

## Review of: "Designing and modeling microwave photonic spectral filters based on optical microcombs"

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Potential competing interests: No potential competing interests to declare.

Authors present a detailed analysis for the performance of microcomb-based MWP

spectral filters achieved by employing a transversal filter approach, and studied theoretical limitations due to finite tap numbers, imperfect response of experimental

components, and bandwidths of input microwave signals.

Various filter parameters like resolution, ROR, and MSSR are investigated with AD and RMSE for three types of filters. LPFs, BPFs, and HPFs. The following are the comments:

- 1. The results discussed here are from the simulation work, the simulation software must be mentioned.
- 2. What are the theoretical limitation of the filter response? It is not clear much.
- 3. What is the contribution of the present work? A comparison with the similar works may be useful.
- 4. While implementing for the real application, the fabrication and measurement aspects are missing.
- 5. The manuscript seems to be larger and repetitive text can be removed like few lines from last line in page 9 to 1-7 lines in page 10.
- 6. Some application of the present filter can be added for showing the level of its practical use.