

# 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.

the manuscript gives out a comprehensive analysis for the performance of microcomb-based MWP spectral filters. The paper is well-written, with clear figures (Figures are well drawn. Appreciable.), and convincing results. In my view, this article needs minor revision before acceptance. there are few suggestions in this regard.

1. Rephrase the last paragraph of section 1. The sequences of writing are moving up and down. Prepare a smooth flow of presentation.
2. Fig 8 (b-i), the peak is at 10 GHz. Is this frequency applicable for optical transmission?
3. Fig 8 (c-ii) BER is high at 10 GHz. why?
4. majority of the referred papers are older than 2020. Do investigate the recent research papers.
5. Performance analysis of the filter according to actual parameters of existing devices (wavelength stability, the amplitude stability) need to be done.
6. The clarity about the experimental results or simulation results is not mentioned.
7. The style (format) of references must be uniform