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## **FOR IMMEDIATE RELEASE**

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### ***Free Mini-Circuits Non-Linear Amplifier Models!***

## **Mini-Circuits Sponsors Free Modelithics X-Parameters<sup>\*</sup> Models for Popular Surface Mount Amplifiers**

Brooklyn, New York and Tampa, Florida. Mini-Circuits and Modelithics, Inc. are working together to develop high-accuracy linear and non-linear models for selected surface-mount products. The latest offering includes three new X-Parameters<sup>\*</sup> amplifier models for Mini-Circuits PHA-1+, GVA-62+ and GVA-63+ products. Modelithics developed these models based on careful measurements made using an Agilent Technologies' PNA-X Series Nonlinear Vector Network Analyzer (NVNA). These new high-frequency behavioral models provide for the first-time for such a set of products, both linear and non-linear simulation capabilities including prediction of harmonics, non-linear distortion, compression and impedance dependent non-linear behavior. The models also predict broad-band S-parameters and noise parameters and are validated up to 18GHz. *"With these new X-parameters-based nonlinear models of our amplifiers, RF and microwave system designers can for the first time accurately validate the complete nonlinear performance of their designs through simulation, saving costly bench time. This should provide the fastest feasibility assessment of available amplifier choices in the industry. We are pleased to sponsor*

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<sup>\*</sup> X-parameters is a trademark of Agilent Technologies. The X-parameter format and underlying equations are open and documented. For more information, visit [www.agilent.com/find/eesof-x-parameters-info](http://www.agilent.com/find/eesof-x-parameters-info)



*these models for free use by all interested designers world-wide.” Harvey Kaylie,  
President of Mini-Circuits.*

The Agilent Advanced Design System (ADS) compatible versions of these models are available now as **FREE** downloads from the Mini-Circuits/Modelithics partner page at <http://www.modelithics.com/mvp/Mini-Circuits/>. The models are also included in the just released Modelithics COMPLETE Library version 10.1 for Agilent ADS and will also be included in the next release of Agilent Genesys software scheduled for release later this year.

#### **About Modelithics, Inc.**

Modelithics, Inc. ([www.Modelithics.com](http://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.

#### **About Mini-Circuits.**

Mini-Circuits was Founded in 1969 with a mission to manufacture quality products at a competitive price. Mini-Circuits is now a global leader in the design, manufacture, and distribution of RF, IF, and microwave components and integrated modules covering the DC to 40 GHz band, for commercial, industrial, space, and military applications. With 27 different product lines representing thousands of off-the-shelf and custom models, Mini-Circuits offers the world's largest variety of over 10,000 signal processing products.