Vector Network Analyzer Delivers Enhanced Capability

Agilent Technologies introduced the newest member of its popular ENA Series of network analyzers, the E5072A vector network analyzer.

Available as either a two-port, 30-kHz to 4.5-GHz or 8.5-GHz instrument, the E5072A offers improved performance over current RF network analyzers, enhanced functionality, a configurable test set, and a wide output power level for full characterization of devices. Such capabilities make it ideal for RF antenna test as well as high-power, power amplifier and high-rejection filter measurements.

The E5072A, available with a sweep time of 4 ms with 401 points, is designed for cost-sensitive manufacturing customers requiring higher performance than comparably priced RF network analyzers. It addresses this need by delivering enhanced capability and performance at an affordable cost.

The E5072A offers enhanced functionality and additional capability based on the ENA Series platform. A configurable test set allows users access to the instrument’s internal source and receivers, which extends its dynamic range of forward measurements up to 151 dB. It also allows users to add components in support of a wider range of applications. Additionally, the E5072A features a wide output power level, up to +20 dBm, for measuring the compression characteristics of active devices without added amplifiers. Characterization of an active device’s linear and nonlinear region can be achieved with a single power sweep.

“By adding the new E5072A vector network analyzer to our ENA Series of industry-standard products, we are giving our customers a competitive advantage on their cost-of-ownership requirements, said Akira Nukiyama, vice president of Agilent’s Component Test Division in Japan. “Moreover, it is an ideal upgrade to our existing 8753 vector network analyzers.”

The Agilent ENA Series network analyzers offer a wide range of LF to RF solutions, from very low cost basic S-parameter measurements to advanced multiport and balanced measurements. Designed to meet multiple network analysis needs, the ENA Series offers efficiency and flexibility for both manufacturing and R&D applications in the wireless communications, automotive, semiconductor and medical industries, among others. With addition of the new E5072A, the ENA Series now expands its coverage to active component test for manufacturing customers.

U.S. Pricing and Availability

The Agilent E5072A RF vector network analyzer is now available. Pricing is as follows:

Test set option

E5072A-245	30 kHz to 4.5 GHz, configurable test set	$37,044
E5072A-285	30 kHz to 8.5 GHz, configurable test set	$44, 247

Software option

E5072A-008	Frequency offset mode	$5,361
E5072A-010	Time-domain analysis	$6,004

Agilent will showcase its newest design and test innovations for advanced RF and microwave research, development and manufacturing at the 2011 IEEE MTT-S International Microwave Symposium [1], Baltimore Convention Center (Booth 813), in Baltimore, Md., June 7-9. Agilent and its solution partners will be on Agilent Avenue [2] to connect expert to expert with leaders in the industry.

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