April 2021
See How Modelithics is Making Waves Lately!

Announcements

Modelithics 20th Anniversary

As of March 1, 2021 Modelithics, is celebrating 20 years of establishment. We are grateful to all our customers and partners and our current and alumni team members who trusted in us to help them achieve their design goals, improve their own customer support and in the case of our team members, grow their careers in a dynamic and challenging environment.

The Modelithics Complete+3D Library

Version 21.1 Now Available for Ansys HFSS™

Modelithics is pleased to announce the release of version 21.1 of the COMPLETE+3D Library for use with Ansys HFSS. Version 21.1 adds seven new part value-, pad-, and substrate scalable models and four new full wave 3D EM models.

Press Release  Release Notes  Library Brochure

Request a FREE Trial of the Modelithics COMPLETE+3D Library

Modelithics Releases the COMPLETE Library™ v21.0 for Keysight Technologies’ PathWave Advanced Design System

Modelithics announces the release of the newest version, version 21.0, of the Modelithics COMPLETE Library for use with Keysight Technologies’ PathWave Advanced Design System (ADS) software platform. The new release includes compatibility with PathWave ADS 2021 Update 2 as well as 10 new models representing over 220 components.

Press Release  Release Notes  Library Brochure
**What’s New With Us and Our Partners**

**Modellithics and International Manufacturing Services® (IMS) Partner to Offer New Circuit Simulation Models Up to 30GHz**

Modellithics and International Manufacturing Services (IMS) have completed the development of 2 (two) models for the IMS A0805 and IMS1141 attenuator families. These models are now available within the Modellithics COMPLETE Library as well as the Modellithics mmWave & 5G Library™. The models are part-value, pad and substrate scalable and are validated up to 30 GHz.

[Press Release] [Library Brochure]

**Modellithics Releases the Qorvo® GaN Library v21.4.5**

Modellithics is pleased to announce the release of version 21.4.5 of the Modellithics. Version 21.4.5 adds a new model for the Qorvo QPD1028L a 750W (P3dB) discrete GaN on SiC HEMT. The Angelov-based large-signal model includes an advanced model feature for enabling intrinsic I-V sensing and is valid for Class AB operations.

[Release Notes] [Library Brochure]

**Modellithics and TDK® Partner to Offer 79 New 3D EM Inductor Models**

Modellithics announces the release of 79 new 3D geometry-defined models for the TDK MHQ1005P 0402-size inductor series to the Modellithics COMPLETE+3D Library for full-wave electromagnetic analysis using Ansys HFSS. These models span inductance values ranging from 0.7 to 130 nH, and are validated through multi-substrate S-parameter measurements through 20 GHz.

[Press Release] [Library Brochure]

**Modellithics and Passive Plus® Partner to Offer New Circuit and 3D Resistor Models Validated to 60 GHz**

Modellithics announces the release of new models for the Passive Plus R35-1209BB and R35-2010BB flip-chip resistor products. New Microwave Global Models™ for both resistor series are now available within the Modellithics COMPLETE Library as well as the Modellithics mmWave & 5G Library. In addition, new 3D geometry models for the resistors are now available within the Modellithics COMPLETE+3D Library for Ansys HFSS.

[Press Release] [Library Brochure]
Modelithics is now offering Probe-Point™ adapter substrates formerly supplied by Jmicro Technology. These Alumina substrates adapt the benefits of coplanar waveguide RF wafer probe test methods testing microstrip formatted chips and circuits from DC through 70 GHz!

NOW OFFERING TEST FIXTURES & ACCESSORIES!

Request a Quote

See What Our Customers Are Saying About Us

Testimonial: “I’ve been using your custom and CLR models for almost 10 years now, and I find them indispensable for accurate component modeling. The integration with AWR Microwave Office is excellent, and support has always been quick and spot-on. Our whole Microwave Design group appreciates the value Modelithics models bring to our circuit designs.” Senior RF/Microwave Design Engineer, US Defense Contractor

Literature & Presentations

Published Article: A Case Study in Successful First-Pass Filter Design

This article presents a case study of a bandpass filter that Applied Radar designed with first-pass success. Both Ansys Nuhertz Filter Design software and the Cadence® AWR Design Environment® were used for the design process. In addition, Modelithics passive-component models were utilized to simulate all the lumped components in the design.

Deeper Dive Video: Discrete Part-Value Optimization with AWR and Modelithics Models

In this video, we will demonstrate how to perform discrete part-value optimizations in the Cadence AWR Design Environment with Modelithics models.

Application Note #74: Utilizing Substrate Scalability of Modelithics Models in Keysight Genesys

In this application note, we will focus specifically on the substrate scalability feature, which is included within nearly all passive-component models. Substrate scalability is not limited to passive-component models, as some active-component models include this capability as well.

View All Application Notes

View the full Modelithics Video Collection

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New Additional Literature and Presentations:

- Application Note #72: A Filter Design Case Study with Nuhertz, Cadence AWR Design Environment, and Modelithics Models
- Application Note #73: Filter Design Flow in Cadence AWR Design Environment with Substrate Scalable Models
- (UPDATE) Application Note #51: AXIEM Co-Simulation with Modelithics Models
- Published Article: A Case Study in Successful First-Pass Filter Design

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