

Noise Figure Analyzers & Noise Sources



Agilent
N4000A, N4001A, N4002A
SNS Series Noise Sources
10 MHz to 26.5 GHz

Noise sources designed
to meet specific needs



The Agilent SNS Series of noise sources work in conjunction with

- NFA Series noise figure analyzers
- X-Series signal analyzers
- ESA E-Series spectrum analyzers

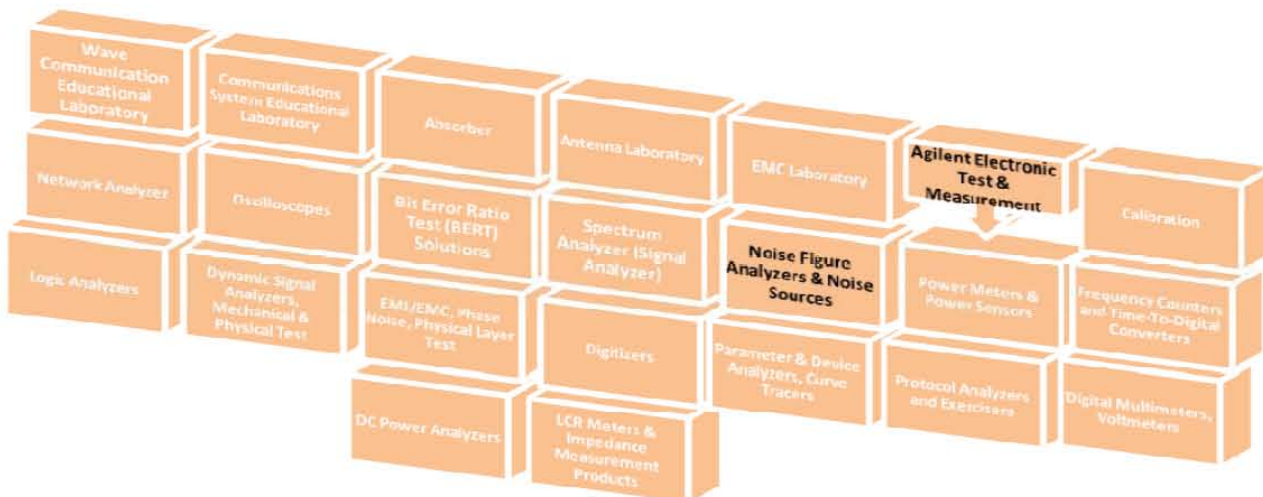
To simplify measurement set-up and improve accuracy these noise sources automatically download electronically stored calibration data to the compatible Agilent noise figure measuring analyzers. The noise sources also have the capability to automatically measure their own temperature so that compensation can be applied to the calibration data. These capabilities increase the overall reliability and accuracy of noise figure measurements.

SNS Series key features and benefits

- Automatic download of ENR data to the analyzer speeds overall setup time
- Electronic storage of Excess Noise Ratio (ENR) calibration data decreases the opportunity for user error.
- Temperature sensing improves measurement accuracy, leading to tighter specification of device performance.

The N4000A and N4001A, which cover the 10 MHz to 18 GHz frequency range, come with an APC 3.5 (m) connector as standard, and offer the option of a Type-N (m) connector.

The N4002A, which covers the frequency range 10 MHz to 26.5 GHz, has an APC 3.5 (m) connector as standard.



Improve the design and manufacture of your receiver components—and gain a competitive edge

Whether you are working with systems, subsystems, subassemblies, or discrete devices, each of your components adds noise that affects the overall performance of the receiver. By measuring and reducing noise figure, you can give your products a competitive edge.

The NFA series is a family of dedicated noise figure analyzers, designed to provide comprehensive characterization of your device under test at a reasonable cost. These analyzers offer the traditional benefits of a noise-figure meter, plus the added features and functions most often requested by R&D and production-test engineers and technicians.

Easy measurement of amplifiers and frequency converting devices

- Flexible and intuitive user interface
- Color graphical display with markers and limit lines

Frequency range to 26.5 GHz and beyond...

- One-box analyzers to 26.5 GHz
- Custom solutions to even higher frequencies

Accurate and repeatable results

- Low instrument uncertainty
- Compatible with new, improved noise sources

Achieve more in less time

With the NFA series, you'll make better measurements, more quickly. Ease-of-use features make it easier for any engineer or technician to set up measurements correctly, view measurements in different formats, and print the results or save them to disk. On-screen limit lines simplify pass/fail testing.

Perform your measurements to the latest and most exacting specifications with extended frequency coverage, high performance features, and selectable measurement bandwidths. Repeatable, reliable measurements provide results that you can trust. You will be able to produce more robust designs and prototypes in the lab, and achieve higher yields and throughput in manufacturing.

