Modelithics®
World's Best RF & Microwave Simulation Models

Contacts:

Modelithics, Inc.
Angie Rogers
Vice President, Marketing & Sales
813.866.6335
sales@modelithics.com

FOR IMMEDIATE RELEASE

October 31, 2022

Modelithics and Tecdia Partner to Offer New Enhanced Varactor Models Validated Up To 110GHz

Tampa, Florida (October 31, 2022) – Modelithics, the leading provider of RF/microwave simulation models, and Tecdia, a leading provider of high-tech electronic components, are pleased to announce the release of new models for **Tecdia's HBCR22AY20X10X5A02 and HBC2R2KY20X10X5A02 varactors**. The new models are available within the Modelithics COMPLETE Library™ as well as the Modelithics mmWave & 5G Library.

The HBCR22AY20X10X5A02 and HBC2R2KY20X10X5A02 surface-mount dielectric varactors are made with Tecdia's proprietary voltage-controllable dielectric. These components are designed to control impedance in a wide range of applications up to millimeter-wave frequencies. Common applications for the varactors include tunable phase shifters, tunable matching networks, tunable filters, and voltage-controlled oscillators (VCOs).

The new Modelithics models for the HBCR22AY20X10X5A02 and HBC2R2KY20X10X5A02 varactors are measurement validated up to **110 GHz**. Validation measurements were made in reverse and forward bias (−25 to +25 V) over temperatures −40°C to +85°C. As a result, the models are bias-dependent and scale with respect to substrates and temperature.

Through the Modelithics Vendor Partner (MVP) Program, FREE 90-day trials are available for the Modelithics models for Tecdia components. For more information or to request a free trial of the Modelithics Tecdia models, visit: www.modelithics.com/MVP/Tecdia.

The Modelithics COMPLETE Library and the mmWave & 5G Library are available for Keysight Technologies' PathWave Advanced Design System (ADS), Keysight Technologies' PathWave RF Synthesis (Genesys), Cadence® AWR Design Environment®, and other simulators. For a free trial, please visit: www.modelithics.com.

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). Modelithics' premium product is the Modelithics® COMPLETE Library, which includes the CLR Library™, containing measurement-based Microwave Global Models™ for a multitude of commercially-available passive component families, as well non-linear diode models, non-linear transistor models, and system level component models. Modelithics' services also address a wide range of custom RF and microwave measurement and modeling needs. Modelithics product offerings also include the Modelithics mmWave & 5G Library, Modelithics System Components Library™ the Modelithics COMPLETE+3D Library. Modelithics® is a registered trademark of Modelithics, Inc. Microwave Global Models™, System Components Library™ and CLR Library™ are also trademarks of Modelithics, Inc. The Modelithics Vendor Partner (MVP) Program allows for collaboration and open communication during the development of advanced data sets and models for commercially available microwave components and devices, with flexible sponsorship and distribution arrangements for the resulting data and models. An example of such an arrangement is the Modelithics Qorvo GaN Library, a fully sponsored library distributed for free by Modelithics under sponsorship of Qorvo®. Modelithics also offers a Standard & Custom Test Fixture and Accessory Product Line, including legacy parts from J Micro Technology for a family of thin film Alumina substrate components.

3802 Spectrum Blvd. Tampa, FL 33612 USA • www.Modelithics.com
E-mail:**sales@modelithics.com** • Phone: 888-359-6359 • Fax: 813-866-6334