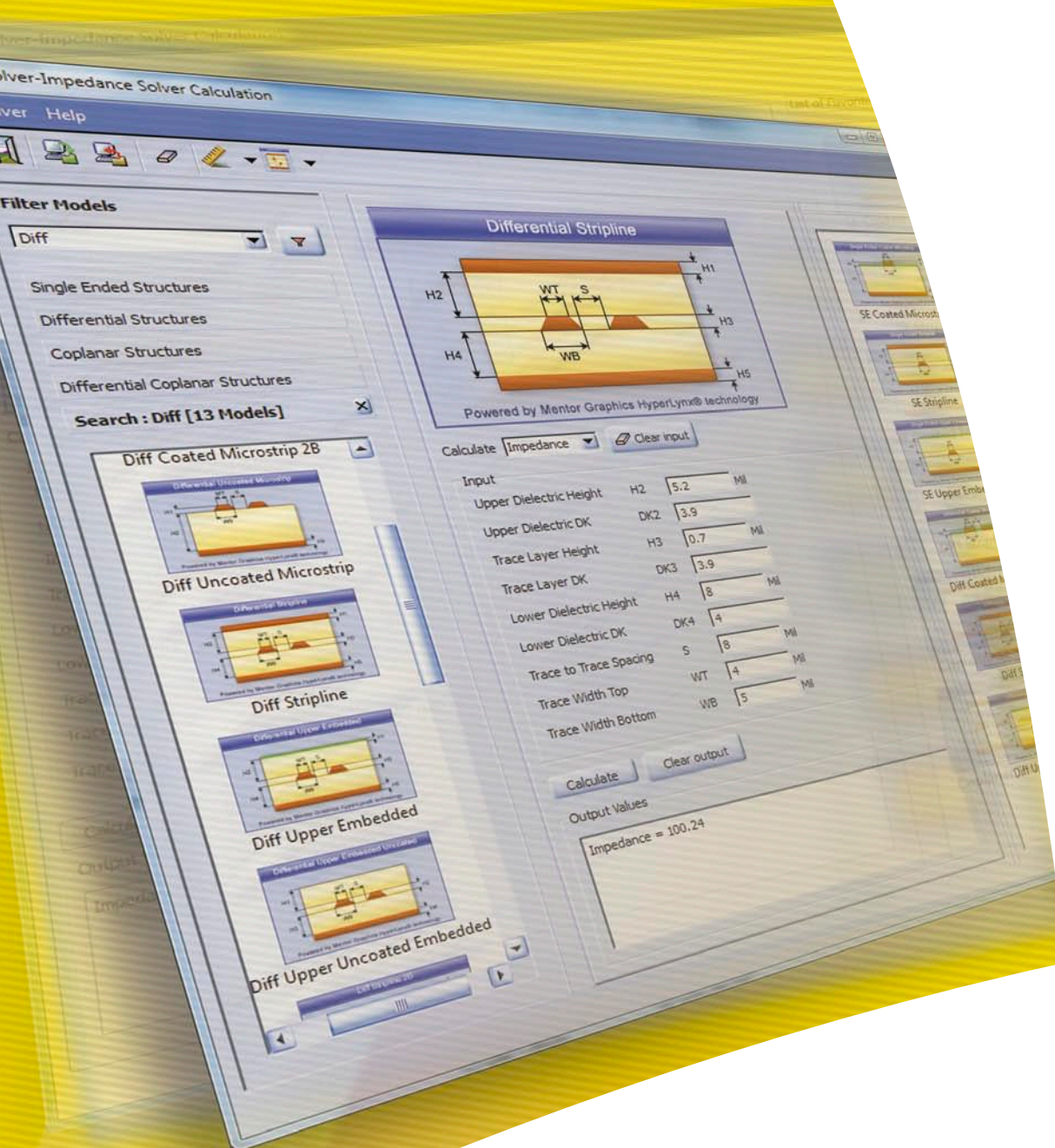


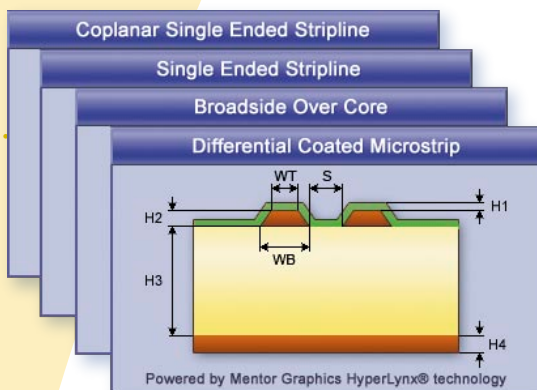
InSolver®

Impedance Field Solver



Powered by Mentor Graphics HyperLynx® technology, InSolver® is a cost-effective PCB impedance field solver that enables fast and accurate stackup and impedance modeling for a wide range of PCB structures. InSolver® is available both as a standalone application for engineers, QA and sales, and as an embedded impedance solver in Frontline's industry-leading Engineering solutions.

- Calculate impedance for multiple PCB structures
- Speed up automatic stackup in InPlan®
- Use the same proven solver engine used by board designers
- Reduce impedance-related scrap with accurate modeling



Impedance Structures

InSolver[®] for InPlan[®]

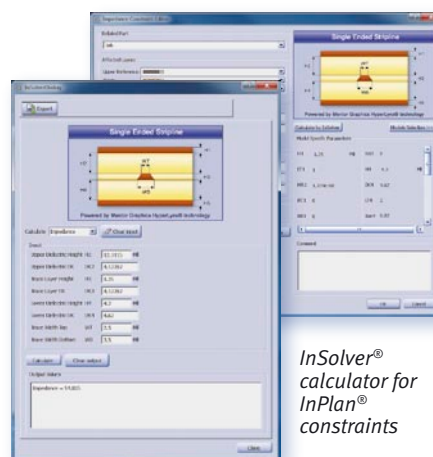
Use the embedded InSolver[®] interface in InPlan[®] or InStack[®] to calculate impedance quickly and accurately and shorten time to market.

Speed up automatic stackup in InPlan[®]

Cut impedance calculation time in half and speed up automatic stackup design when you run the embedded InSolver[®] interface in InPlan[®] or InStack[®].

Check impedance for hypothetical values

Open an InSolver[®] calculator from an InPlan[®] impedance constraint and calculate impedance for alternative thickness or DK values, without needing to replace materials or modify rules.



InSolver[®] calculator for InPlan[®] constraints

Share constraint data with InSolver[®] users

Export constraints data from InPlan[®] to InSolver[®] standalone users in other departments.

Minimum System Requirements

For up-to-date system requirements, please visit our website at www.frontline-pcb.com

Fast and accurate impedance modeling

Calculate impedance for multiple PCB structures

Precisely calculate standard single-ended and differential impedance constraints and access a wide range of Broadside Coupled, Coplanar and Embedded models to accurately simulate impedance for the most complex structures.

Use the same proven solver engine used by board designers

Run on HyperLynx[®] solver technology, InSolver[®] uses the same engine to calculate impedance that designers use to design the board, offering you consistency and reliability.

Reduce impedance-related scrap with accurate modeling

Meet your customers' target impedance every time using conformal solder mask modeling, separate dielectric content for resin-rich areas around traces, and separation of dielectrics for non-adjacent reference planes.

Enjoy excellent service and the convenience of a single vendor

Avoid unforeseen costs and ensure a smooth implementation by purchasing both your automatic stackup solution and impedance engine from the same trusted vendor. Benefit from the attentive after-sales care you've come to expect from Frontline, at a price to suit your budget.

Purchase the exact number of solvers you need

Purchase any combination of InSolver[®] standalone and InSolver[®] for InPlan[®] licenses, with no minimum orders or hidden extra costs.

InSolver[®] (standalone)

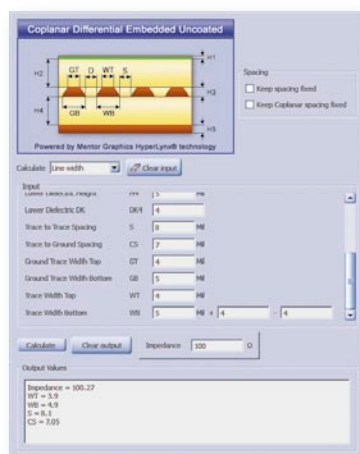
Instantly calculate even the most complex structures with the standalone InSolver[®].

Clean, easy-to-use interface

With a clear illustration of each structure and a simple interface for entering impedance constraint parameters, easily simulate impedance or calculate impedance from manufactured cross-sections. Define 'Favorites' for quick access to your most frequently used models.

Calculate impedance and other parameters

Calculate impedance for input dielectric and trace properties or solve for other parameters, such as trace width and spacing, to meet the target impedance.



Solve for line width and spacing



www.frontline-pcb.com

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