

**Mini-Circuits, Modelithics Offer Free Full 3D Models for Ansys® HFSS™**

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BROOKLYN, N.Y. and TAMPA, Fla., August 20, 2020 – Mini-Circuits has partnered with modelling and simulation leader, Modelithics to offer full 3D models for Ansys HFSS for over 40 of Mini-Circuits' most popular LTCC filters. The models are now available for free download from the [Modelithics website](#) as a resource to customers in the simulation stage for new system designs. The companies plan further development of additional 3D models for HFSS on an ongoing basis.

Mini-Circuits has invested years of research and material characterization efforts to develop the most advanced modelling capability for LTCC products in the industry, consistently achieving first-spin agreement between simulations and measured results for lumped and distributed circuits up to 60 GHz. The free downloads for HFSS extend the benefits of Mini-Circuits' proprietary design knowledge to system designers for PCB prototyping and system performance optimization on the industry-standard tool for 3D simulation of full-wave electromagnetic fields.

Mini-Circuits LTCC Product Line Manager, Aaron Vaisman commented, “We’re thrilled to make our advanced modelling capability for LTCC parts available to customers through our longstanding partnership with Modelithics. These models are key to the speed and reliability of our own product development process, and I know they will be a great asset to customers using 3D simulations in HFSS to optimize performance and accelerate the design cycle at the system level.”

Modelithics employed proprietary methods to further refine and fully validate the 3D models against measured results and extend usability for different substrates, substrate thicknesses, land patterns and materials. With this latest addition, the Modelithics Library now includes over 100 advanced models for Mini-Circuits parts including S-parameter data models, substrate scalable models, X-parameter data models and Ansys HFSS 3D models.

Modelithics co-founder and President Larry Dunleavy commented, “We are pleased to combine our expertise with Mini-Circuits to offer these measurement-validated models ready for unparalleled accuracy for those wishing to use full-wave EM analysis for the prediction of complex couplings and interactions when incorporating Mini-Circuits components in their system designs.”

Mini-Circuits is pleased to sponsor Ansys HFSS 3D models for free download from the Modelithics Library as part of our commitment to providing best-in-industry resources and engineering tools for customers evaluating Mini-Circuits products for their designs.

[Go to model Downloads >](#)

**Media Contacts****Modelithics, Inc.**

Angie Rogers  
Sales & Marketing Manager  
+1 (813) 866-6335  
arogers@modelithics.com

**Mini-Circuits**

Brandon Kaplan  
Advertising & Communications  
+1 (718) 269-5216  
brandon\_k@minicircuits.com



### **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). Modelithics' premium product is the Modelithics COMPLETE Library™. This library includes measurement-based Microwave Global Models™ for a multitude of commercially-available passive component families in addition to a multitude of high accuracy non-linear diode and transistor models along with a wide range of system level component models for amplifiers, filters, attenuators and other functional blocks. 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™, 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 Mini-Circuits MVP relationship that provides free use of models under sponsorship of Mini-Circuits. Modelithics has also recently launched a new Standard & Custom Test Fixture and Accessory Product Line, including legacy parts from J Micro Technology for a family of thin film Alumina substrate components.

### **About Mini-Circuits**

Mini-Circuits is the world's preferred supplier of radio frequency (RF), and microwave and millimeter-wave components and systems. With 14 design, manufacturing and sales locations in nine countries, as well as hundreds of sales channel partners worldwide, Mini-Circuits offers 27 product lines comprising over 10,000 active models. Over 20,000 customers choose Mini-Circuits for the demanding quality standards, world-class customer support, on-time delivery and value pricing that have earned the industry's trust for over 50 years.