

## NEW MODELS & DATA ADDED TO THE PICONICS MODELITHICS MVP LIBRARY

Tyngsboro, MA – October 3, 2023 - Piconics Inc. is pleased to announce new models and data have been added to its Modelithics MVP Library through its partnership with Modelithics. Enhancements include new conical simulation models out to 90 GHz in frequency. These models will allow designers to simulate bias tee circuits out past the 65 GHz benchmark previously available.

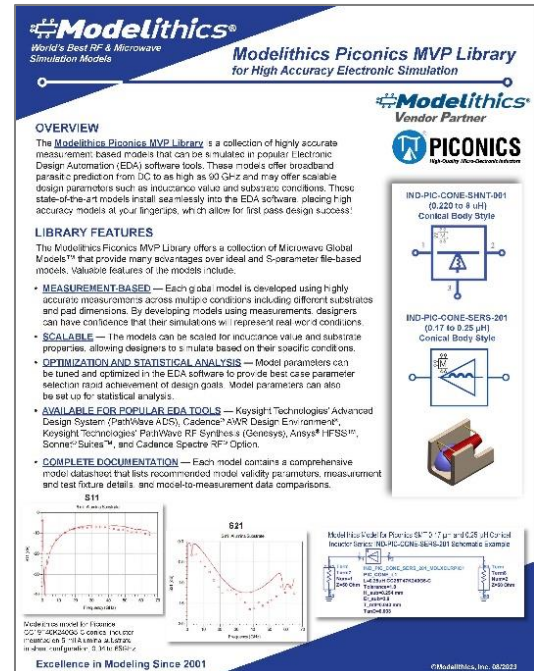
Simulation Models for Piconics Air Coils Engineering Kit #5 have been added to the library as well. These models are perfect for use in simulating high frequency filters. Please see the Modelithics-Piconics MVP Library Brochure for further details or visit the link below.

[WWW.MODELITHICS.COM/MVP/PICONICS](http://WWW.MODELITHICS.COM/MVP/PICONICS)

### ABOUT PICONICS, INC.

*Piconics is a world-class supplier of high-quality microelectronic coil inductors for a wide variety of applications in the space, military, telecom, test & measurement and medical electronics industries. Piconics specializes in miniature MIL-Spec grade inductors along with tight tolerance, fine AWG windings such as the Broad-band Conical and Microwave Air Coil Inductors. Piconics keeps the innovative spirit alive by continuing to work with industry leaders in microelectronics to provide inductor solutions to the most challenging problems. The Engineering team at Piconics continues the philosophy of promoting and innovating high-quality microelectronic inductors for the industries' most cutting edge applications. Piconics is an ISO 9001:2015 certified company with all manufacturing taking place in Tyngsboro, MA USA.*

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**Modelithics**  
World's Best RF & Microwave Simulation Models

**Modelithics Piconics MVP Library**  
for High Accuracy Electronic Simulation

**Modelithics**  
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**PICONICS**  
High-Quality Micro-Electronic Inductors

**OVERVIEW**  
The Modelithics Piconics MVP Library is a collection of highly accurate measurement-based models that can be simulated in popular Electronic Design Automation (EDA) software tools. These models offer broadband parametric prediction from DC to as high as 100 GHz and may offer scalable design parameters such as inductance value and substrate conditions. These state-of-the-art models install seamlessly into the EDA software, placing high accuracy models at your fingertips, which allow for first pass design success!

**LIBRARY FEATURES**  
The Modelithics Piconics MVP Library offers a collection of Microwave Global Models™ that provide many advantages over ideal and S-parameter file-based models. Various features of the models include:

- MEASUREMENT-BASED** — Each global model is developed using highly accurate measurements across multiple conditions including different substrates and pad dimensions. By developing models using measurements, designers can have confidence that their simulations will represent real world conditions.
- SCALABLE** — The models can be scaled for inductance value and substrate properties, allowing designers to simulate based on their specific conditions.
- OPTIMIZATION AND STATISTICAL ANALYSIS** — Model parameters can be tuned and optimized in the EDA software to provide best case parameter selection and achievement of design goals. Model parameters can also be set up for statistical analysis.
- AVAILABLE FOR POPULAR EDA TOOLS** — Keysight Technologies' Advanced Design System (PathWave ADS), Cadence® AWR Design Environment®, Keysight Technologies' PathWave RF Synthesis (Genesys), Ansys® HFSS™, Sierra® Simulia™, and Cadence Spectre™ Option.
- COMPLETE DOCUMENTATION** — Each model contains a comprehensive model datasheet that lists recommended model validity parameters, measurement and test fixture details, and model-to-measurement data comparisons.

IND-PIC-CONE-SHNT-001 (0.220 to 8 µH) Conical Body Style  
IND-PIC-CONE-SERS-001 (0.17 to 0.25 µH) Conical Body Style

Modelithics Model for Piconics Kit #5 - 100 GHz - 0.220 to 8 µH Conical Inductor Series: IND-PIC-CONE-SHNT-001 schematic example

Modelithics Model for Piconics Kit #5 - 100 GHz - 0.17 to 0.25 µH Conical Inductor Series: IND-PIC-CONE-SERS-001 schematic example

Modelithics Model for Piconics Kit #5 - 100 GHz - 0.220 to 8 µH Conical Inductor Series: IND-PIC-CONE-SHNT-001 schematic example

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