



World's Best RF & Microwave Simulation Models

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FOR IMMEDIATE RELEASE

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Modelithics® Releases the COMPLETE Library™ v18.1 and the NEW mmWave & 5G Library for NI AWR Design Environment® Software™

TAMPA, Florida (June 4, 2018) –**Modelithics has just released the newest version, version 18.1, of the COMPLETE Library for use with NI AWR software. This update includes 47 new models, and several new model features. With this release, the Modelithics mmWave & 5G Library, a new product introduced in 2018, is now available for the NI AWR Design Environment® platform.**

Designers will be pleased with the new release of the [Modelithics COMPLETE Library for NI AWR Design Environment](#), specifically Microwave Office circuit design software. The addition of 47 new models significantly increases the library content, with the library now representing over 16,000 components. New Microwave Global Models™ for passive components are available for ATC, AVX, Murata, Passive Plus, Presidio, Samsung and TDK capacitors, Coilcraft, Murata, TDK and Würth Elektronik inductors, and an ATC resistor series. New non-linear active device models are available for a Skyworks Schottky diode, a CEL transistor and a PIN limiter from MACOM. Modelithics' first substrate scalable connector model for a Gigalane flange mount SMA connector is also included. New S-parameter (file-based) models for Vanguard Electronics transformers and S-parameter-plus-noise models for Guerrilla RF LNAs are new in this version as well.

Four significant new features have been incorporated into the v18.1 release. A new shunt mode option has been added to the Pad_In_Model feature for passive RCL component models (CLR Library), which simplifies setup, simulation and layout of designs with parts mounted in shunt on a microstrip line. Dynamic layouts, previously only available in CLR models, are now implemented in the non-linear diode models (NLD library). Models for obsoleted parts have always been kept within each library release to maintain functionality of old projects, however the parts were not included in the Element Browser. Obsolete parts can now be found in the Modelithics Library element tree in an obsoleted part section. Finally, the Modelithics library now contains an element map that allow ADS schematics with Modelithics models to be converted and imported into AWR using the IFF format. The [release notes](#) contain more information about these new features.

A second new product offering has been released along with the COMPLETE Library. The [Modelithics mmWave & 5G library](#), first introduced earlier this year in a different format, is now available



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for use with NI AWR software. All models in the mmWave & 5G Library are validated to at least 30 GHz, with some validated as high as 125 GHz! This collection has been designed for the quickly growing area of wireless design within the recently approved mmWave 5G frequencies.

For more information about this new release or to request a free trial, please visit the Modelithics website www.Modelithics.com, or contact us at sales@modelithics.com.



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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 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 (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 sponsorship of Qorvo®.