

Modelithics Noise Parameter Measurements Through 50GHz

Modelithics offers precision noise parameter device measurement services, with capability of measuring to 50GHz, using noise parameter measurement equipment from Keysight Technologies and Maury Microwave.

- The Modelithics noise parameter device characterization service is now a faster and more robust measurement process, and is available to an extended frequency range (over legacy capabilities) from 250MHz up to 50GHz. Modelithics currently provides the PNAX/Maury solution for noise parameter device characterization to customers.
- Noise parameter measurements are important for characterization of HEMT devices and HEMT model validation.
- The PNA-X non-linear vector network analyzer from Keysight, and noise receiver module, switch box, tuner and power distribution hub from Maury Microwave, along with Modelithics in-house supporting equipment, produces smooth, accurate noise parameter data. The setup allows for two attenuation levels for best noise performance vs. device and system gain.

Keysight PNA-X
Maury Tuner
Maury Noise Receiver Module
Maury Switch Box
Maury Power Distribution Hub
Noise Source
Attenuator/Switch Driver
Power Supply
Bias Tee, Cables, Connectors, Probe Equipment



Solutions Partner



Keysight Technologies' PNA-X Series Nonlinear Vector Network Analyzer (NVNA)



Maury Microwave MT7553 Noise Receiver Module and MT7553N50 Switch Box



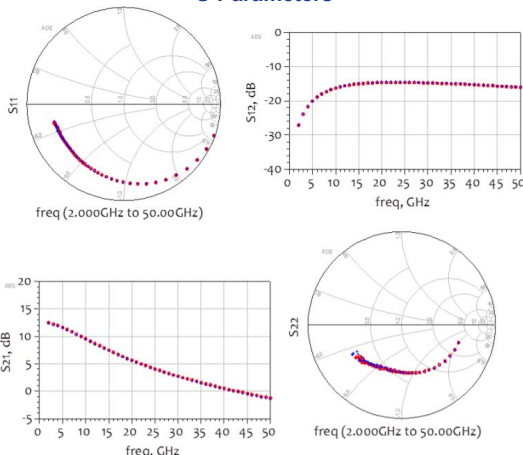
Modelithics Test Bench Example

Contact us today to learn more about our High Frequency Noise Parameter Measurement Services. Custom hardware and software solutions can be provided to ensure that all your specifications are addressed in the most time- and cost-efficient manner possible.

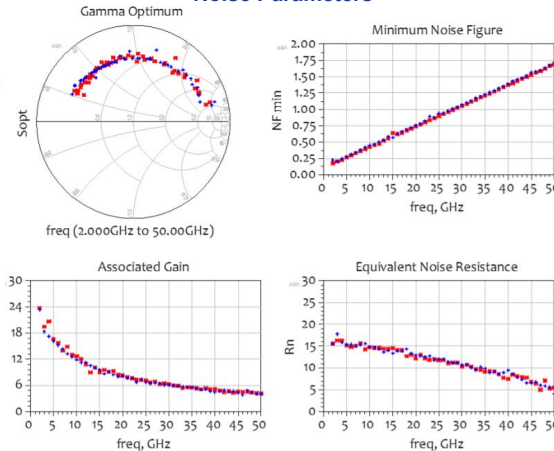
Contact Sales@Modelithics.com to request a budgetary quote.

Visit the Modelithics website to learn more about our [Characterization and Modeling Services.](#)

S-Parameters



Noise Parameters



Comparison of two samples of scattering and noise parameter data of a 4x50um GaN HEMT from 2 -50GHz using new Keysight/Maury Microwave PNA-X solution 50GHz measurement process. Left: S-parameters, Right: Noise Parameters

Also Check Out the Other Sides of Modelithics!

- [Modelithics COMPLETE Library](#)
- [mmWave & 5G Library](#)
- [Vendor Sponsored Models, Data, and Libraries](#)
- [Modelithics Vendor Partner \(MVP\) Program](#)
- [Test Fixtures and Accessories](#)