

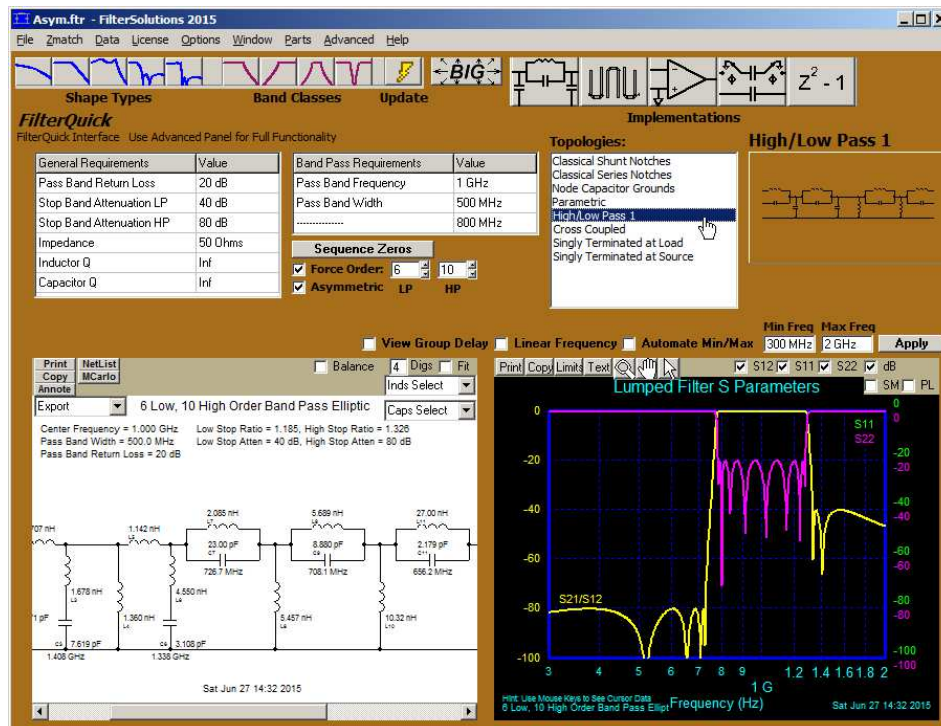


FilterSolutions® Asymmetrical Bandpass Filter Design

FilterSolutions is an accurate design tool for the creation of asymmetric frequency response bandpass filters. Bandpass filters may often not require symmetric attenuation responses on each side of the pass band. A design of a classic distributed band pass filters, with symmetrical performance above and below the passband, may require additional parts and waste a significant amount of board space.

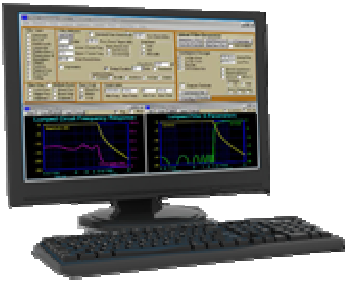
FilterSolutions provides a fast, accurate, and automated methodology for setting asymmetric design parameters. The parameters can be implemented in either the FilterQuick™ or the "Advanced" interface of FilterSolutions "Pro." The program allows the entry of independent design attenuation goals and the number of poles for each side of the passband. FilterSolutions instantly provides the exact synthesized solution.

Chebyshev II, Hourglass, and Elliptic functions are all supported, (An Elliptic filter example is shown below). For Butterworth and Chebyshev I designs, the only required user data is the number of poles selected.



Asymmetric Elliptic Band Pass Filter Design

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Nuhertz[®]

Best in Filter Designs

In addition to being fast and easy to use, final filter designs for asymmetric functions are achievable with FilterSolutions' automatic S-Parameter and SPICE model file part selection capabilities.

FilterSolutions lumped designs can also be exported to third party simulators such as CST's Design Studio[®], or NI-AWR's Microwave Office[®] including Modelithics[®] models. The Modelithics capabilities extend to NI-AWR/Modelithics discrete optimization, automatic AWR Web Library part selections, and AWR interconnect optimization.

CST's Design Studio capabilities include automated device library part selection and CST's Design Studio interconnect optimization.

The full FilterSolutions program is available in node-locked, dongle-locked or network license form. Prices begin at \$9,500.

For further information visit our website: www.nuhertz.com or call (973)228-7800.

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