

Supplementary Material for the manuscript: Demonstration of a Terahertz Coplanar-Strip Spoof-Surface-Plasmon Polariton Low Pass Filter

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Impact of Transition Circuit

Fig. 1 plots the simulated signal transmission for CPS-SSPP structure with and without a TC. When a TC is used the stop-band attenuation is significant which occurs when the SSPP mode is excited. Alternatively, when a TC is negated, the stop-band attenuation is less pronounced indicating poor mode conversion. Optimization of the TC is a novel research direction, but it is outside the scope of this paper.

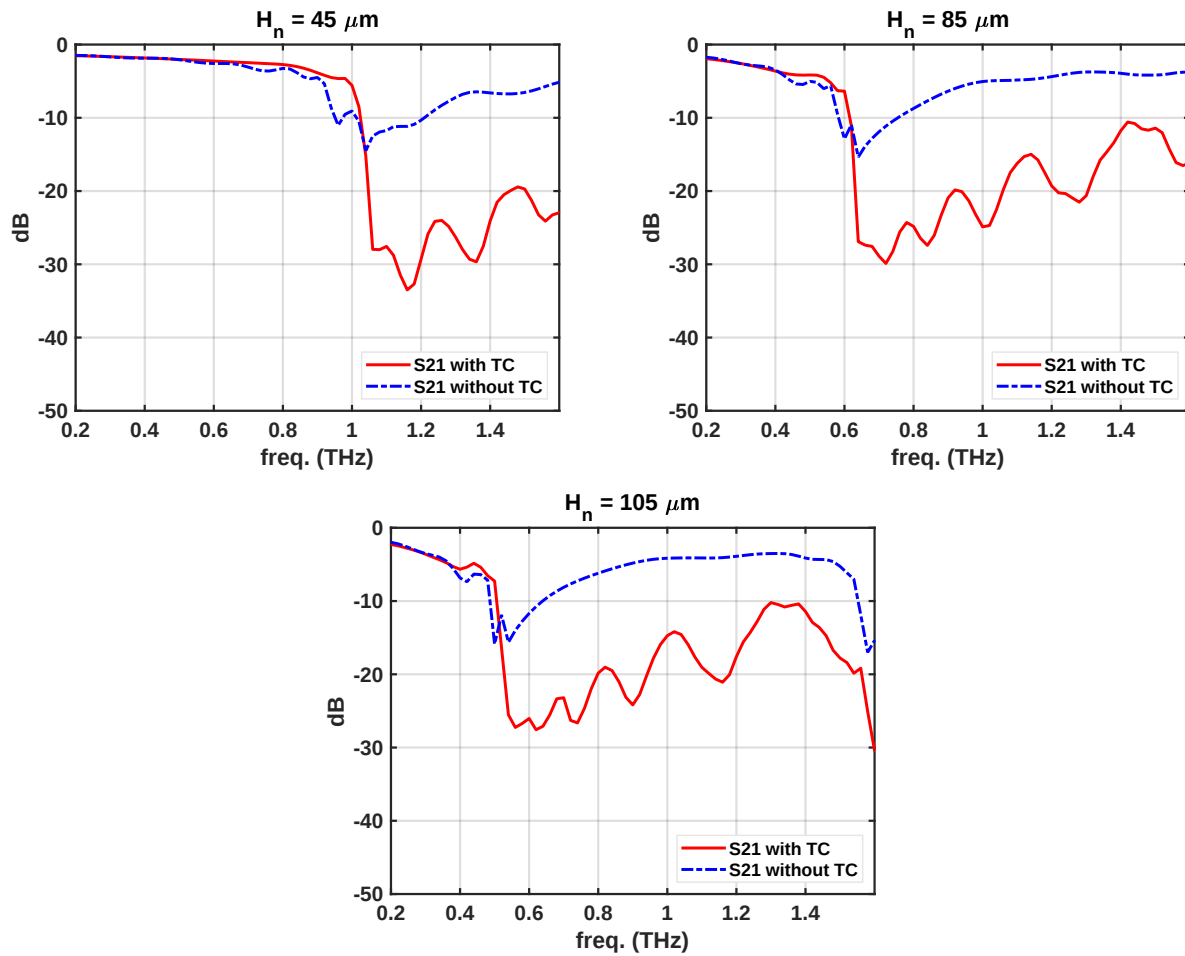


Figure 1. Effect of the transition circuit (TC) on the frequency response.