Modelithics®
World's Best RF & Microwave Simulation Models

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Modelithics Welcomes Knowles as Sponsoring MVP

Tampa, Florida (March 28, 2024) – Modelithics®, Inc., a uniquely positioned source of scalable and highly accurate RF/microwave simulation models, is pleased to welcome Knowles Precision Devices, a segment of Knowles Corporation (NYSE:KN), into the Modelithics Vendor Partner (MVP) Program at the Sponsoring level. Knowles is a leading provider of a wide range of highly engineered capacitors and other components (covering microwave to millimeter-wave frequencies) intended for use in critical applications in military, medical, electric vehicle, industrial, and new energy market segments.

Through the Modelithics Vendor Partner (MVP) program, Knowles and Modelithics are collaborating to accelerate the product development process for today's design engineers by providing world-class data along with highly accurate and scalable models. A collection of models for Knowles capacitors is available in the Modelithics COMPLETE Library™, including a Microwave Global Model™ for the Knowles Milli-Cap® surface-mount broadband capacitor. This model is validated up to 40 GHz and includes Modelithics advanced model features such as part-value, substrate, and pad-dimension scalability. Designers can specify the substrate and solder-pad dimensions (or completely de-embed the solder pads for use in EM/circuit co-simulations). Part-value scalability enables Microwave Global Models to be ideal for tuning and optimization. Furthermore, Microwave Global Models compensate for real-world parasitic effects, enabling first-pass success for PCB-based designs.

In addition, the Modelithics COMPLETE+3D Library for Ansys® HFSS™ includes 3D EM geometry models for Knowles capacitors. The integration of Modelithics' highly accurate and scalable parasitic models into the 3D design environment allows for a seamless EM/circuit co-simulation process, resulting in very accurate model-to-measurement agreements and fewer design iterations.

As a Sponsoring MVP, Knowles is sponsoring **FREE 90-day use** of Modelithics models for Knowles components. Visit www.Modelithics.com/MVP/Knowles for more information or to request free use of the Microwave Global Models and 3D models for Knowles capacitors.

For those interested in long-term use of the Modelithics COMPLETE Library (available for Keysight Technologies' PathWave Advanced Design System, Cadence® AWR Design Environment®, and other EDA software tools) or Modelithics COMPLETE+3D Library, please visit: www.modelithics.com/model or contact sales@modelithics.com.

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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 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.

About Knowles Corporation

Knowles Corporation (NYSE: KN) is a market leader and global provider of high performance capacitors and radio frequency ("RF") filtering products, balanced armature speakers, advanced micro-acoustic microphones, and audio solutions serving the medtech, defense, electric vehicle, industrial, communications, consumer electronics markets. Our focus on the customer, combined with unique technology, proprietary manufacturing techniques, and global operational expertise, enables us to deliver innovative solutions across multiple applications. Knowles, founded in 1946 and headquartered in Itasca, Illinois, has approximately 7,100 employees at facilities located in 14 countries around the world. For more information, visit knowles.com.

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