter test set \$23,700

75 ohm RF NA Option

E5061B-117 100 kHz to 1.5 GHz, Trans./Refl. test set \$14,800

E5061B-217 100 kHz to 1.5 GHz, S-parameter test set \$20,600

E5061B-137 100 kHz to 3 GHz, Trans./Refl. test set \$20,600

E5061B-237 100 kHz to 3 GHz, S-parameter test set \$23,700

ZA Option (applicable to the LF-RF NA option (E5061B-3L5) only):

E5061B-005 Impedance analysis function for LF-RF NA \$3,100

Accessories for ZA Option

16201A-001 7 mm terminal adapter for E5061B \$1,100

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