

DFM Validation & NPI

New product introduction (NPI) platform for PCB design-to-manufacturing handoff

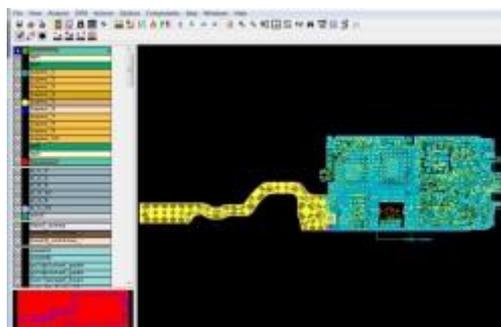
Overview

Valor NPI ensures a smooth transition from PCB design to fabrication, and on to assembly. The Valor NPI platform provides comprehensive DFM analysis, applied in parallel with your design flow for maximum advantage, or on design completion. By combining the Valor NPI manufacturing optimization tools and DFM, the design can be fully prepared for handoff to production.

For PCB designers, Valor NPI provides concurrent DFM analysis during the design process, applying almost 700 manufacturing rules to the design ensuring minimum revision spins in manufacturing. The DFM analysis flow can be set up to automatically analyze each new version and pinpoint all potential manufacturing problems directly in the CAD system.

For manufacturing NPI engineers, Valor NPI provides comprehensive analysis to prove new products match the fabrication processes. BOM, AVL and component analysis ensures the design complies with assembly and test processes. Rapid feedback to the PCB designer allows DFM corrections or improvements to be implemented before hand-off to process-preparation.

Leverages the ODB++ intelligent data format to optimize data exchange between design, fabrication, assembly and test. [Learn more about ODB++ data exchange.](#)



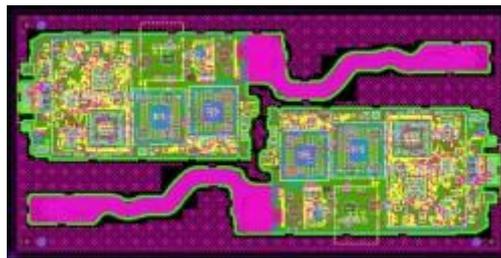
Full DFM analysis for fabrication, assembly & test

Validate manufacturing constraints concurrently with the design flow



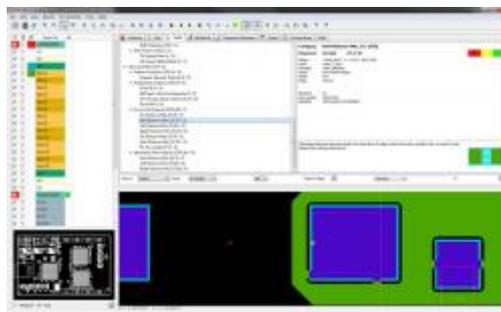
Valor DFF embedded in Xpediton layout tools

Easily find and fix the essential fabrication DFF problems at source



Preparation of the complete, integrated product-data

A single structured data package eliminating the need for drawings and side-files



Manufacturing risk assessment

Identifies direct manufacturing violations as well as potential low yield or field failures

Technical Specifications

Concurrent DFM verification with incorporates manufacturing optimization into your PCB design process, enhancing fabrication and assembly improvement during layout.

- For rigid, flexible and rigid/flex PCBs, including HDI and packaging substrates
- More than 700 PCB DFM analysis checks, covering:
 - Fabrication
 - Micro-via
 - Back-drilling
 - Substrate manufacturing
 - BOM & AVL validation
 - Assembly & test processes
 - Assembly panel checking
- Minimizes the number of revision spins to bring a new design to production release
- Lowers total product cost by enabling automated DFM early in the design and NPI process
- Improves the reliability of a design by locating manufacturing risks to be managed ahead of the production processes
- Provides the interface between design and manufacture to ensure smooth transition to production
- Reduces the amount of time spent on manufacturing “call-backs”
- Works with all major PCB layout tools