

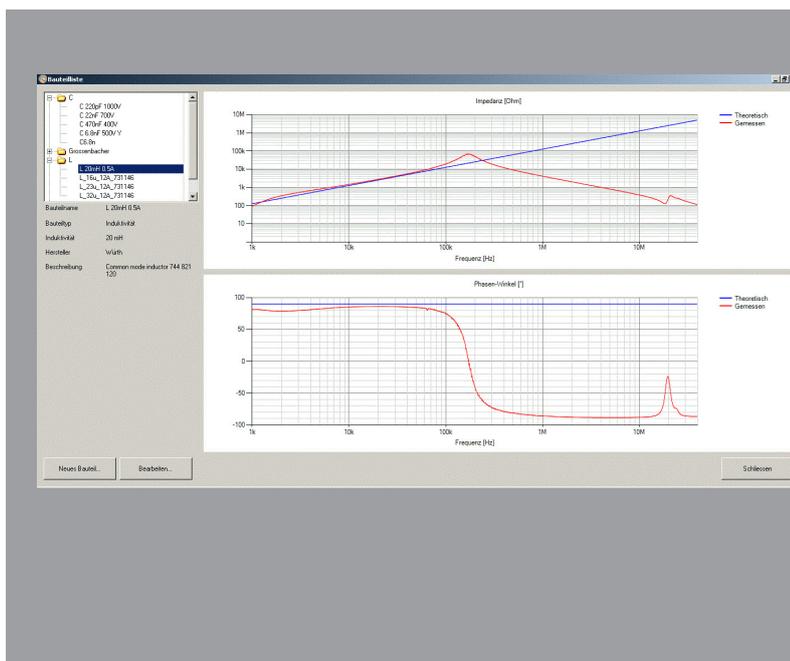
EFsyn EMC Filter Synthesis Tool

- Realistic filter calculation
- Optimization of EMC filters
- Time savings thanks to precise calculation
- Library based on your own filter components
- Automatic measurements with the Bode 100 by Omicron
- Easy import of new parts with "csv" File's
- Libraries can easily be extended
- Individually expandable software and Interface for data import

EMC Filter Synthesis Tool



EMC Filter Synthesis is a software for simulation and design of realistic passive filters. **The synthesis and simulation of each filter are based on real and measured components.** This approach considers all parasitic effects by the components without using any equivalent circuits. New inductors, conductors or resistors can be measured and imported quickly with the Bode 100 by Omicron Lab. All parameters are saved and used as CSV- file's. Therefore an efficient import from different measurement devices is available through the data file.

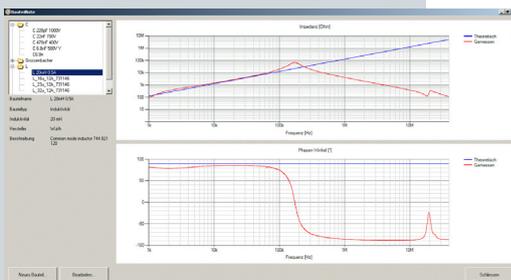


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Selection

The library is based on your own filter components. New parts can easily be added with a standard network analyser. All components can be easily managed and selected in the software. With only one click all parameters such as frequency response and phase are shown in a graph.

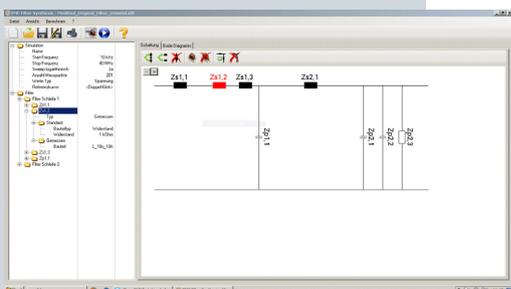


Synthesis

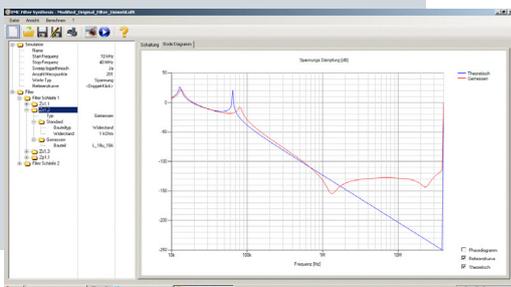
Every passive filter structure is designable. Every filter element is based on a measured part. Alternatively ideal components may be used. Frequencydependent in- and output impedance can be considered.

Optimization

The filter transfer function is simulated. Changes at the filter structure are displayed immediately. You can quickly compare ideal with measured parts. Even a complete filter application can be used as a reference.



A quick and simple interpretation and verification of passive filters on computers is possible, taking into account the parasitic elements.



Further information and demo version
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