

Introducing Sherlock Automated Design Analysis™ 3.0 with 3D Capability

The Revolution

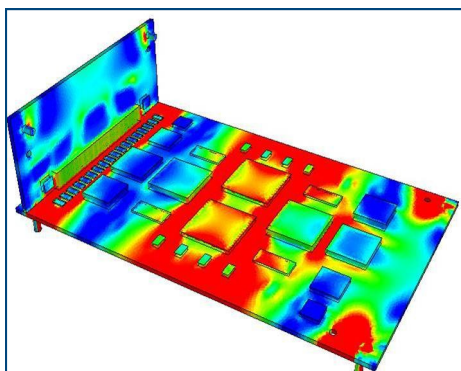
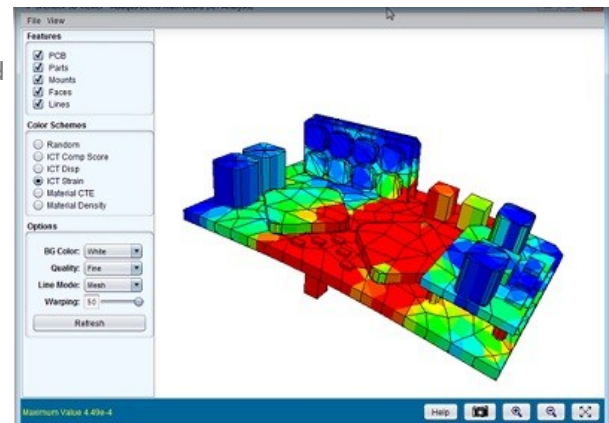
Sherlock Automated Design Analysis™ software revolutionized electronics reliability and design by enabling designers to predict product failure before a product was ever built, designing in product reliability early in the product development process. This revolutionary tool just got better.

The Evolution

Continuously innovating and evolving, Sherlock 3.0 incorporates enhancements enabling users to manage complex analyses more easily and faster than ever before.

3D FEA Model and 3D Viewer for ICT and Shock and Vibration analysis incorporate fully 3D elements for the PCB, components, and mount points enabling increased simulation accuracy and flexibility for faster analysis. The FEA 3D viewer allows users to visualize 3D models and results interactively and amplify and rotate results to visualize minute changes.

- Multi-core and 64 bit support
- Faster analysis



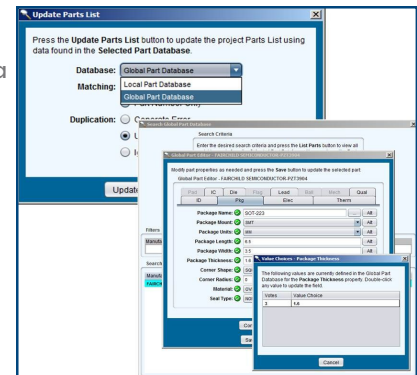
New Sub-Assembly Analysis allows users to attach one or more circuit card sub-assemblies to the primary circuit card. The software automatically analyzes the main circuit card and all sub-assemblies during a single ICT or shock and vibration analysis.

- Mezzanine cards supported by standoffs
- Edge-connected cards

Call for more information
(301) 474-0607

Global Parts Database with private cloud storage allows users to store and share parts data across their projects and with other Sherlock users, reducing data entry time and increasing data accuracy.

- Operates 24/7 online
- View ranked alternative part data
- Complete privacy for all users

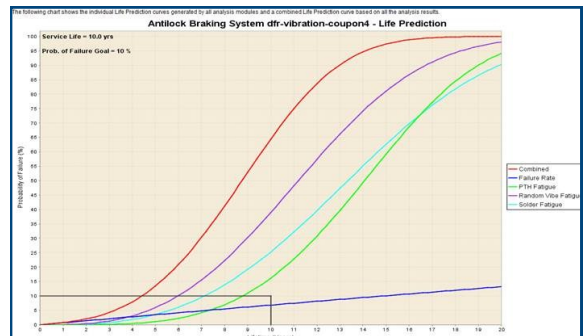


| Layer | Material | Thickness | Copper | Prepreg | Core | Epoxy |
|-------|-----------------|-----------|--------|---------|--------|--------|
| 1 | SIGNAL - COPPER | 0.016 | 2.0072 | 48.412 | 48.412 | 18.810 |
| 2 | SIGNAL - COPPER | 0.016 | 2.0072 | 48.412 | 48.412 | 18.810 |
| 3 | POWER - COPPER | 0.016 | 2.0072 | 48.412 | 48.412 | 18.810 |
| 4 | PREPREG - SHIM | 0.016 | 1.9808 | 79.880 | 79.880 | 28.004 |
| 5 | SIGNAL - COPPER | 0.016 | 1.9808 | 48.482 | 48.482 | 8.202 |
| 6 | SIGNAL - SHIM | 0.016 | 1.9808 | 79.880 | 79.880 | 28.004 |
| 7 | SIGNAL - COPPER | 0.016 | 1.9808 | 48.514 | 48.514 | 8.142 |
| 8 | SIGNAL - SHIM | 0.016 | 1.9808 | 79.880 | 79.880 | 28.004 |
| 9 | POWER - COPPER | 0.016 | 2.0479 | 48.412 | 48.412 | 8.800 |
| 10 | SIGNAL - SHIM | 0.016 | 1.9808 | 79.880 | 79.880 | 28.004 |
| 11 | SIGNAL - COPPER | 0.016 | 2.0479 | 48.800 | 48.800 | 14.211 |

Improved Result Management functionality enables more powerful analysis and flexibility. Users can organize results in any convenient manner with multiple viewers allowing side by side review and comparison of past and present results.

- Launch from within Sherlock or from your desktop
- Multiple viewers can be active at the same time

Embedded Failure Rate Models – in addition to a Physics of Failure based analysis, Sherlock 3.0 incorporates MIL HDBK-217 and SSR-332, and custom failure rate models. Sherlock automatically computes a failure rate for each circuit card component based on the part data currently defined in the parts list. This enhanced feature significantly reduces data entry and maintenance across a collection of circuit card assemblies and projects over a period of time.



Sherlock Automated Design Analysis™ software is the first-of-its-kind tool for analyzing, grading, and certifying the expected reliability of products at the circuit card assembly level. The intuitive commands and ease of use enable use among a broad range of engineers and managers, where rapid results provide almost immediate feedback on product designs and their performance in the hands of the customer.

Sherlock enables electronics manufacturers to design-in reliability earlier in the product development process contributing to quicker time to market, reduced development costs, improved customer satisfaction, and higher profits.

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