Modelithics®
Accelerating Your Design Success!

## Contacts:

***Modelithics, Inc.***
Angie Rogers
Vice President, Marketing & Sales
813.866.6335
sales@modelithics.com

## FOR IMMEDIATE RELEASE

**September 25, 2024**

# Now Available: Modelithics COMPLETE Library v24.5 for Keysight Advanced Design System

Tampa, Florida (September 25, 2024) – Modelithics® is pleased to announce the release of the latest version, v24.5, of the Modelithics COMPLETE Library™ for Keysight Technologies' Advanced Design System (ADS). This release of the Modelithics COMPLETE Library for Keysight ADS includes **20 new models and now represents 28,000 components from 75+ vendors.** The release includes compatibility with Keysight ADS 2025.

This release includes a new varactor non-linear diode model for MicroChip. This model is substrate scalable and is validated up to 67 GHz. Modelithics non-linear diode models cover varactor, SRD, Schottky and PIN diodes of a variety of package sizes. The equivalent circuit models are extracted from precision DC-IV, capacitance, and S-parameter measurements. The models also offer features such as substrate scaling, bias dependence, and temperature scaling, and are validated over frequencies up to 125GHz.

In addition, this release includes new Microwave Global Models™ for International Manufacturing Services (IMS) resistors for the NDX-0402WA, ND3-0402PA, and NDX-0505WA series, which are validated from 30-50 GHz. Models for four Murata capacitors families for GJM022, GQM033, GJM033 and GQM1555 as well as five Murata inductor series for LQP02HV, LQP02HQ, LQP02TN, LQP03HQ, LQW15AN- 80D and the Kyocera-AVX 520L and 530L capacitors series have been added in this release. Each of these models are all part value scalable and substrate scalable and validated from 50-67 GHz. In addition, new capacitor series have been included for Kemet and Syfer by Knowles, which are validated from 30-67 GHz.

Modelithics Microwave Global Models include many advanced model features including Part Value Scaling, Substrate & Pad Scaling, Orientation Selectable and more! These models can cover a full range of part values from a manufacturer component series within one model. The Microwave Global Models are also available within the Modelithics mmWave & 5G Library. All models within the mmWave & 5G Library are validated at a minimum of 30 GHz with some as high as 125 GHz.

Through the Modelithics Vendor Partner (MVP) program, FREE 90-day use of Modelithics models for Sponsoring MVPs, including IMS, Kyocera-AVX, Knowles and Kemet are available. For more information or to request a free use of the new models for Modelithics sponsored libraries, please visit www.modelithics.com/mvp/vsl.

To request a free trial, please visit the Modelithics website at www.Modelithics.com/MVP/ADS. For more information about this new release and further details on the new models available, please review the **v24.5 release notes**.



3802 Spectrum Blvd. Tampa, FL 33612 USA • www.Modelithics.com
E-mail:**sales@modelithics.com** • Phone: 888-359-6359 • Fax: 813-866-6334

***Over 23 Years of Precision Measurements and Modeling Excellence!***

**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, which includes the CLR Library™, containing measurement-based Microwave Global 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 & 5G Library, Modelithics System Components Library™ the Modelithics COMPLETE+3D Library. Modelithics® is a registered trademark of Modelithics, Inc. Microwave Global Models™, System Components Library™, and CLR 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®. Modelithics also offers a Standard and Custom Test Fixture and Accessory Product Line, including legacy parts from J Micro Technology for a family of thin film Alumina substrate components.



3802 Spectrum Blvd. Tampa, FL 33612 USA • www.Modelithics.com
E-mail:**sales@modelithics.com** • Phone: 888-359-6359 • Fax: 813-866-6334