

Precision Measurements and Models You Trust

What Designers are saying:

I was pleased that your Noise parameters were dead on. They were as far as I could tell just right. They matched our model but it took you a day and it took us a month.

PhD Sr. Principal Engineer, Major US Defense Contractor



New Product Release - coming soon!
Modelithics COMPLETE Library for Keysight Advanced Design System v12.0

Announcing the newest version of Modelithics COMPLETE Library for Keysight ADS. Version 12.0 contains over 45 new models and features including:



New Models & Features

- AVX capacitors, couplers and diplexers
- Passive Plus, Murata, and TDK capacitors and inductors
- Mini-Circuits amplifiers (X-Parameters*)
- Skyworks varactor diodes
- Freescale MOSFETs
- Compatibility with ADS 2015
- Discrete Optimization for CLR models
- New floating license software

For more information see the v12.0 [Release Notes](#) (available 3/31)



**IEEE Wireless and Microwave Technology Conference
WAMICON 2015**
April 13th to 15th 2015
Hilton Cocoa Beach Oceanfront - Cocoa Beach, Florida

Four papers from Modelithics have been accepted for presentation at this year's WAMICON. The topics include

- NI AWR Design Environment/Axiem EM Co-simulation with Modelithics Models, *by I. Delgado, S. Skidmore, L. Dunleavy*
- Applications of System Level Component Models for RF Front End Receiver Design and Optimization, *by L. Dunleavy (invited paper)*
- Conical Inductor Modeling Using Equivalent Circuit Technique, *by H. Patel, H. Morales, L. Dunleavy, B. Goodhue*
- An Evaluation of Static Single-tone X-parameter Models in Time-varying Envelope Domain simulations of Intermodulation Distortion Performance, *by K. Kellogg, J. Liu, L. Dunleavy*



VISIT MODELITHICS AT IMS2015—Booth 950
May 17-22, 2015 - Phoenix, AZ

The first ever [RF BOOT CAMP](#) program to be held at IMS!

Modelithics co-founder Dr. Larry Dunleavy will present 3 tutorials during the RF Boot Camp with training on matching fundamentals, GaN PA design basics, and advanced component models for system design.

Modelithics MicroApps Presentations:

- PA Circuit Level Validation of a New Non-Linear GaN Model Library (Tuesday, May 19, 12:45pm)
L. Dunleavy, H. Morales (presenter), S. Skidmore / Modelithics R. Martin, K. Tran / Qorvo
- Flexible and Scalable Models for Microwave System Design Success (Thursday, May 21, 9:05am)
K. Kellogg, J. Liu, H. Patel, H. Morales, L. Dunleavy (presenter)

Press Releases:

[Modelithics Releases the Latest \(v1.5\) Qorvo \(formerly TriQuint\) GaN RF Simulation Model Library](#)



[AVX Expands Partnership with Modelithics, Inc. and Offers Complimentary Licenses](#)

[Modelithics Expands TACTRON Elektronik Sales Region to Include Italy and France](#)



Announcements:

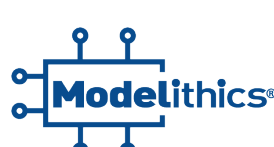
[Modelithics White Paper Explores Benefits of Circuit-based Models Using NI/AWR Design Environment](#)



[High-Efficiency PA Design Success Story Using NI/AWR Software and Modelithics Models](#)

Current Promotions:

PROMOTION EXTENDED!
FREE Access to Modelithics COMPLETE Library for Keysight Genesys for Six Months*



Modelithics and Keysight have extended this promotion, available for customers that are new to Modelithics, through June 30, 2015. To receive the FREE library, please fill out the [quick survey](#) about what types of models and features are of most interest to designers. *See [our updated invitation for details, plus a special offer for the Modelithics COMPLETE Library for Genesys](#).

Ask Us About Ongoing Special Offers:

- Combined Special Order modeling project and Modelithics Library purchase Offer: Ask about receiving a significant model development discount or even a free Modelithics Library!
- Modelithics Pre-Release Library: new models in the development stage that are available at a discount and with shorter delivery times.

Contact sales@Modelithics.com for more information.

New App Notes and Papers:

AN050—[Good, Better And Best: Techniques For Achieving First Pass Success In Lumped Element PCB -based Filter Designs](#)

[Related ADS Example Project](#)

[Related Published Article](#)

[Understanding S-Parameter Vs Equivalent Circuit-based Models For RLC Component Simulations With NI/AWR Microwave Office](#)

By: Modelithics

* [Related NI/AWR Design Environment Example Project](#)

[LTCC Filter Modeling Using EM And Equivalent Circuit Techniques](#)

by: S. Skidmore, H. Patel, I. Delgado, L. Dunleavy and T. Weller

[Temperature and Bias Dependent Ferrite Bead Inductor Modeling](#)

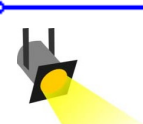
by: H. Morales, R. Connick, T. Weller, and L. Dunleavy

Presentations:

[Qorvo \(TriQuint\) GaN Workshop \(NI/AWR Design Environment\)](#)



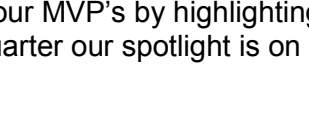
[Qorvo \(TriQuint GaN Overview \(Keysight ADS\)\)](#)



Modelithics Vendor Partner Spotlight

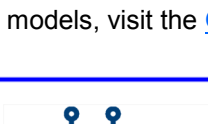


Modelithics teams with many companies to develop simulation models for the benefit of our mutual customers. We highly value these relationships and would like to thank our MVP's by highlighting one of our MVP's in each newsletter. This quarter our spotlight is on Modelithics Vendor Partner, Qorvo!



Qorvo is a leading provider of core technologies and RF solutions for mobile, infrastructure and aerospace/defense applications. Qorvo was formed following the merger of RFMD and TriQuint, and has more than 6,000 global employees dedicated to delivering solutions for everything that connects the world. Qorvo has the industry's broadest portfolio of products and core technologies; world-class ISO9001-, ISO 14001- and ISO/TS 16949-certified manufacturing facilities; and is a DoD-accredited 'Trusted Source' (Category 1A) for GaAs, GaN and BAW products and services.

Qorvo and Modelithics have collaborated through the Modelithics Vendor Partner (MVP) program to develop cutting edge high-accuracy non-linear simulation models for popular Qorvo GaN transistors. For a listing of available models in the Modelithics Qorvo GaN library, or to request free access to this powerful set of models, visit the [Qorvo MVP page](#) on the Modelithics website.



Browse our [Modelithics Vendor Partner](#) pages to find:

- List of available models for a specific vendor
- FREE models
- FREE S-Parameter downloads
- Literature related to specific vendors

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Questions or comments? E-mail us at support@modelithics.com or call 888.359.6359

www.Modelithics.com

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