Modelithics®
World's Best RF & Microwave Simulation Models

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Introducing the NEW Modelithics EXEMPLAR Library for MATLAB®

Tampa, Florida (April 23, 2024) – Modelithics®, the leading independent provider of accurate RF/microwave models for multiple EDA simulation software tools, is pleased to launch the **NEW Modelithics EXEMPLAR Library for MATLAB®.**

The release of the new Modelithics EXEMPLAR Library for MATLAB includes **almost 50 Microwave Global Models™** representing **nearly 3,500 components** for many of today's leading component suppliers, including Amotech, Coilcraft, Johanson, Kemet, Kyocera-AVX, Murata, Passive Plus, Presidio, and Vishay. The EXEMPLAR Library is designed to include models that run many example tutorial projects on the Modelithics website.

The Modelithics EXEMPLAR Library for MATLAB adds to Modelithics' vast collection of highly accurate circuit simulation models. It expands the available resources to enable today's design engineers to go from concept to product faster and more efficiently in MATLAB. Modelithics models are to be utilized within RF Toolbox™, a MATLAB add-on from MathWorks, to build networks of RF components, such as filters, transmission lines, matching networks, amplifiers, and mixers. RF Toolbox provides functions, objects, and apps for designing, modeling, analyzing, and visualizing networks of radio frequency (RF) components. RF designers can use RF Toolbox and Modelithics EXEMPLAR library to develop wireless communications, radar, and signal integrity applications.

The Microwave Global Models for MATLAB include Modelithics' advanced model features, including part value scalability, solder pad-size scaling, de-embedding, and substrate scaling. The part-value scalability of Microwave Global Models makes them ideal for tuning and optimization. Therefore, it is not necessary to manually substitute individual models during a design process. Modelithics Microwave Global Models also scale substrate characteristics, providing designers with a solution that extends beyond traditional solutions, like S-parameter files. While an S-parameter file only contains device measurements performed on one specific substrate, Modelithics microwave global models are valid over a continuous range of substrate properties determined by the substrates used in the model extraction process.

For more information regarding the new Modelithics EXEMPLAR Library for MATLAB, please review the v24.0 release notes. To request a free trial, visit www.Modelithics.com/MVP/MATLAB. The Modelithics EXEMPLAR Library is also free for qualified educational institutions for one year of renewable access through the Modelithics University Program. For more details on the Modelithics University Program, visit www.modelithics.com/home/university.

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Over 22 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 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 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 and the Modelithics MACOM GaN Library. Both of these vendor specific libraries are distributed for free by Modelithics under sponsorship of Qorvo® and MACOM, respectively®. Modelithics also offers a Standard & Custom Test Fixture and Accessory Product Line, including legacy parts from J Micro Technology for a family of thin film Alumina substrate components.

About MathWorks

MathWorks is the leading developer of mathematical computing software. MATLAB, the language of engineers and scientists, is a programming environment for algorithm development, data analysis, visualization, and numeric computation. Simulink is a block diagram environment for simulation and Model-Based Design of multidomain and embedded engineering systems. Engineers and scientists worldwide rely on these products to accelerate the pace of discovery, innovation, and development in automotive, aerospace, communications, electronics, industrial automation, and other industries. MATLAB and Simulink are fundamental teaching and research tools in the world's top universities and learning institutions. Founded in 1984, MathWorks employs more than 6,000 people in 34 offices around the world, with headquarters in Natick, Massachusetts, USA. For additional information, visit mathworks.com. *MATLAB and Simulink are registered trademarks of The MathWorks, Inc. See mathworks.com/trademarks for a list of additional trademarks. Other product or brand names may be trademarks or registered trademarks of their respective holders.*

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