Vector Network Analyzer Options Deliver RF Network, Impedance Analysis

Agilent Technologies Inc. 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.

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.

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.