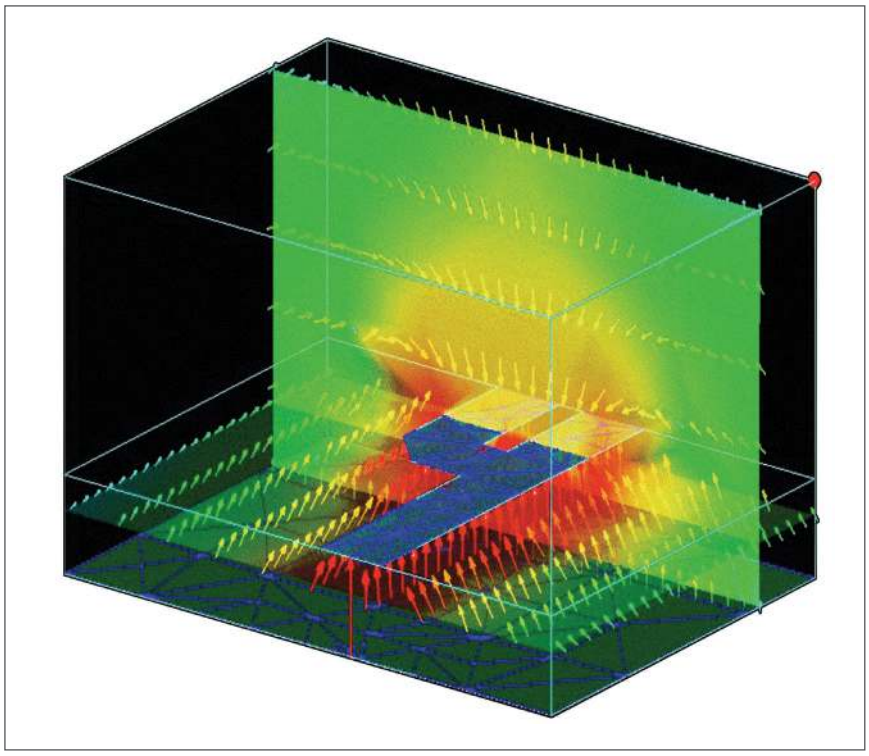
Keysight Technologies
EEsof EDA
W2342 FEM Simulator Element
(Finite Element Method)



Animate 3D EM vector fields on multiple interactive cut-planes to gain design and troubleshooting insights.

The Keysight Technologies, Inc. FEM simulator element provides full wave 3D electromagnetic simulation capabilities to both EMPro and the Advanced Design System (ADS). ADS is the only design simulation platform that enables the co-design of IC, package, and board in high-frequency and high-speed applications. It seamlessly integrates system, circuit, and full 3D electromagnetic simulation with Keysight's test instrumentation, resulting in repeatable, first-pass electronic design success.

FEM simulator is Keysight's second-generation, finite-element method (FEM), 3D electromagnetic simulator. It is integrated into the ADS design flow to enable seamless co-simulation of arbitrary 3D structures such as connectors, wirebonds, and packaging with circuit and system components. This allows effects of 3D components previously difficult or tedious to include in a design simulation to be naturally accounted for without leaving the circuit design flow. It is especially convenient for RF module designs where 3D interconnects and packaging must be simulated along with the circuit.

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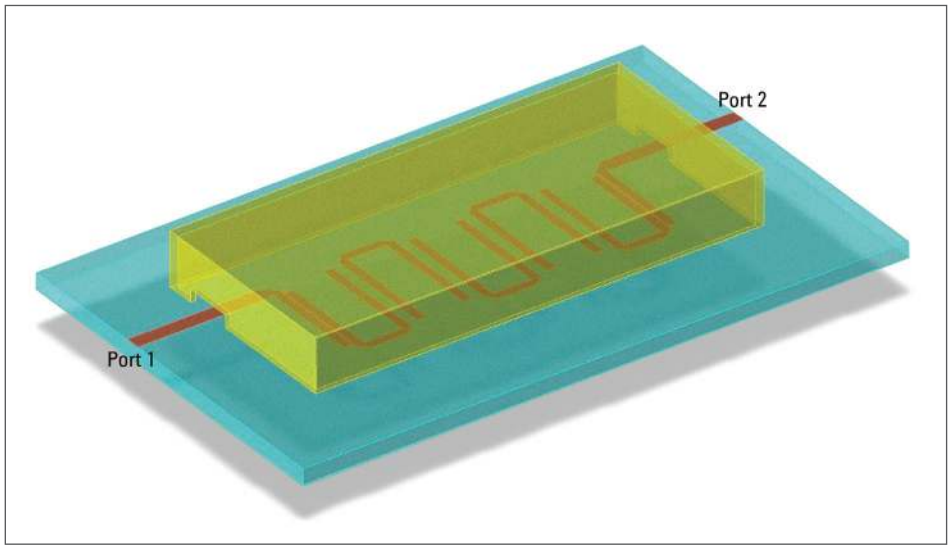
The FEM simulator element capabilities include:

- Full-wave 3D finite element method (FEM) electromagnetic simulator with advanced direct and iterative solver for speed and capacity
- Robust and efficient 3D mesh generator with adaptive meshing to deliver user-specified accuracy
- Adaptive frequency sweep to locate all resonant frequencies automatically and quickly with minimum simulation frequency points
- Symmetry planes to speed up simulation and increase capacity
- 3D parameterized components of commonly used structures such as wire bonds, solder balls, solder bumps, connectors and packages to speed up 3D design input and enables geometry sweeps and co-optimization with circuit components

Unlike other equally capable stand-alone simulators, the FEM simulator is integrated into the ADS design flow and can save up to 2 hours of manual data integration per simulation run. In addition, integration allows you to perform 3DEM-circuit-system co-simulation and co-optimization for realizing your best possible design in one pass.



Analyze the effects of 3D EM shielding directly in your circuit design environment.

For more information on Keysight Technologies' products, applications or services, please contact your local Keysight office. The complete list is available at:
www.keysight.com/find/contactus

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