# Maury Best-in-Class Solutions

## Power Sensors, Noise Sources, RF Synthesizers, Automated Impedance Tuners

Maury Microwave best-in-class solutions encompass a broad range of products designed to solve your most complex measurement challenges. Our USB power sensors deliver no gaps in acquisition and zero measurement latency. Maury automated impedance tuners have been designed for on-wafer applications with maximum VSWR at the probe tip. Our RF synthesizers offer the ultimate mix of fast switching speeds and low phase noise, while our noise sources generate AWGN signals that are high-power and offer high ENR.

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# Product Overview

## RTP5000 Series Real-time USB Peak Power Sensors

Providing the highest video bandwidth and fastest rise times, RTP5000 USB peak power sensors with Real-Time Power Processing™ deliver 100,000 measurements per second, no gaps in signal acquisition and zero measurement latency. Combining this performance with automatic pulse measurements, CCDF and crest factor statistical analysis, multi-channel capabilities, and documentation tools, RTP5000 peak power sensors are the ideal instrument for fast, accurate, and reliable RF power measurements.

## RTP4000 Series Real-time True-average Power Sensors

With virtually unlimited capture length and a measurement reading rate of 100,000 per second, the RTP4000 series delivers fast, accurate, and reliable results for both continuous wave (CW) and modulated signals, driving higher test throughput. The RTP4040 40 GHz model extends these capabilities, further enabling our capacity to address the power measurement demands of high-frequency, wide-bandwidth applications, such as radar, 5G/6G, Wi-Fi 7, and EMC compliance testing.

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## Nano™ Series Automated Impedance Tuners

Nano-series automated impedance tuners have been optimized for on-wafer integration. The Nano-series tuners have been designed to directly connect to wafer probes thereby eliminating the need for short integration of cables or probe mounts. The direct connection offers two advantages: maximizing VSWR at the DUT reference plane and minimizing phase skew at the DUT reference plane.

## NGX1000 Series RF Noise Generator

The NGX1000 programmable noise generator is a high performance, broadband additive white gaussian noise (AWGN) generator in an easy-to-use compact form factor. The streamlined user interface and flat menu structure provides a fast, simple way to add RF noise in a communications system to test reliability, robustness, and performance. All functionality of the generator is accessible through the 5” touch screen or via remote control through an ethernet connection delivering flexible, programmable noise generation for broad use in semiconductor, military, aerospace, satellite, medical, and communications applications.

## NC1000 Series Amplified Noise Modules

The NC1000 Series amplified noise modules produce AWGN as high as +13 dBm and have bandwidths up to 18 GHz. The high-power modules are designed to test noise immunity for Cable TV equipment, secure communication channels, and military jamming systems. The lower power modules, <= 0 dBm, are random jitter sources for many applications, including PCIexpress, Infiniband, and 10 GigE.

## NC3000 Series Calibrated Coaxial Noise Sources

The NC3000 Series calibrated coaxial noise (AWGN) sources are well suited for receiver testing, noise figure measurements, or applications that require broadband noise and fast switching times. Several models include output isolators and voltage regulators that provide excellent stability over varying temperature and voltage ranges.

## HSM Series RF Synthesizer Modules

The HSM Series of RF synthesizer modules utilize proprietary non-PLL technology to offer the ultimate mix of fast switching speed and low phase noise. The digital-analog hybrid design provides excellent phase noise performance and spurious response, which complement the phase coherent nature of these digital-analog hybrid signal sources. The compact form factor and multiple control interfaces make the module ideal for system integration to satisfy the demanding requirements of today's high-performance communications systems and integrated test systems.

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