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Mini-Circuits and Modelithics Partner to Provide Free, New Simulation Models for Ten Reflectionless Filters, Six Splitters and Four LTCC Transformers

TAMPA, Florida (September 18, 2019) – Modelithics, Inc. has expanded its partnership with Mini-Circuits to develop high-accuracy simulation models for Mini-Circuits' packaged reflectionless filters, power splitter/combiners and LTCC transformers. The substrate-selectable models for the filters are measured/modeled to 40 GHz with the splitters and transformers measured/modeled to 30 GHz. 10 new reflectionless filter models, six power splitter/combiner models and four LTCC transformer models are currently available for **FREE** individual download for Keysight Technologies' ADS from the Mini-Circuits MVP page on the Modelithics website: <https://www.modelithics.com/MVP/MiniCircuits>. These models will also be available in the Modelithics COMPLETE Library and the Modelithics mmWave & 5G Library in future library releases.

The growing collection of Modelithics models for Mini-Circuits components now includes over 50 models representing 116 components, including amplifiers, attenuators, high-, low- and band-pass filters and splitters. Modelithics models add value by going beyond the data sheet and typically available S-parameter data, helping designers reach faster agreement between simulation and measured performance. Larry Dunleavy, President of Modelithics said, "Our relationship with Mini-Circuits extends back to before Modelithics began, so I am delighted to see our collaboration expand to cover a wider range of components, there is much we are doing together to streamline design success for our mutual customers. So, stay tuned for more designer-minded model developments to come".

Mini-Circuits President, Ted Heil commented, "Modelithics' simulation models have been a valuable extension of our service to customers using our parts for their designs. We're very pleased continue growing the relationship and making more of the resources Modelithics offers available for free use."

Through the Modelithics Vendor Partner (MVP) Program, the Modelithics Mini-Circuits Library is also available in versions for other EDA simulation tools such as, NI AWR Design Environment/ Microwave Office™, Keysight Technologies' Genesys, ANSYS® HFSS™, Sonnet® Suites and Cadence® Virtuoso® Spectre RF® for free 90-day trials. Request a trial by visiting the Mini-Circuits MVP page:

<https://www.modelithics.com/MVP/MiniCircuits> and click on "Free Trial". The MVP program facilitates proactive communication and collaboration with leading component and IC vendors as well as instrumentation and EDA software suppliers. Contact Modelithics at sales@modelithics.com for more information.

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 as 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. Microwave Global Models™, CLR Library™, NLD Library™, NLT Library™, and the SLC 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®.

About Mini-Circuits

Mini-Circuits is a global leader in the design, manufacture and distribution of RF and microwave components and systems with 27 product lines and over 10,000 active models from DC to 86 GHz. Demanding quality standards, value pricing, on-time delivery and world class customer service and technical support have made Mini-Circuits the world's preferred supplier of RF and microwave products for over 50 years.