Q2 Newsletter 2014

Modelithics®

> **What Designers are saying:**
>
> *"Your team is always on my list when I think of quality measurements and models."*
>
> Mike Lyons, Senior MMIC Design Engineer—Anokiwave

IMS 2014 - SUCCESS!

A Special Thanks...

Modelithics co-founders Larry Dunleavy and Tom Weller, also General Chair and Vice Chair of IMS2014, extend tremendous thanks to all involved in the planning and operation of the show. Between the outstanding steering committee, an exceptional tradeshow management company, accommodating local groups and businesses, and the incredible RF and microwave community, the show in Tampa was a great success!

IMS 2014 WRAP-UP:

Project Connect

20 students participated in Project Connect, a special opportunity for under-represented groups at the undergraduate level in science/ engineering/technology/mathematics fields. Participants were able to visit the exhibition and attend special activities throughout the week, such as panel sessions that included current graduate students from schools across the U.S., professors in the wireless/microwave field, and leaders from industry and government.

STEM Program

Over 70 high-school and middle-school students participated in the in **S**cience, **T**echnology, **E**ngineering, and **M**ath (STEM) Program at IMS2014. Activities included a scavenger hunt in the exhibition hall, educational presentations by participating companies to give students a glance into the wireless and microwave engineering field, and joining conference attendees at the closing ceremony with keynote speaker Kyle Maynard...No Excuses! See a video of some STEM students here.

Modelithics "Need for Speed" Contest at IMS

Thank you to everyone who participated in the "Need for Speed" race at the Modelithics booth. Congratulations to the winners!:

1st Place—iPad Mini:
  Jonathan Harris, Analog Devices
2nd Place—Fast and Furious 6-episode Blu-Ray set
  Michael Ulrich, AVX
3rd Place—1TB USB hard drive
  Rick Nguyen, SSL
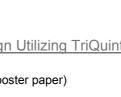
The winners also received free model library software from Modelithics. If you feel the need for design speed, contact Modelithics!

Modelithics Co-founder survives 'Hot Seat' as General Chair of IMS2014

Wireless Design and Development Magazine's interview with Larry Dunleavy, summarizing the vision, goals and experience as General Chair of IMS2014. Watch video.

Modelithics Papers and Presentations at WAMICON

Analysis of a 30 W Power Amplifier Reference Design Utilizing TriQuint's T2G6003028-FS Device In Agilent ADS
J. Liu, H. Morales, S. Muir, S. Skidmore (unpublished poster paper)

Synthesizing Filter Design Success with Predictable Wideband Results
I. Delgado, L. Levesque, Dr. L. Dunleavy (unpublished poster paper)

Temperature and Bias Dependent Ferrite Bead Inductor Modeling
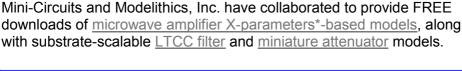H. Morales, R. Connick, T. Weller, L. Dunleavy

Announcements:

TriQuint SEMICONDUCTOR

Modelithics, Inc. and TriQuint Semiconductor have collaborated to provide FREE Modelithics models of TriQuint GaN Transistors (upon approval). Request free GaN models on the TriQuint MVP page
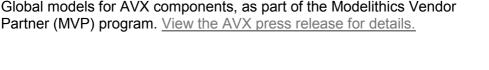
Mini-Circuits®

Mini-Circuits and Modelithics, Inc. have collaborated to provide FREE downloads of microwave amplifier X-parameters*-based models, along with substrate-scalable LTCC filter and miniature attenuator models.

Recent Press Releases:

New release of Modelithics COMPLETE Library for Agilent Advanced Design System (ADS)

Agilent Technologies
Solutions Partner

With Version 11.0 of the Modelithics COMPLETE Library for Agilent ADS, the library now represents over 10,000 RF and microwave components! See new models and updates here.

Modelithics and AVX Announce New "MVP" Partnership in RF/Microwave Simulation Model Development

AVX

Modelithics and AVX announced the addition of many new microwave Global models for AVX components, as part of the Modelithics Vendor Partner (MVP) program. View the AVX press release for details.

Passive Plus and Modelithics Partner to Develop Low and Ultra-Low ESR Capacitor Models

PPI Passive Plus inc.
RF & Microwave Components

Modelithics and Passive Plus collaborated to develop microwave Global models™ for multiple capacitor families from AVX. View the Passive Plus press release for details.

New release of Modelithics COMPLETE Library for Agilent Genesys

Version 11.2 of Modelithics COMPLETE Library for Agilent Genesys features many new models and enhanced capabilities. View the Genesys press release for details.

Application Notes:

AN048: Recommendations For Port Setup When Using ADS Momentum And Modelithics Models
By Modelithics

AN049: Analysis of a 30W Power Amplifier Utilizing Modelithics' TriQuintT2G6003028-FS Model in Agilent ADS
By Modelithics

Presentations:

Working With Modelithics Substrate-scalable Models For Mini-Circuits LTCC Filters (pdf)
By Dr. Larry Dunleavy
-Related file: ADS Workspace Example for the Mini-Circuits LTCC Filter example
-Related file: Video: Working with Modelithics Substrate-Scalable Models for Mini-Circuits LTCC Filters (MP4)

Video Demonstration Discrete 1 GHz Optimization Using Modelithics Models In AWR (mp4)
By Nuhertz

Video Demonstration 200mhz BanDPAss Using Modelithics Models In AWR (mp4)
By Nuhertz

Accurate Filter Design With Nuhertz And Modelithics (pdf)
By Nuhertz

MVP Modelithics Vendor Partner

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