

Design and Evaluation of Bragg Grating Cavity Devices

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Introduction

This is the first draft of the MZI circuit containing 4 different variations of circuits and they are each consist of 3 te-mode grating couplers in 1550nm, a splitter and waveguides.

Model description

This is the first draft of Project 1, the parameters are not correctly following the rubrics in the slides. The box width is 605 um and height is 410 um. The parameters of the waveguides are 5um width, and the grating couplers are te-mode grating couplers in 1550nm. The layout functional verification shows no error.

Design methodology

TBD

Simulation results

TBD

Test methodology

TBD

Fabrication

TBD

Circuit analysis

TBD

Conclusion

Reference