Modelithics News - November 2009

What designers are saying:

"The scalable footprints in Modelithics' libraries are very useful, ensuring I can snap my artwork to a grid for EM simulation."

Louis Brown, Honeywell

Modelithics Library Releases for Agilent Genesys:

CLR	(Passives) Version 6.1	Press Release	Release Notes

AWR Makes it Easier than Ever to Access Accurate Active and Passive Model Libraries from Modelithics:

Announcing a one-click option on the AWR Web site for trial evaluations requests of Microwave Office software that includes Modelithics' highly accurate libraries. Read about it here.

Modelithics Library Releases for AWR's Microwave Office:

CLR	(Passives) Version 6.1	Press Release	Release Notes
NLT	(Transistors) Version 4.0	Press Release	Release Notes
NLD	(Diodes) Version 4.1	Q4 2009	

Consider Outsourcing to Meet Your Complex RF Data and Model Requirements:

In today's challenging economic times, capital budgets and internal capabilities are being reduced at many companies. Whether you are a circuit designer or a component, device or IC supplier, outsourcing some of your measurement & modeling to a company specializing in RF measurements & modeling may prove to be a cost effective way to get your job done & satisfy customer needs. Read article as it appeared in Microwave Journal On-Line.

APP NOTE: 031 - LDMOS Load-Pull Simulation using Agilent Genesys:

This note guides the user thru simulation of power & efficiency load-pull contours using a Modelithics developed non-linear LDMOS transistor model and Agilent Genesys Software. Application Note 31

APP NOTE: 035 - Proximity Effects in Closely-Spaced Surface Mount Passive Components:

Accounting for coupling effects that occur in circuits comprised of high frequency interconnects and surface mount devices (SMDs) is a complex problem. Very accurate equivalent circuits for the SMDs can be obtained thru careful characterization & modeling, while numerical electromagnetic simulation tools can precisely capture the behavior of the interconnect traces. As a result, the performance of hybrid circuits with SMDs and traces in close proximity may prove difficult to predict. In this paper the effects of proximity coupling are investigated. Application Note 35

APP NOTE: 036 - Effect of Over-molding on Surface Mount Capacitors and Inductor:

This app note discusses the effects of over-molding, or encapsulation on the frequency response of surface mount inductors and capacitors. Toko LLV0603-F 0201 inductors, Coilcraft 0402cs 0402 inductors, Murata GRP1555c1h 0402 capacitors and Murata GRP0335C1E 0201 capacitors. S-parameter measurements were made on 5 and 31 mil-thick FR4 test fixtures with and without Loctite FP4460 coating. Since the addition of the coating increases parasitic capacitance it manifests as a down-ward shift in the resonant frequency of the components. The effect of the coating is significantly more pronounced on the thicker substrate. Application Note 36

Also Coming Soon!

* Multi-simulator licenses
* Non-linear models for Genesys library
* System component models for AWR MWO library
* Modeling for varied duty cycle pulsed RF

For more information and sample models visit:

http://www.Modelithics.com

Precision Measurements and Models You Trust