Overview
The Modelithics COMPLETE+3D Library for Ansys HFSS brings incredible flexibility and accuracy to the high frequency electronic design process. The integration of Modelithics' high accuracy scalable parasitic models into the HFSS design environment makes EM co-simulation a seamless process. The advanced-feature models, along with electromagnetic layout analysis, results in very accurate model-to-measurement agreement and fewer design iterations. Full-wave 3D EM models are now included in the library. The 3D models take the design analysis a step further and capture electromagnetic interactions between components and surrounding elements. All models are measurement validated and designed to accelerate the design process.

Library Features
The Modelithics COMPLETE+3D Library is a comprehensive collection of models, representing thousands of components from many popular vendors, and offering powerful advanced features:

Modelithics Microwave Global Models™
- Substrate scaling
- Part value scaling
- Pad dimension scaling
- Statistical analysis
- Seamless EM co-simulation

Modelithics 3D Geometry Models
- Substrate independent
- Full-wave 3D EM simulation
- Predict coupling effects
- Design necessary shielding

All Modelithics Models
- Measurement-based — Each model is developed using specialized measurements under device-specific test conditions.
- Model Documentation — Each model contains a model datasheet that lists recommended model validity parameters, measurement and test fixture details, and model-to-measurement data comparisons.

Simulated S-parameters of a simple low-pass filter on three different substrates to 15 GHz. Modelithics models scale by substrate properties accurately capturing parasitic effects
WARSAW, POLAND - NOVEMBER 22, 2023: Image of a page from a document. This page contains a list of components in the Modelithics COMPLETE+3D Library. The page lists various electronic components from different manufacturers, including AVX, Würth Elektronik, Panasonic, and others. The page also includes a section on Modithics 3D Geometry Models and a list of Mini-Circuits (RF, Coaxial Connectors). The document is a comprehensive guide for users of the Modelithics library, providing detailed information on the components and their applications. The page also includes interactive links to view the Ansys MVP landing page on the Modithics website and to browse literature collection resources. The document is designed to help users find the latest available component models and view the Quickstart Tutorial Video for Ansys HFSS. The page also includes a section on viewing model datasheets and requesting a FREE trial of the Modithics COMPLETE+3D Library. The page is a valuable resource for engineering and design professionals looking to use the Modelithics library in their work.