

## *News Release*

### **Contact:**

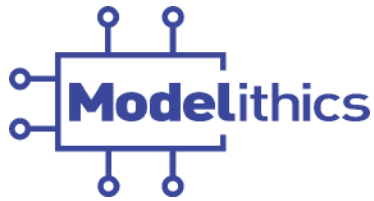
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## **Modelithics Releases High-Accuracy Non-Linear Diode Library for Applied Wave Research Microwave Office**

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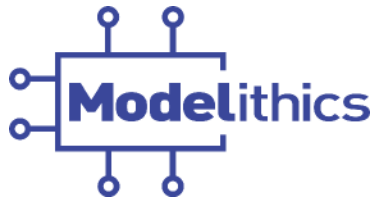
Modelithics, Inc. ([www.modelithics.com](http://www.modelithics.com)) has released a powerful and feature-rich NLD Library™ (Non-Linear Diode) for Applied Wave Research Microwave Office, with a strong collection of well-documented models for improved microwave design simulation. The library consists of models for Schottky, varactor and PIN diodes from leading diode manufacturers like Infineon, MA-Com, Microsemi, On-Semi and Toshiba. Models for other diodes, including step recovery diode (SRD) models, are available through special ordering. Unique features include substrate scaling and temperature



dependence. Substrate scalable diode models are valid over a continuous range of substrate thickness and dielectric constant. Temperature dependent models include applicability over a wide range of operating temperatures. The models, which now fully integrate with AWR MWO, incorporate bias-dependent factors to describe non-linear I-V and C-V characteristics. They also predict harmonics and reflect variations with RF power, validated using gain compression and harmonic measurements.

Customers who purchase Modelithics Platinum Maintenance receive free updates, including all new diodes added to the library over the next year. The MWO NLD library complements Modelithics' extensive CLR Library™ of surface-mount capacitor, inductor, and resistor models already available for Microwave Office. These models help designers meet stringent schedule and technical requirements for PCB and multi-layer board designs. As an example, Dr. Steve Maas of Nonlinear Technologies, Inc. had this to say about his experience with Modelithics Library models for improved MWO based design:

*"I recently created a 1.85-GHz power-amplifier load network with the chip capacitor/inductor library, and nailed it perfectly. Didn't even have to tweak the capacitor values--got >60% PAE right out of the box. I've done a couple more recently, and those were either right on or needed only a small tweak. So, it's pretty clear that depending on models from specialists, instead of the usual*



*practice of giving the modeling job to the guy in the company you hate and want to persecute, is the way to get really good models. Amazing how science works-- you do things right, and they actually work!"*

For further information and to request a free trial of the Modelithics NLD Library or CLR Library or AWR, contact Modelithics at [Sales@Modelithics.com](mailto:Sales@Modelithics.com), or click on the free trial link you'll find at:

<http://www.modelithics.com/mvp/AWR/>

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### **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). Current products include the *CLR Library™*, which contains measurement-based *Global Models™* for a multitude of commercially-available passive components, the *NLD Library™* (non-linear diode models) and the *NLT Library™* (non-Linear transistor models). Modelithics' services also address a wide range of custom RF and microwave measurement and modeling needs.

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