2020-2 semester
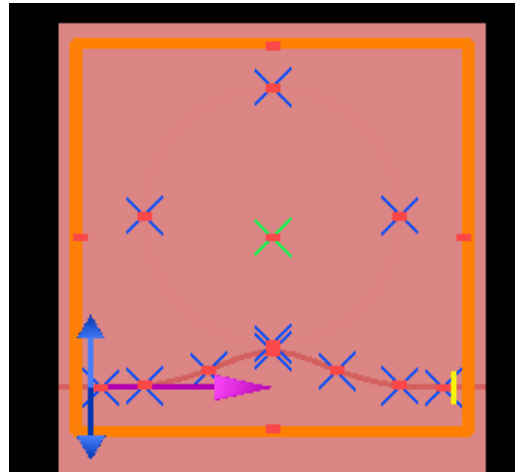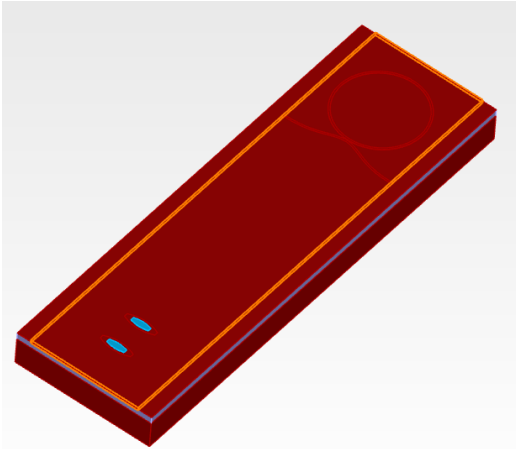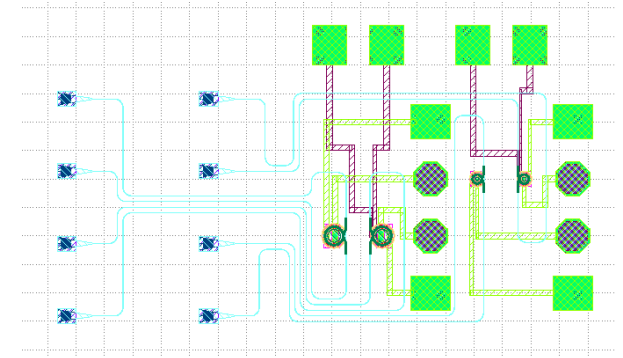
➤ Ring Modulator and Filter Heat Crosstalk
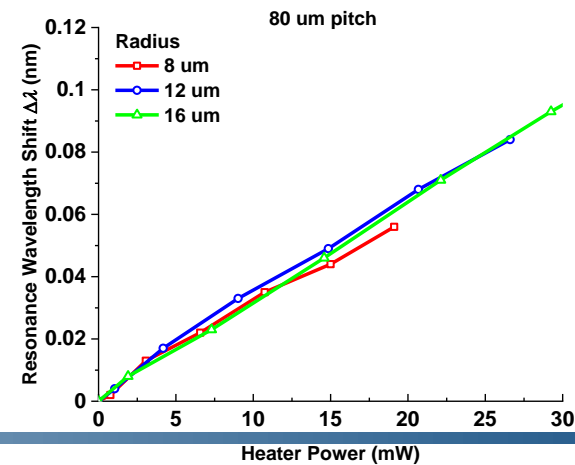
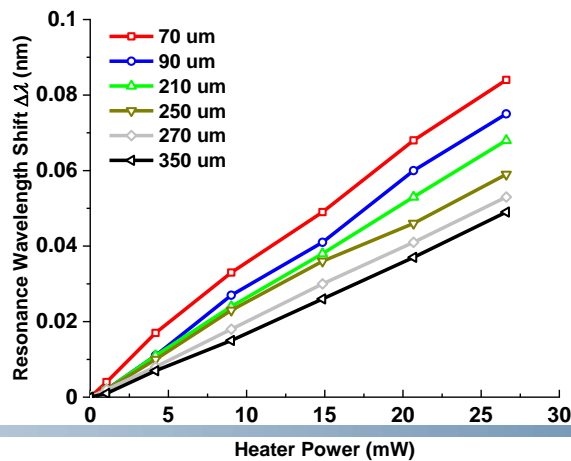Device Heat Simulation

MODE Optical Simulation

Fabication (IHP, IMEC)

Measurement Results
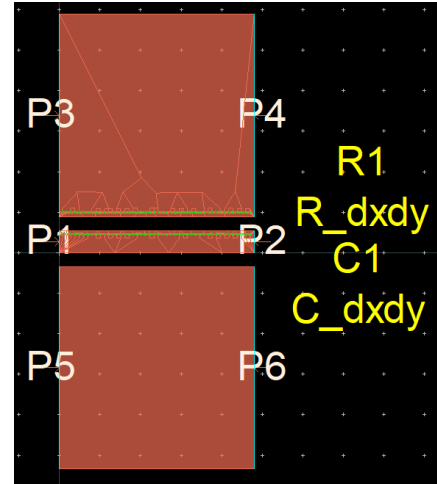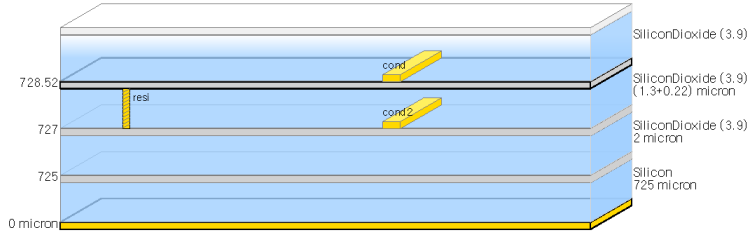
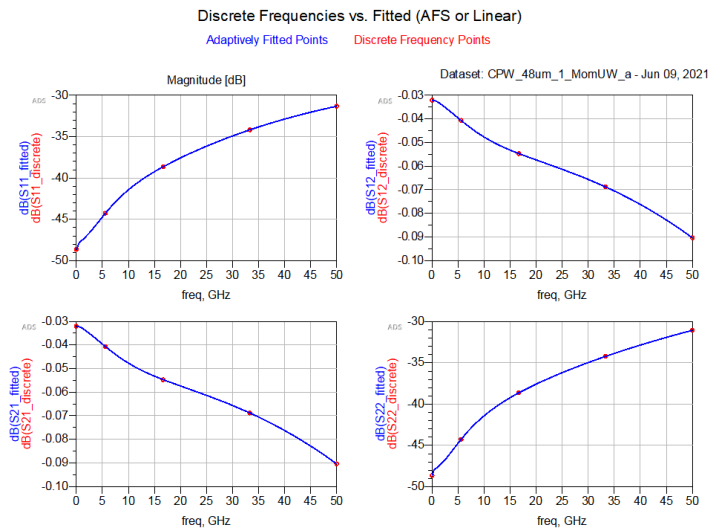Innovative Research Group

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➢ MZM Full-wave simulation → ADS Momentum

2. Layout

1. Substrate setup

❖TWE Layout →
Multiple layers
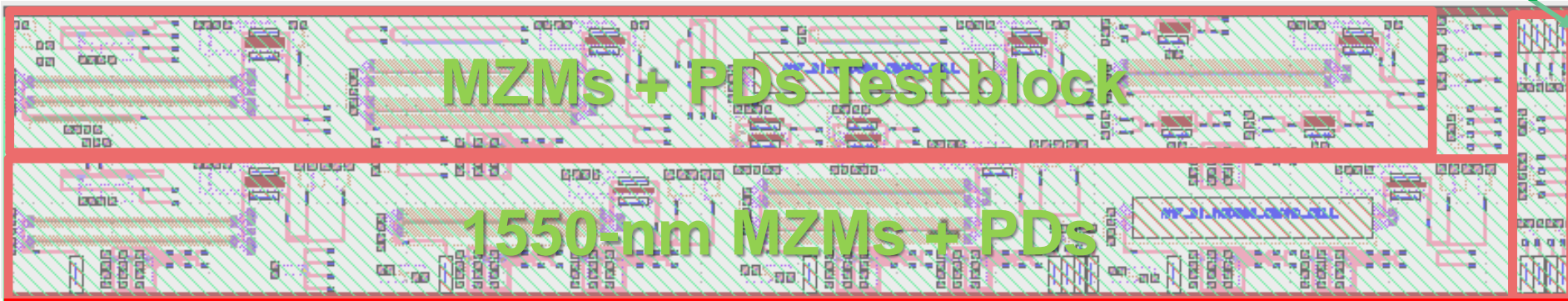❖Customized RC
component

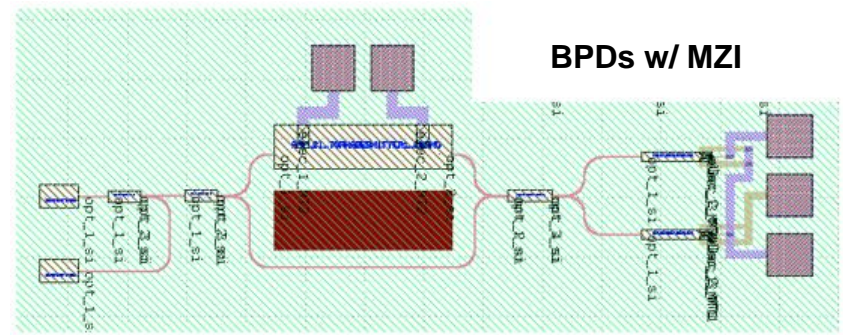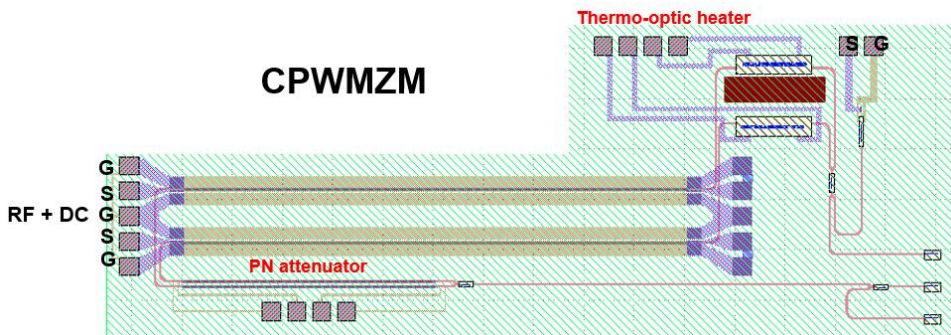## 3. Results

❖ S-parameter, etc.

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➢ MZM Fabrication

PDs, BPDs

MZMs + PDs Test block

1550-nm MZMs + PDs

Other blocks: Between MZM + PDs block

Thermo-optic heater

CPWMZM

S G

G
S
G
S
G

RF + DC

PN attenuator

BPDs w/ MZI

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➢ MZM Linearity