

## Optimization of noise performance for various topologies of microwave active recursive filters

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This article deals with the improvement of the noise figure for three topologies of microwave active recursive filters. We show how, using a noise wave formalism, the noise factor of these filters can be effectively minimized by using appropriate unbalanced power dividers/combiners and an amplifier. A comparison between the different topologies is given. We start from measured results and validate our approach with simulated examples.

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