Modelithics®
Accelerating Your Design Success!

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Modelithics COMPLETE Library™ v26.4 Adds New GaN, Nonlinear Diode, and Microwave Global Models for Keysight ADS

Tampa, Florida (August 27, 2026) – Modelithics®, the industry leader in providing innovative and high-quality custom modeling and measurement services for RF, microwave, semiconductor and millimeter-wave electronic devices, is pleased to announce the release of Modelithics COMPLETE Library™ v26.4 for Keysight ADS. This release delivers a significant expansion of high-fidelity simulation content for RF, microwave, and high-speed electronic design engineers. In addition to many new models, it extends compatibility across multiple generations of Keysight ADS, including ADS 2024 through ADS 2027 on both Windows and Linux 64-bit platforms.

A major highlight of this release is the addition of 25 new nonlinear diode models from Modelithics Vendor Partner Microchip Technology, including PIN diode and varactor device families. Extracted from precision DC-IV, capacitance, and S-parameter measurements, these models capture nonlinear behavior across temperature, frequency, and RF power conditions. The release also includes an update to the MV3903 varactor model, improving high-frequency response for more accurate tuning and matching network simulations. Several new diode models support frequencies up to 110 GHz, delivering exceptional coverage for advanced communication and sensing applications.

Another major highlight of v26.4 are six new GaN HEMT transistor models sponsored by Modelithics Vendor Partner Guerilla RF. These nonlinear models were developed and validated against comprehensive DC-IV, S-parameter, and load-pull data. These new GaN models are ideal for designers developing high-linearity and high-power RF power amplifiers for infrastructure, defense, and wireless communication systems.

Version 26.4 also strengthens the Modelithics COMPLETE Library with 20 new Microwave Global Models™, representing entire families of capacitors and resistors from Kyocera-AVX, Cornell Dubilier, Murata, Knowles-Syfer, Tecdia, IMS, TTM Technologies, and Vishay. These additions include highly scalable models validated to frequencies as high as 150 GHz, providing designers with measurement-based accuracy for next-generation RF front-end, aerospace, defense, and high-speed communications applications. The release further expands the System Component Library with three new TTM Technologies coupler models, enabling accurate simulation of RF signal distribution architectures while preserving Modelithics' proven substrate-aware modeling capabilities. These additions complement the existing library of filters, attenuators, transformers, amplifiers, and other functional system blocks used throughout modern RF and microwave design workflows. The new passive and system amplifier content leverages Modelithics' advanced equivalent-circuit methodologies, including substrate and pad scalability, accurate effective series resistance representation, and higher-order resonant behavior to support first-pass design success.

Modelithics COMPLETE Library v26.4 is available now and is backward compatible with previous library releases while supporting Keysight ADS 2024 through ADS 2027 environments. Engineers can immediately leverage the new content to enhance design accuracy, improve correlation between simulation and measurement, and reduce development risk across a wide range of RF, microwave, millimeter-wave, and high-speed electronic applications.

About Modelithics, Inc.

Modelithics, Inc. (www.Modelithics.com) was formed in 2001 to address the industry-wide need for high-accuracy RF and microwave active and passive simulation models for use in Electronic Design Automation (EDA). Modelithics' premium product is the Modelithics® COMPLETE Library, containing highly scalable Microwave Global Models™, and advanced behavioral models for a multitude of commercially available passive component families, as well as non-linear diode models, non-linear transistor models, and system-level component models. Modelithics' services also address a wide range of custom RF and microwave measurement and modeling needs. Modelithics product offerings, which support multiple EDA software platforms, also include the Modelithics mmWave Library, Modelithics System Components Library™ the Modelithics COMPLETE+3D Library. Modelithics® is a registered trademark of Modelithics, Inc. Microwave Global Models™, and System Components Library are also trademarks of Modelithics, Inc. The Modelithics Vendor Partner (MVP) Program allows for collaboration and open communication during the development of advanced data sets and models for commercially available microwave components and devices, with flexible sponsorship and distribution arrangements for the resulting data and models. An example of such an arrangement is the Modelithics Qorvo GaN Library, a fully sponsored library distributed for free by Modelithics under the sponsorship of Qorvo®.

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