

**Anritsu VectorStar™ used by Modelithics to Validate Performance  
of Broadband Diode Models Operating from DC to 125 GHz**

*— Broadband VNA System Used to Measure Performance of Models Developed for Microwave  
and Millimeter Wave Designs —*

**Morgan Hill, CA – For Immediate Release** – Anritsu Company announces that its VectorStar Broadband ME7838A vector network analyzer (VNA) system was used by Modelithics, Inc. to validate the performance of its flip chip schottky diode model for the W Band Single Anode and W Band ZBD schottky diodes from Virginia Diodes (VDI), Inc. Two-port series S-parameter measurements were made using the ME7838A and on-board probing with calibration reference at the component pad-stacks to validate the model's performance from DC to 125 GHz.

The ME7838A was used to generate ultra-broadband S-parameter data that was used in combination with DC I-V, RF resistance versus current, and harmonic power measurements made from independent instrument setups to develop and validate state-of-the-art non-linear mm-wave schottky diode models. The ME7838A was selected because of its wide frequency coverage from 70 kHz to 125 GHz, as well as its excellent dynamic range, measurement speed, and calibration and measurement stability.

“We are very excited about the technical advances represented by what we believe to be the broadest band non-linear diode models developed to date. The overall performance of the Anritsu ME7838A VNA system allowed us to acquire the 125 GHz broadband data very efficiently to enable advancement of models that not only fit this broadband data set well, but that also provided excellent agreement to independently obtain non-linear harmonic power validations,” said John Fisher, Vice President of Operations at Modelithics.

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“The Anritsu VectorStar ME7838A Broadband System helps design and modeling engineers develop and validate advanced developments such as the models from Modelithics. It provides the frequency coverage and measurement capability necessary for verifying the ever-growing complex designs at microwave and millimeter wave frequencies,” said Donn Mulder, Anritsu Senior VP and General Manager of the Microwave Measurements Division.

#### **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*<sup>™</sup>, which contains measurement-based *Global Models* for a multitude of commercially-available passive component families, the *NLD Library*<sup>™</sup> (non-linear diode models), the *NLT Library*<sup>™</sup> (non-linear transistor models), and the *SLC Library*<sup>™</sup> (*system level component models*). Modelithics’ services also address a wide range of custom RF, microwave and millimeter-wave measurement and modeling needs. Modelithics Vendor Partner (MVP) program provides flexible opportunities for supplier companies to work with Modelithics to avail mutual customers with high-accuracy measurement data sets and models for RF, microwave and millimeter-wave devices. Modelithics<sup>®</sup> is a registered trademark of Modelithics, Inc. CLR Library<sup>™</sup>, NLD Library<sup>™</sup>, NLT Library<sup>™</sup>, and the SLC Library<sup>™</sup> are also trademarks of Modelithics, Inc.

#### **About Anritsu**

Anritsu Company is the American subsidiary of Anritsu Corporation, a global provider of innovative communications test and measurement solutions for more than 110 years. Anritsu provides solutions for existing and next-generation wired and wireless communication systems and operators. Anritsu products include wireless, optical, microwave/RF, and digital instruments as well as operations support systems for R&D, manufacturing, installation, and maintenance. Anritsu also provides precision microwave/RF components, optical devices, and high-speed electrical devices for communication products and systems. With offices throughout the world, Anritsu sells in over 90 countries with approximately 4,000 employees. For more information, visit [www.anritsu.com](http://www.anritsu.com).

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#### **For more information contact:**

Katherine Van Diepen,  
Director, Marketing Communications  
Anritsu Company  
408.778.2000 ext. 1550  
[katherine.vandiepen@anritsu.com](mailto:katherine.vandiepen@anritsu.com)

Patrick Brightman  
Compass|SGW  
973.263.5475  
[pbrightman@sgw.com](mailto:pbrightman@sgw.com)