

What Designers are saying:

"My small firm designs MMIC's for major contractors. In recent years to save costs, contract times decreased 25%. As a result, MMIC designs must achieve production readiness on the first iteration. We shifted from foundry models to Modelithics models and achieved four production-ready first-pass successes in a row. One first pass PA, operating from RF to W band, measured-to-modeled, fit gain within one half dB, power within one half dB and achieved a very competitive PAE over that band. In one LNA, the measured to modeled NF and gain lines were so close, the client thought we forgot to add the measured traces."

David Bever— Aurora Microwave

What's New

- [New! Modelithics Models Supported in Cadence—Demo Available!](#)
- [Four New Library Releases Coming Soon](#)
- [EuMW 2017—Presentation by Dr. Larry Dunleavy](#)
- [Modelithics Exhibiting at CSICS in Miami](#)
- [Announcements: New Models for Vanguard Electronics and Guerrilla RF Devices, and Qorvo GaN Library v17.2.5](#)
- [Papers/Presentations/Videos: Thermal Modeling, ADS Example Project Collection, First Pass Success with Modelithics Models](#)
- [Current Promotions: Special Order Modeling, Pre-Release Models](#)
- [Spotlight MVP: Mini-Circuits](#)

Now Available!

cadence®

Modelithics SELECT+ Library for Cadence
A FREE trial library for pre-release evaluation of the new Modelithics Library support for Cadence
Expanded model library coming soon!

FREE TRIAL

[Click here to download the FREE trial of the Modelithics SELECT+ Library for Cadence](#)

(Click on Cadence option under "Free Model Downloads")

Coming Soon!

Watch for These New Product Releases - Planned for Q4 2017!

- ◆ Modelithics COMPLETE Library for **Keysight Genesys**
- ◆ Modelithics CLR Library for **ANSYS HFSS**—Compatible with HFSS v18
- ◆ Modelithics COMPLETE Library for **Keysight ADS**—Compatible with ADS v2017!
- ◆ Modelithics CLR Library for **Sonnet Suites**



EUROPEAN MICROWAVE WEEK
NÜRNBERG CONVENTION CENTER
NÜRNBERG, GERMANY
8TH-13TH OCTOBER 2017
www.eumweek.com

EuMW 2017
Modelithics Co-Founder and CEO
Dr. Larry Dunleavy to present
at "Startups in Microwaves"

["Having an Impact: The Evolving Story of a University-Spinout Microwave Company"](#)

Tuesday, October 10, 8:30-10:10am
Nürnberg Convention Center - Room Prag



Modelithics Exhibiting at CSICS:
2017 IEEE Compound Semiconductor IC Symposium
October 22-25, 2017—Miami, FL

Come see the latest Modelithics models to offer in device characterization and modeling, including:

- ◆ GaN modeling and custom transistor modeling
- ◆ Cadence simulator support
- ◆ Power amplifier design tools and examples
- ◆ Silicon HBT and CMOS characterization and modeling

[Stop by our booth #209!](#)

Announcements:



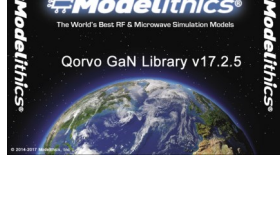
VANGUARD ELECTRONICS

High Reliability Inductors & Transformers

[Modelithics® Adds New S-Parameter Models for Vanguard Electronics Inductors and Transformers](#)



[Modelithics® Welcomes Guerrilla RF as New MVP and Introduces S-Parameter and Noise Models for Guerrilla RF Broadband LNAs](#)

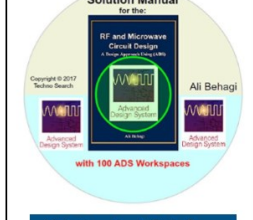


[The Modelithics Qorvo GaN Library v17.2.5 is now Available, with 73 Models for Qorvo GaN Packaged and Die Transistor Devices](#)

*New version numbering and licensing

Papers/Presentations/Videos:

Presentation: [Compact Thermal Modeling of GaN HEMT Devices for Pulsed and CW Applications](#)—Presented at IEEE Compound Semiconductor IC Symposium, 2016



Book/CD-ROM: [Solution Manual for RF and Microwave Circuit Design examples with 100 ADS Workspaces](#), by Ali Behagii, Senior Member of IEEE and MTT-S

—Featuring **100 ADS example workspaces, including multiple examples with Modelithics models.**

Articles: Featured in High Frequency Electronics: **Using Component Models to Achieve First Pass Success—A Transmitter Case Study**



- ◆ [Part 1: Harmonic Filter Design](#) (August 2017)

- ◆ [Part 2: Power Amplifier Design](#) (September 2017)

Current Promotions:

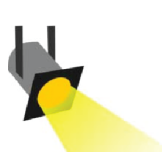
MVP Complementary Libraries

Many of our Modelithics Vendor Partners (MVP's) are sponsoring FREE TRIALS of Modelithics models available for their components. See the full list of [Vendor Sponsored Libraries](#). Click on the individual company links to request the complementary model library use.



Ask Us About Ongoing Special Offers:

- Combined Special Order modeling project and Modelithics Library purchase discount offer. Certain projects qualify for 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.



MVP Spotlight

Modelithics® Vendor Partner

Mini-Circuits®

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 in each newsletter. This quarter our spotlight is on SPONSORING Modelithics Vendor Partner, **Mini-Circuits!**

Mini-Circuits is the worlds largest manufacturer of mixers, and offers a diversified product line providing signal processing solutions for communications, wireless and cellular, medical, test instrumentation, satellite links, receivers, PC assemblies, computers, digital and analog acquisition, military, UHF/VHF transmitters, telephony, cable/TV broadcasting, aircraft and aerospace, and radar.

Through the Sponsoring Modelithics Vendor Partner (MVP) program, Mini-Circuits and Modelithics have collaborated to develop and promote advanced scalable high frequency simulation models for Mini-Circuits components, including amplifiers, attenuators and filters.

As a Sponsoring MVP, Mini-Circuits is currently sponsoring **free downloads** of all available Modelithics-Mini-Circuits component models for Keysight ADS. [Visit the Mini-Circuits MVP page on the Modelithics website for more information and to access the models.](#)

Contact sales@Modelithics.com for details.

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