



**World's Best RF & Microwave Simulation Models**

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## **FOR IMMEDIATE RELEASE**

**April 1, 2016**

### **Announcing The Modelithics COMPLETE Library v16.0 for Keysight Technologies' Advanced Design System**

### **Compatibility with Keysight ADS Automatic EM/Circuit Co-Simulation Layout!**

Tampa, Florida (April 1, 2016) – Modelithics, Inc., the industry leader in simulation models for RF, microwave, and millimeter-wave devices, has just released a new version of The Modelithics<sup>®</sup> COMPLETE Library, version 16.0, formatted for use with [Keysight EEs of EDA Advanced Design System \(ADS\) simulation software](#) from Keysight Technologies. With this release, which follows version 12.0, the version number now corresponds with the current year.

The Modelithics COMPLETE Library v16.0 adds **56 NEW MODELS** to the already extensive collection of powerful, advanced-feature simulation models. Passive component Microwave Global Models™ that have been added include AVX and ATC capacitor, inductor and resistor models, Coilcraft and Würth Elektronik inductor models, Vishay and TDK capacitor models, a Piconics conical inductor model, and ferrite bead models from Murata and Würth Elektronik. New non-linear active device models are available for CEL (NEC) and Qorvo (formerly RFMD) transistors. System-level component models have been added for ATC, AVX, and API Inmet attenuators, AVX couplers and diplexers, and new package models from Barry Industries and RJR Polymers. Single substrate S-parameter models are also now available for three IPDiA broadband capacitors. [See the release notes for more information.](#)

An important new feature of Modelithics models in version 16.0 is support for the ADS feature Automatic EM/Circuit Co-simulation. This feature adds considerable simplicity to the EM co-simulation process. (More information on this feature is available on YouTube at <https://www.youtube.com/watch?v=GwTlrmKC3y8> and <https://www.youtube.com/watch?v=BQUfZNanNFk>). New convenience and control features have also been added, such as the license warning environment variable that allows users to customize or disable the expiring license pop-up window. To increase simulator efficiency, the models are now loaded only when used in a schematic. Within the schematic, Modelithics models (when pads are included) will use the MSUB-defined layers when generating the layout. Finally, a new Sim\_mode parameter option 3 has been added to most CLR models, which removes both pad *and* substrate dependencies, but leaves ESR, ESL and other internal component parasitics in the simulation.

Modelithics offers a FREE evaluation library, Modelithics SELECT+, with a sampling of the models, and can be downloaded from the Modelithics website: [www.Modelithics.com](http://www.Modelithics.com). A more

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comprehensive trial library, Modelithics EXEMPLAR, is also available by request and represents a subset of models in the Modelithics COMPLETE Library, containing all models needed to run the many example projects found on the Modelithics website and as part of the standard installation of the Modelithics COMPLETE Library. EXEMPLAR is also available for extended university use. For more information, please email [sales@modelithics.com](mailto:sales@modelithics.com).

#### **About Modelithics, Inc.**

Modelithics, Inc. ([www.Modelithics.com](http://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, the *NLD Library*™ (non-linear diode models) the *NLT Library*™ (non-linear transistor models), and the *SLC Library*™ (system level component models). Modelithics' services also address a wide range of custom RF and microwave measurement and modeling needs. Modelithics® is a registered trademark of Modelithics, Inc. *Microwave Global Models*™, *CLR Library*™, *NLD Library*™, *NLT Library*™, and the *SLC Library*™ are also trademarks of Modelithics, Inc. The Modelithics Vendor Partner 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.