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Modelithics Takes Circuit Design Success to a New Level with the Introduction of X-Parameter* Modeling Services

Modelithics is now very pleased to offer our customers non-linear X-parameter measurement and modeling services. This state-of-the-art technology is enabled through use of Agilent Technologies' PNA-X Series Nonlinear Vector Network Analyzer (NVNA) and provides circuit board designers with mathematically correct extensions of S-parameters for large signal conditions for devices such as amplifiers, mixers and RFIC/MMIC functional blocks. Additionally, this innovative technology characterizes the amplitudes and relative phase of harmonics, characterizes impedance mismatches, and can be applied to transistor modeling as an alternative to traditional compact equivalent modeling.

Modelithics President & CEO Larry Dunleavy had this to say: *"I had the pleasure of visiting with Agilent's research and development team in Belgium during their advancement of the Large-Signal Network Analyzer (LSNA), the predecessor to the current PNA-X NVNA platform. I applaud Agilent for reducing this powerful measurement and theoretical framework to a format that can be used by practicing engineers. We are very excited about working with Agilent Technologies in launching this new X-parameter measurement and modeling service. We are convinced that X-parameters are a very important non-linear tool set for any modeling team."* Gregg Peters, Vice President and General Manager of Agilent's Component Test Division commented that *"We are looking forward to working with Modelithics*



as they support our mutual customers with the type of non-linear behavioral models that will help them better understand the value of X-parameters and Agilent's NVNA technology."

Contact Modelithics at www.modelithics.com for more information on how you can benefit today! X-parameter models can be formatted for convenient use in your circuit simulation tools such as Agilent's Advanced Design System (ADS) Agilent's Genesys, or Agilent's SystemVue software to simulate, model, and design real-world nonlinear systems and circuits. Modelithics plans to begin including X-parameter models in its System Level Component (SLC) Library, beginning with Version 8.0 for ADS and Genesys to be released later this year.

For more information on X-parameters, Agilent's Nonlinear Vector Network Analyzer, ADS, Genesys or SystemVue software, go to: www.agilent.com/find/x-parameters.

About Modelithics, Inc.

Modelithics, Inc. (www.Modelithics.com) was formed in 2001 to address the industry-wide need for high-accuracy RF and microwave active and passive simulation models for use in Electronic Design Automation (EDA). Current products include the *CLR Library*[™], which contains measurement-based *Global Models* for a multitude of commercially-available passive component families, the *NLD Library*[™] (non-linear diode models) the *NLT Library*[™] (non-linear transistor models), and the *SLC Library*[™] (*system level component models*). Modelithics' services also address a wide range of custom RF and microwave measurement and modeling needs.

Modelithics[®] is a registered trademark of Modelithics, Inc. CLR Library[™], NLD Library[™], NLT Library[™], and the SLC Library[™] are also trademarks of Modelithics, Inc.

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* "X-parameters" is a registered trademark of Agilent Technologies. The X-parameter format and underlying equations are open and documented. For more information on X-parameters, visit:

<http://www.agilent.com/find/eesof-x-parameters-info>