Modelithics®
Accelerating Your Design Success!

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Launching Models for Active Devices with the Release of the Modelithics COMPLETE+3D Library v24.3 for Ansys HFSS

Tampa, Florida (August 29, 2024) – Modelithics® is excited to announce the release of the Modelithics COMPLETE+3D Library v24.3 for Ansys HFSS™. The release is compatible with Ansys HFSS 2024 R2 and is backward compatible with previous Modelithics library releases.

Included are new **models for non-linear varactor diodes from Infineon and MACOM**. In addition, Modelithics is also introducing 3D Brick EM Models™ for resistors. Modelithics v24.3 for HFSS includes 4 3D Brick EM Models for KOA and Vishay resistors as well as 1 Kemet C0201 capacitor. These components coupled with their circuit simulation counterparts represent almost 2,300 components. The Kemet capacitor is validated to 50 GHz while the Vishay resistor is validated through 60 GHz. 3D Brick EM Models combine the best of both full-wave EM and circuit simulation techniques and now are for use with selected resistor as well as capacitor families.

Also available within this release are approximately 20 new Microwave Global Models™ for capacitor, inductor and resistor families from Amotech, Johanson Technologies, Kemet, Kyocera-AVX, Murata, Passive Plus and TDK. The Microwave Global equivalent circuit models include **Advanced Model Features** such as Part-Value Scaling, Substrate Scaling, Pad Scaling, Representation of High-Order Resonant Effects, and Accurate Effective Series Resistance. To learn more about Modelithics Advanced Model Features, visit: www.modelithics.com/Model/AdvancedModelFeatures. The Modelithics COMPLETE+3D Library for Ansys HFSS now represents **over 26,000 components**.

Through the Modelithics Vendor Partner (MVP) Program, FREE 90-day use of Modelithics models for Amotech, Johanson Technologies, Kemet, MACOM, Passive Plus and Vishay components are available. For more information or to request free use of the new models as well as other available Modelithics MVP models, please visit www.Modelithics.com/MVP/vsl. For more information about this new release and further details on the new models available, please review the v24.3 release notes. To request a free trial, please visit the Modelithics website at www.modelithics.com/mvp/HFSS.

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.

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