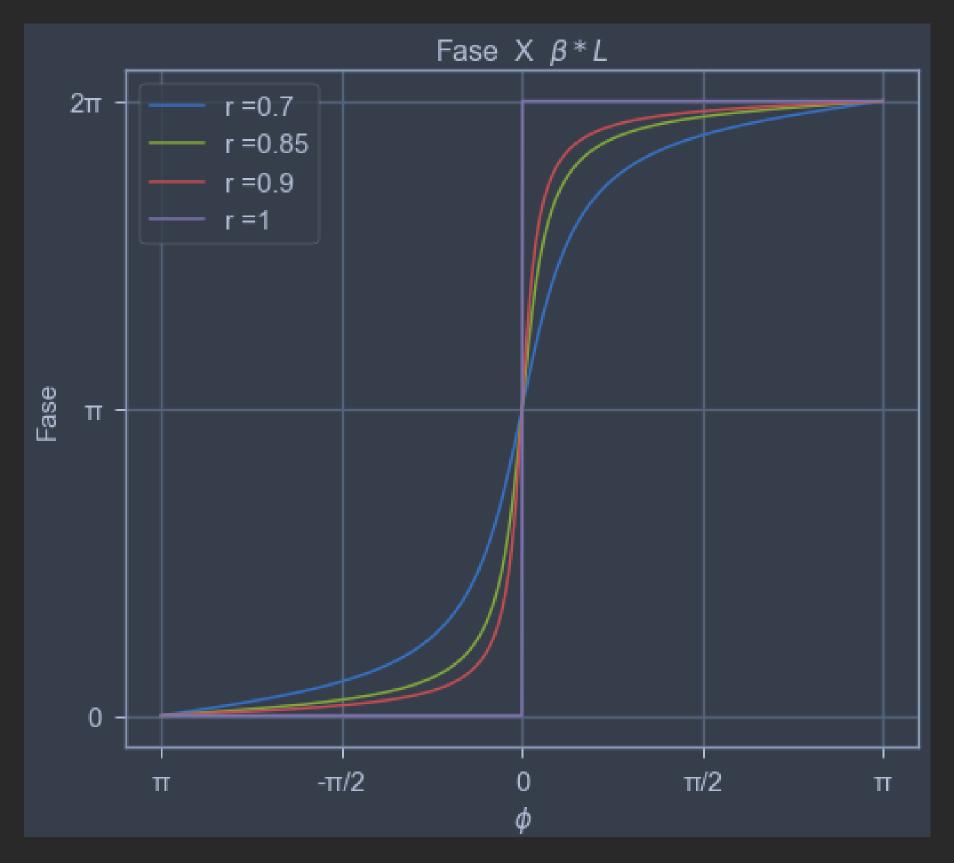
DESIGN ANEL DE RESSONANCIA

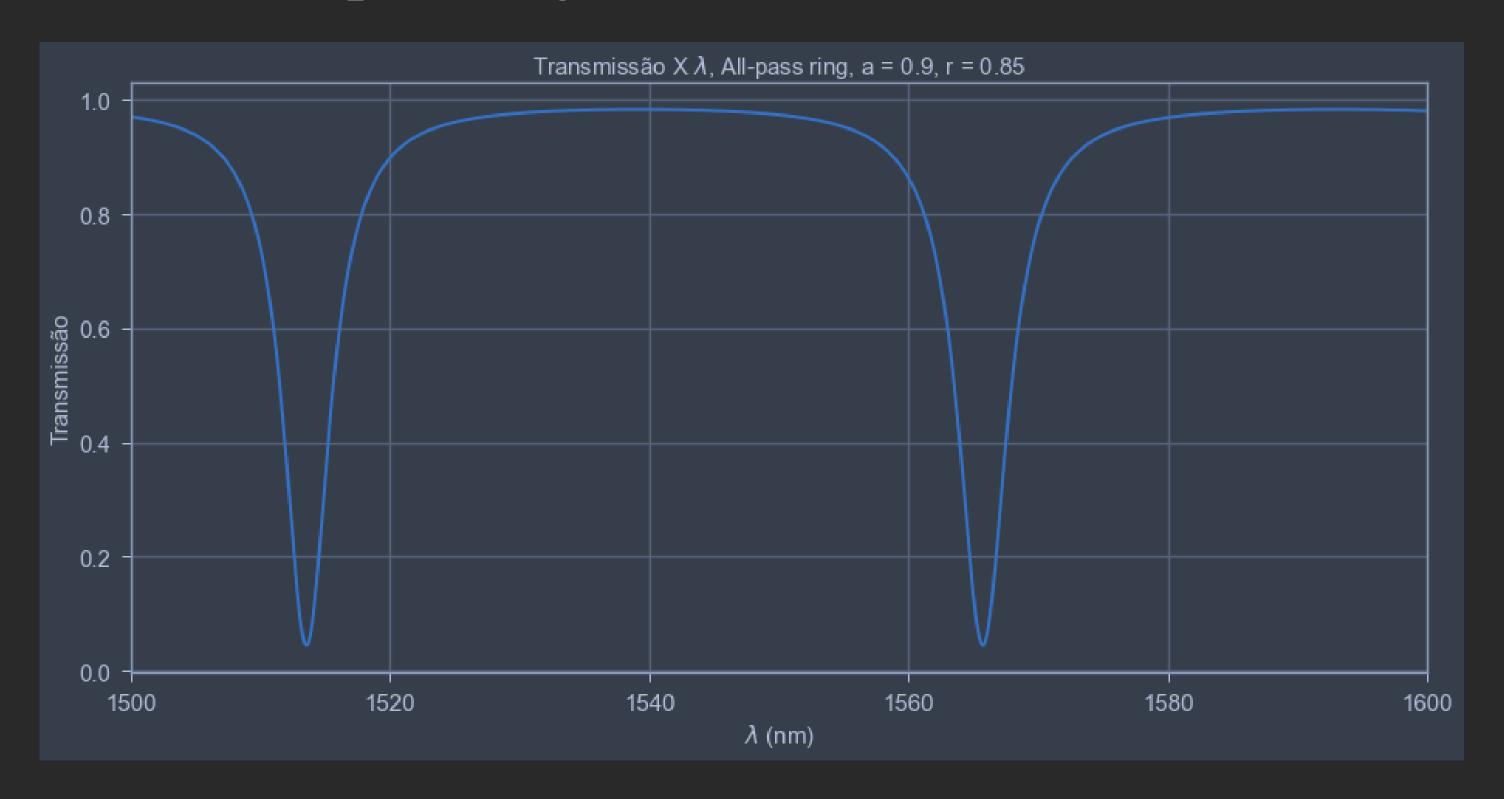
SEMANA 1 E 2

ESTUDO DE REFERENCIAS

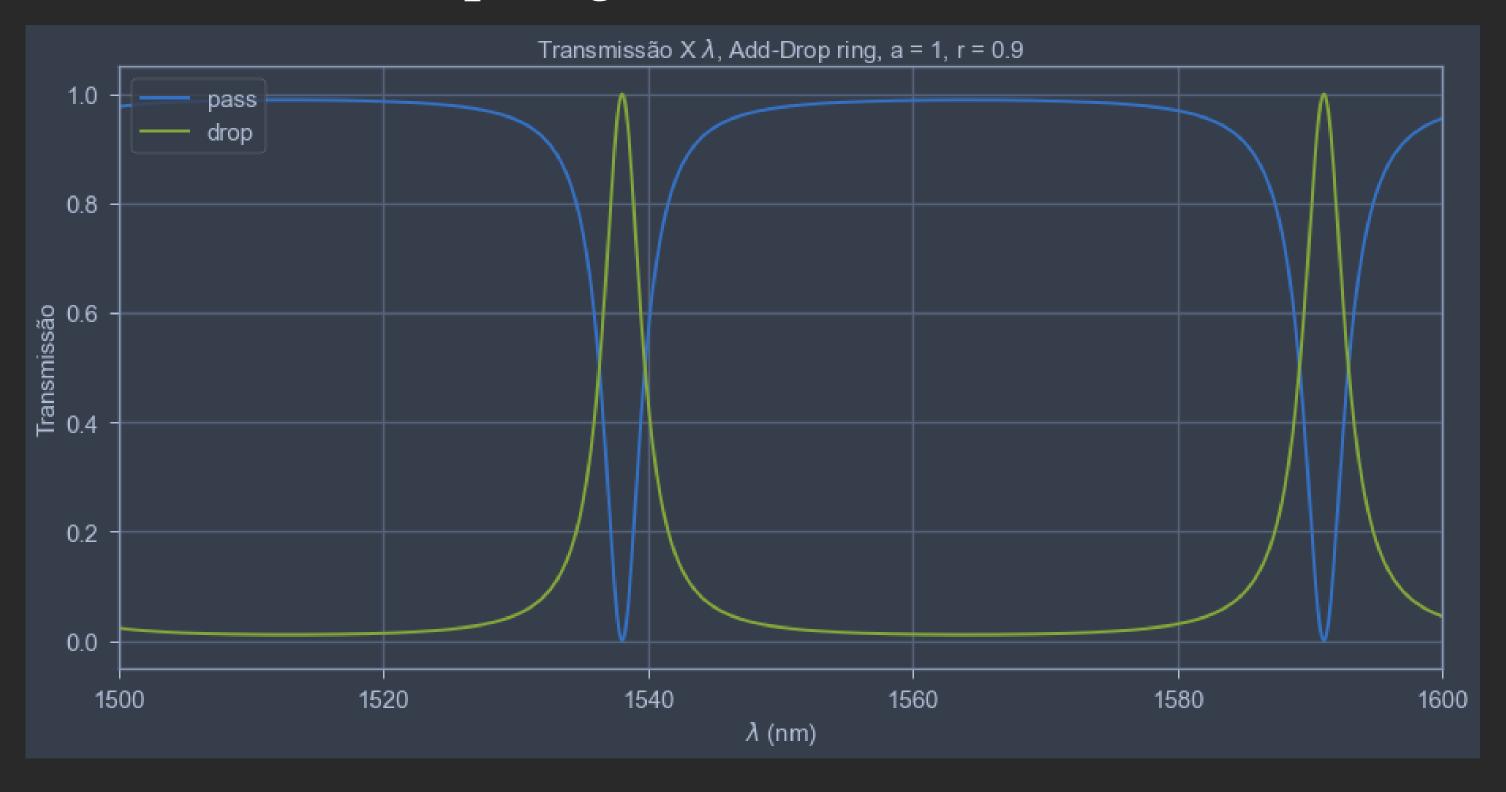
GRÁFICOS TEÓRICOS



GRÁFICOS TEÓRICOS Transmissão All pass ring



GRÁFICOS TEÓRICOS Transmissão Add-drop ring



Especificações

FSR = 27.7 nm

MWHW = 0.88 nm

SOI in SiO2

Guia: 0.45/0.22 um

gap = 150 nm

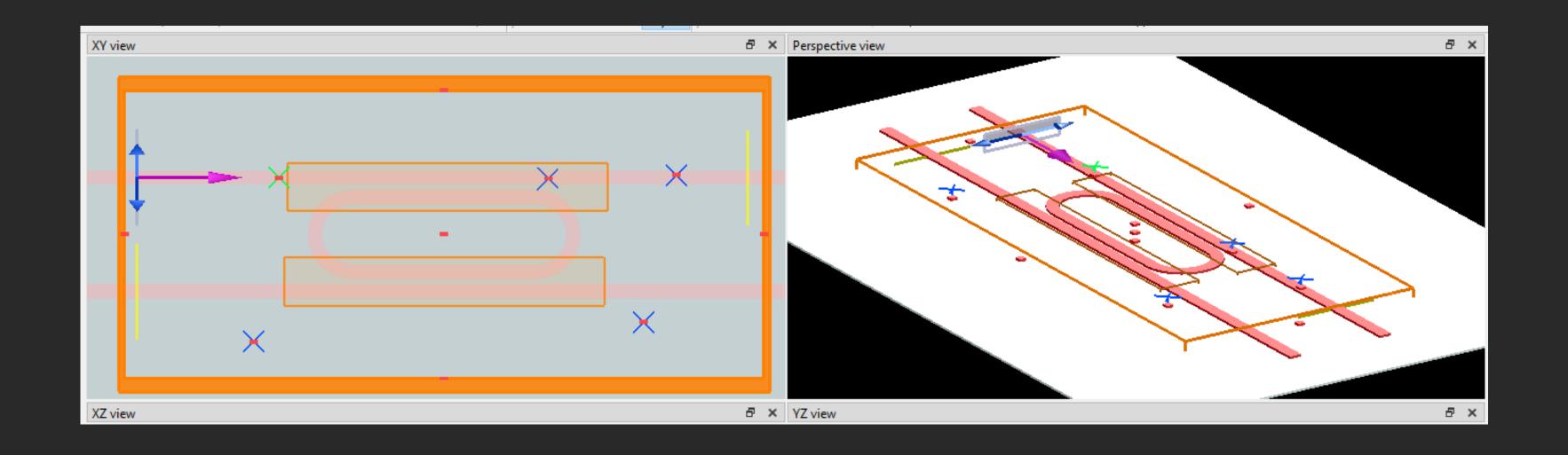
Valores Teóricos

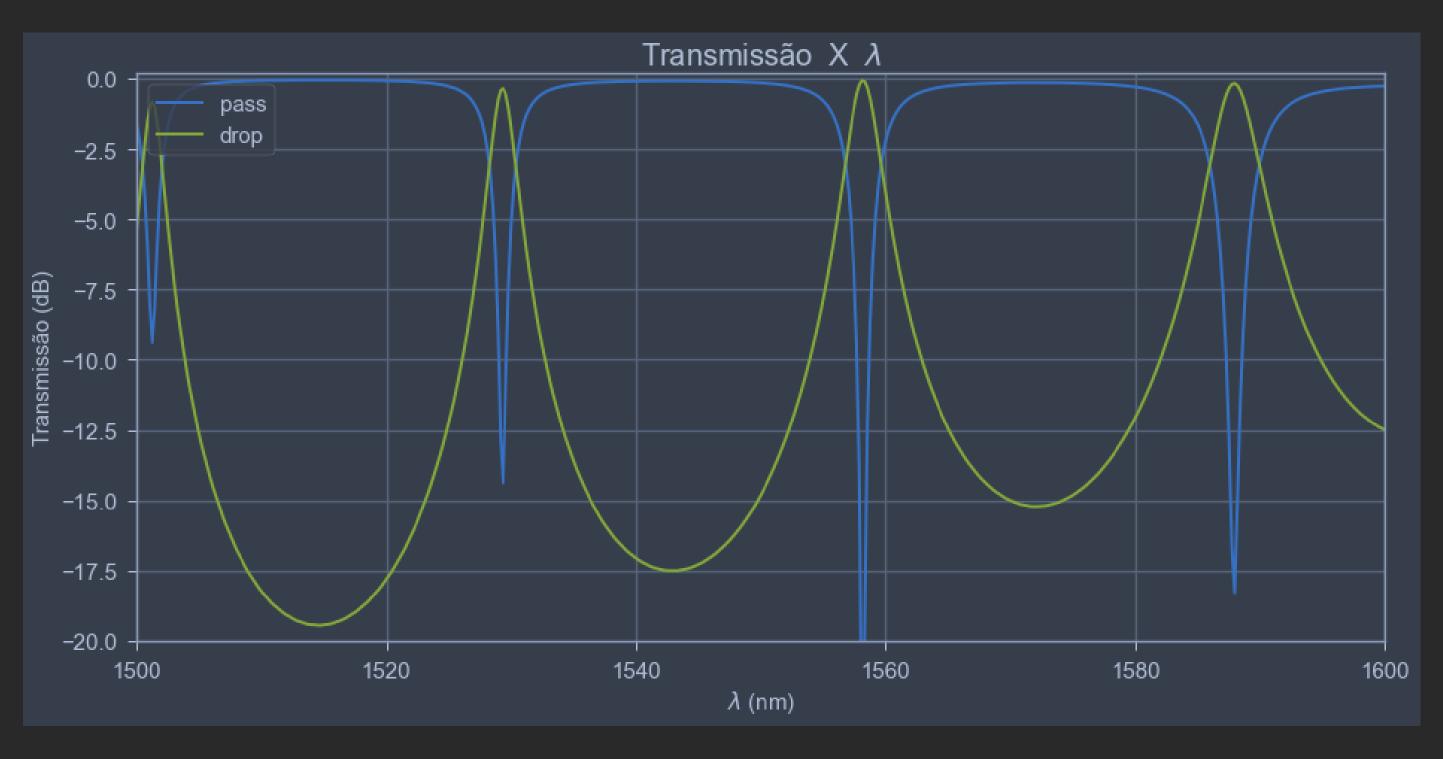
Comprimento total = 18.85 um

Comprimento de acoplamento = 5.74 um

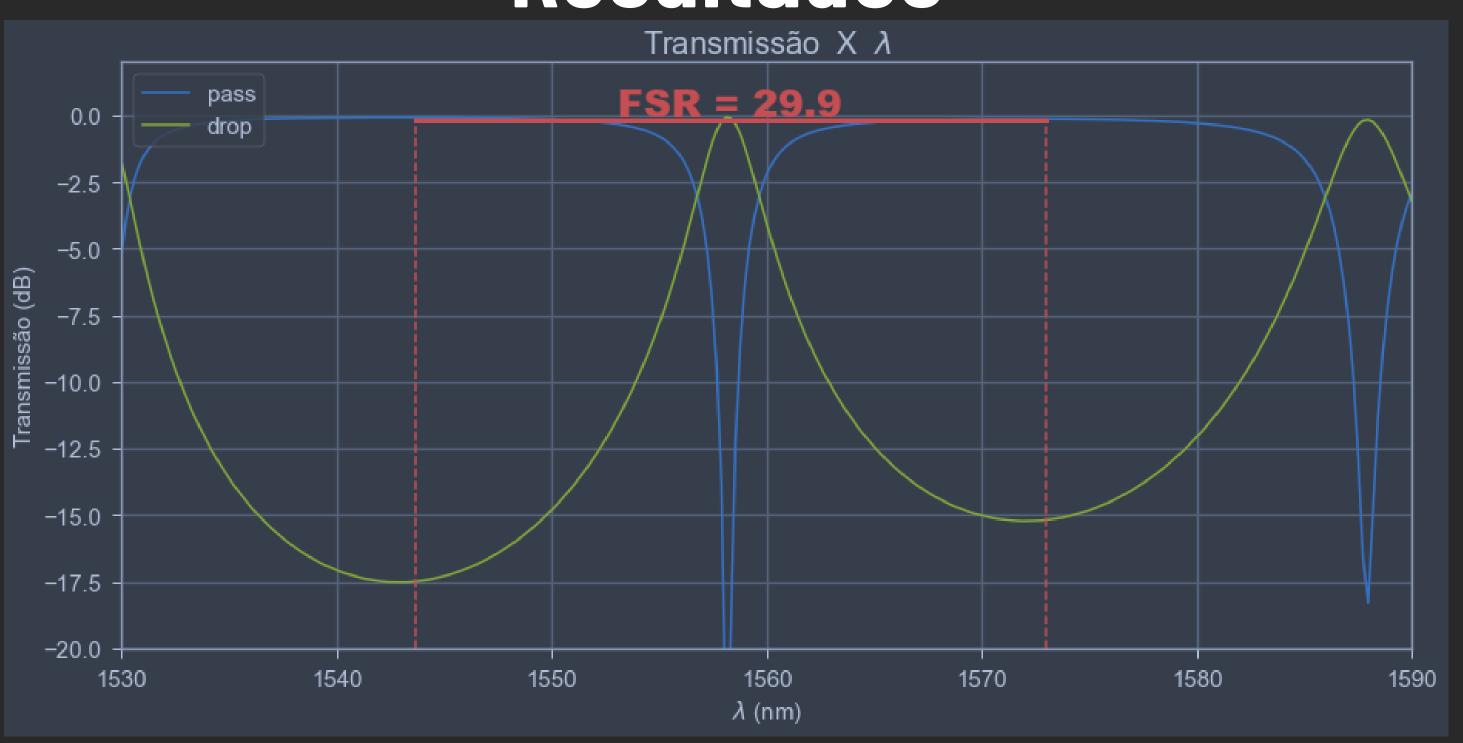
Raio = 1.17 um

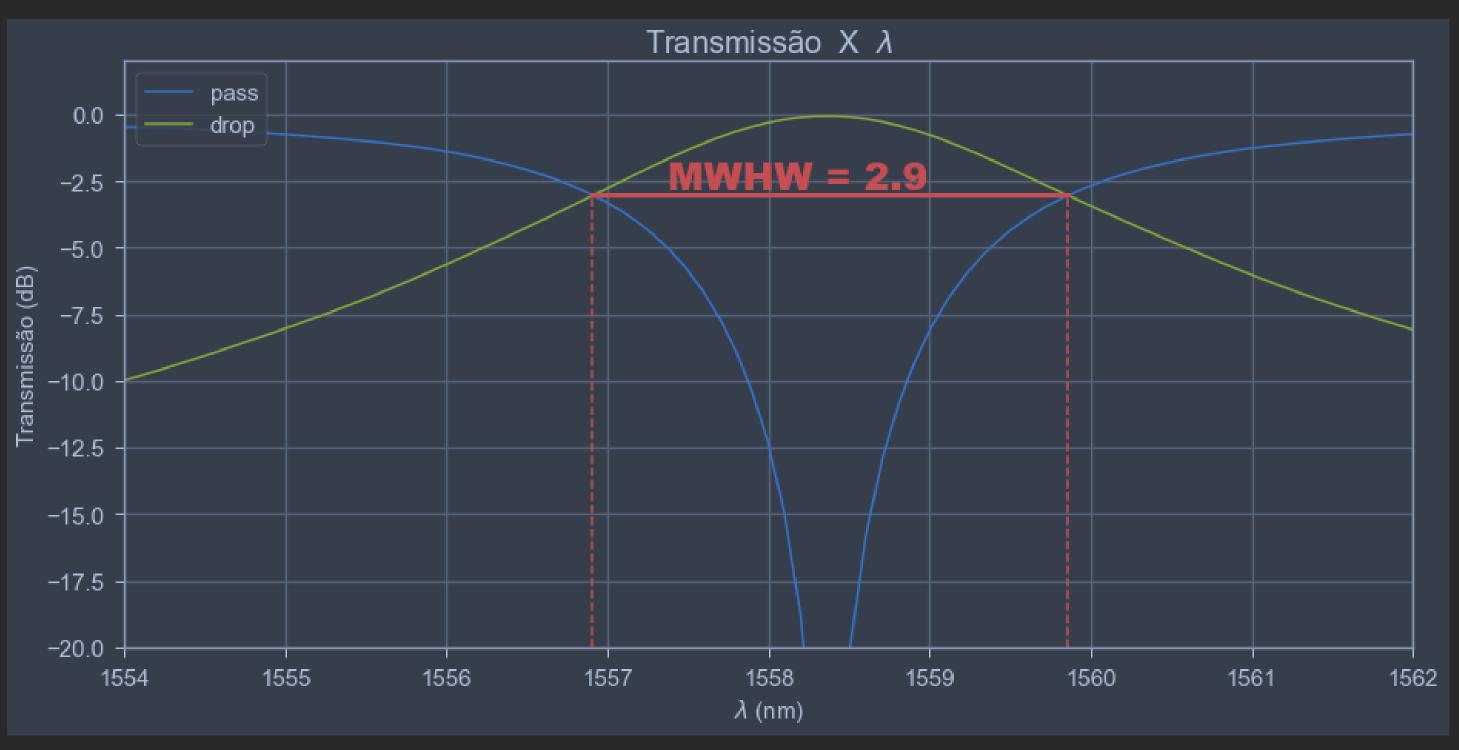
DESIGN DE UM ANEL DE RESSONÂNCIA Simulação



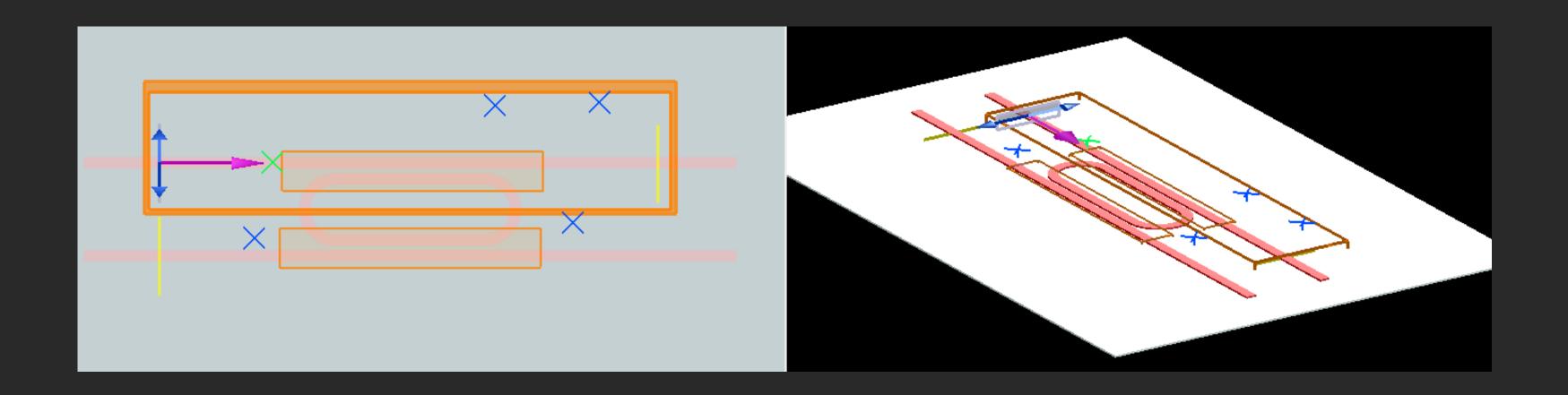








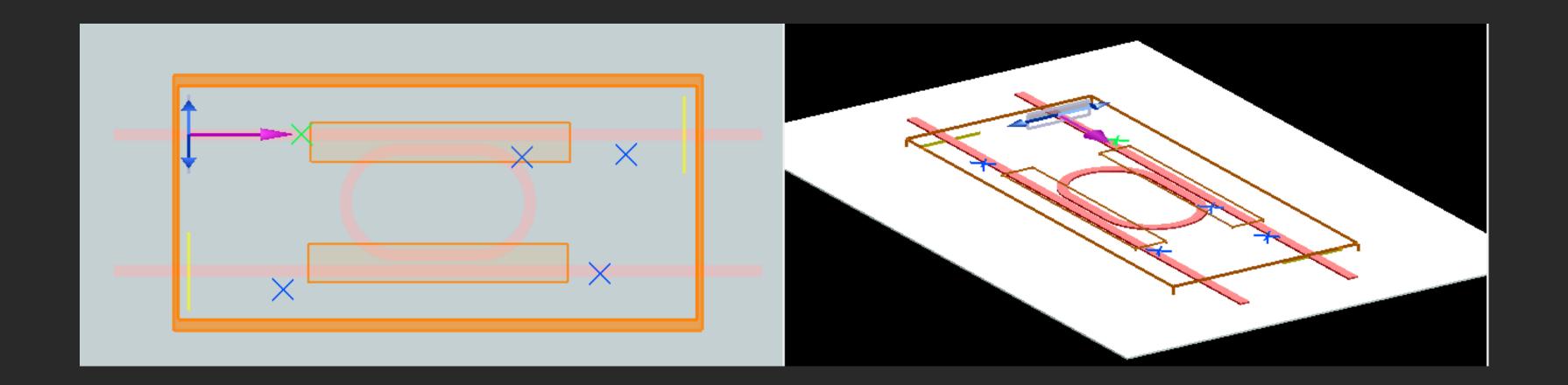
DESIGN DE UM ANEL DE RESSONÂNCIA Sweep comprimento de acoplamento

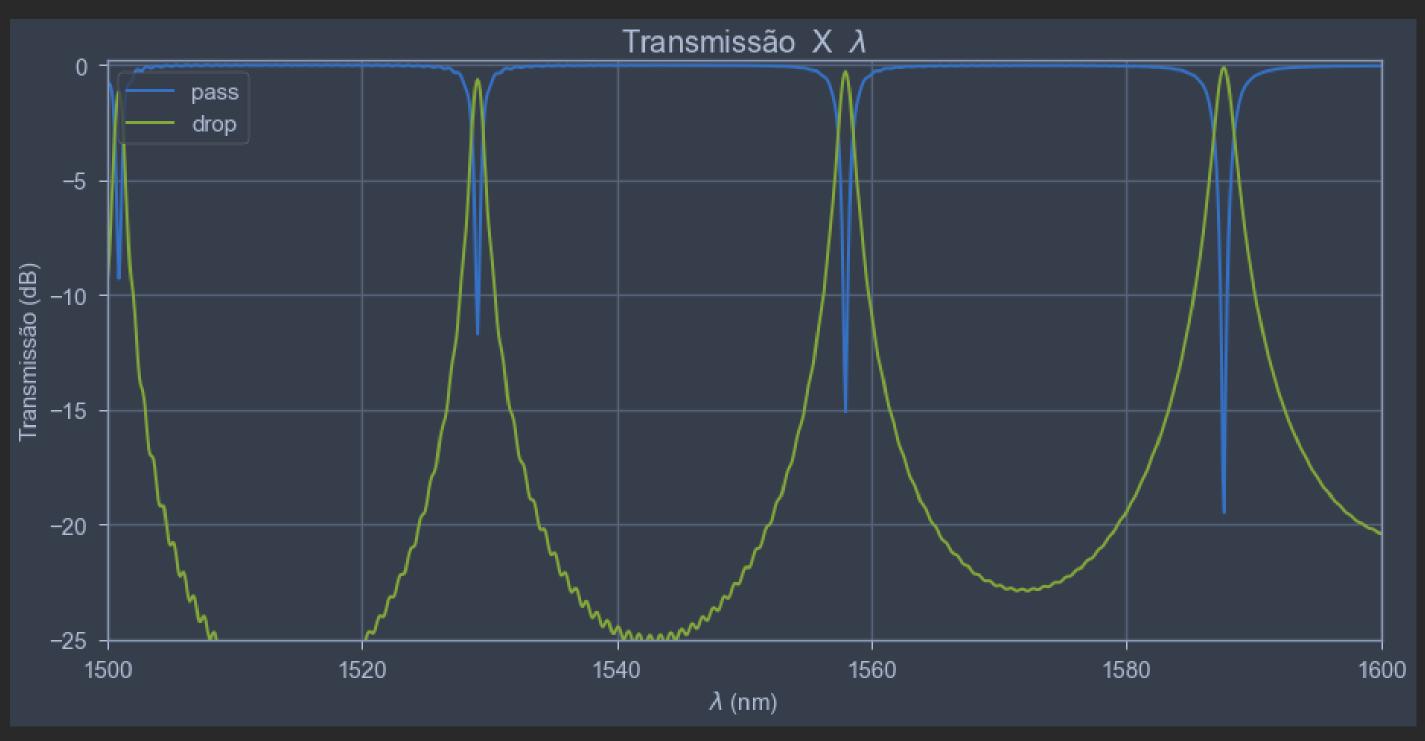


DESIGN DE UM ANEL DE RESSONÂNCIA Sweep comprimento de acoplamento

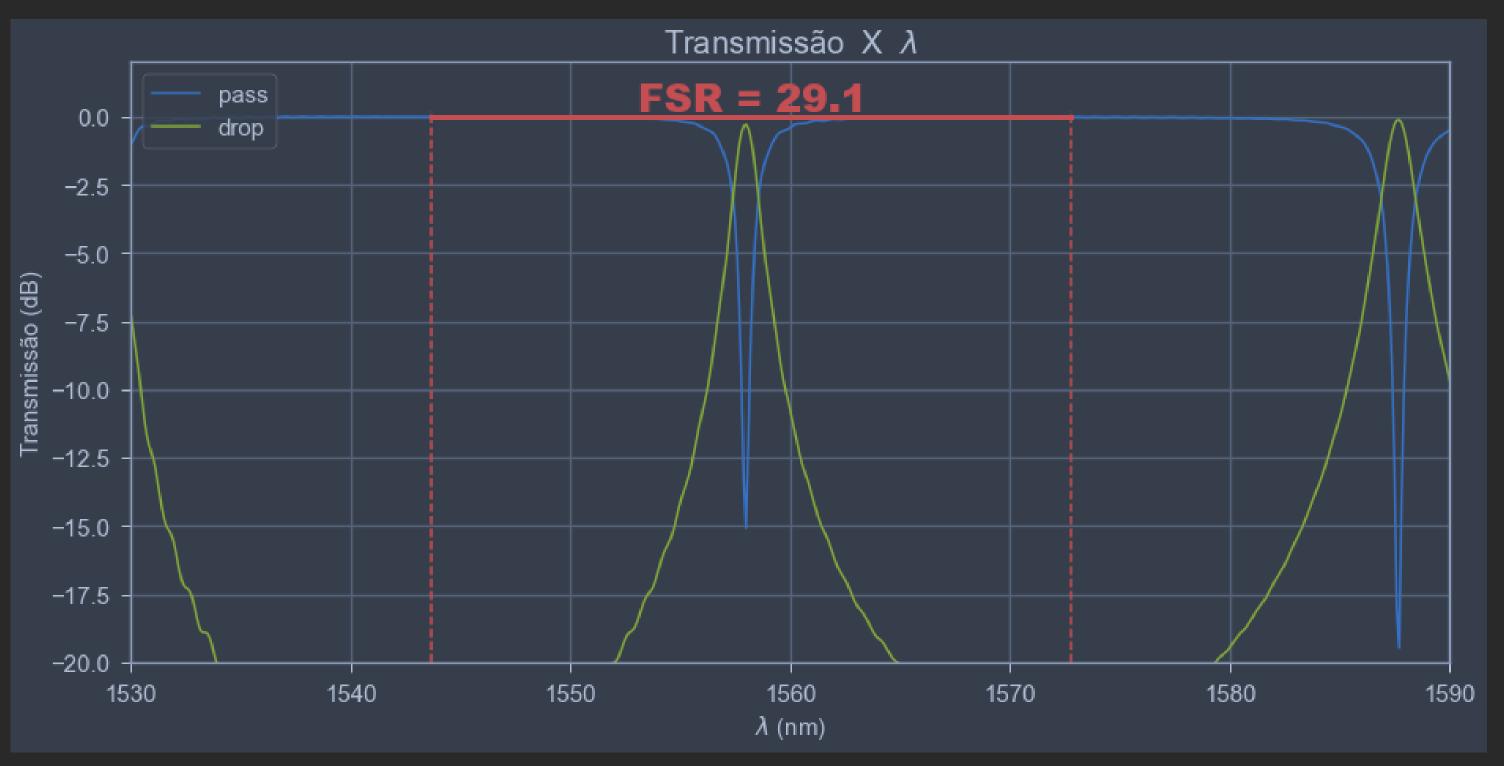


DESIGN DE UM ANEL DE RESSONÂNCIA Usando L acoplamento = 3.0.5 um











SEMANA 3

DESIGN ANEL BANDA C

Especificações Centrado na banda C

FSR = 0.8 nm

MWHW = 0.2 nm

SOI in SiO2

Guia: 0.45/0.22 um

gap = 150 nm

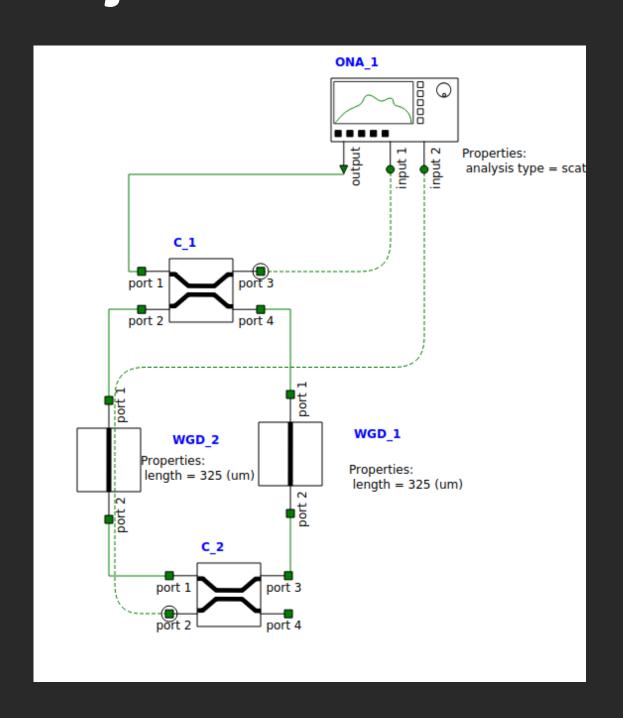
Valores Teóricos

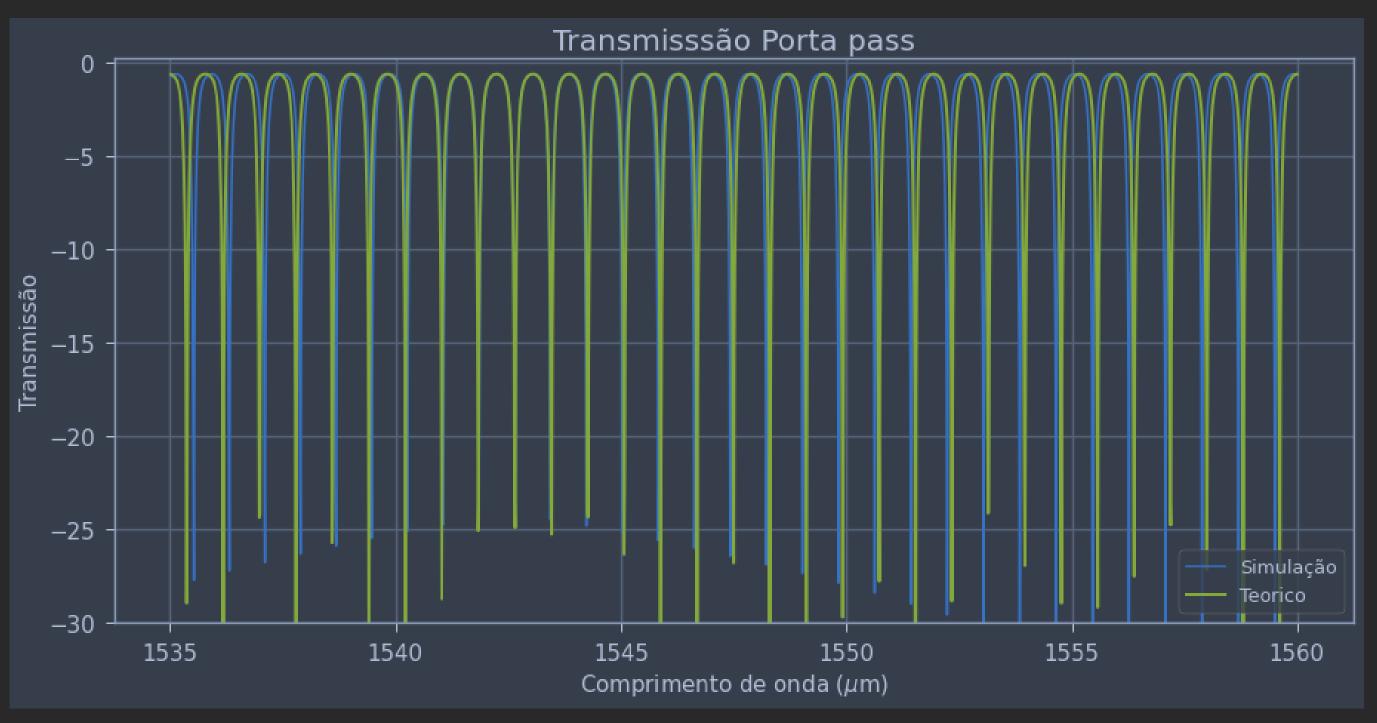
Comprimento total = 650.82 um

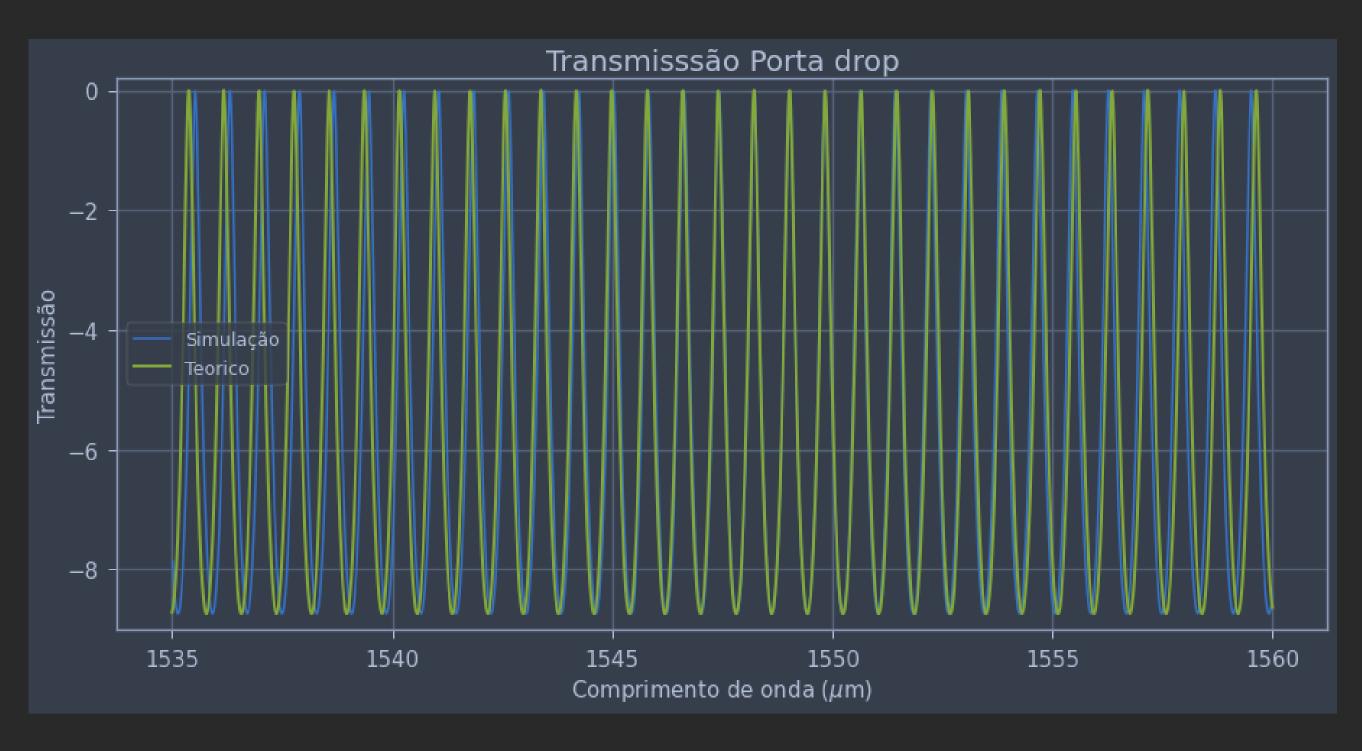
Comprimento de acoplamento = 15.13 um

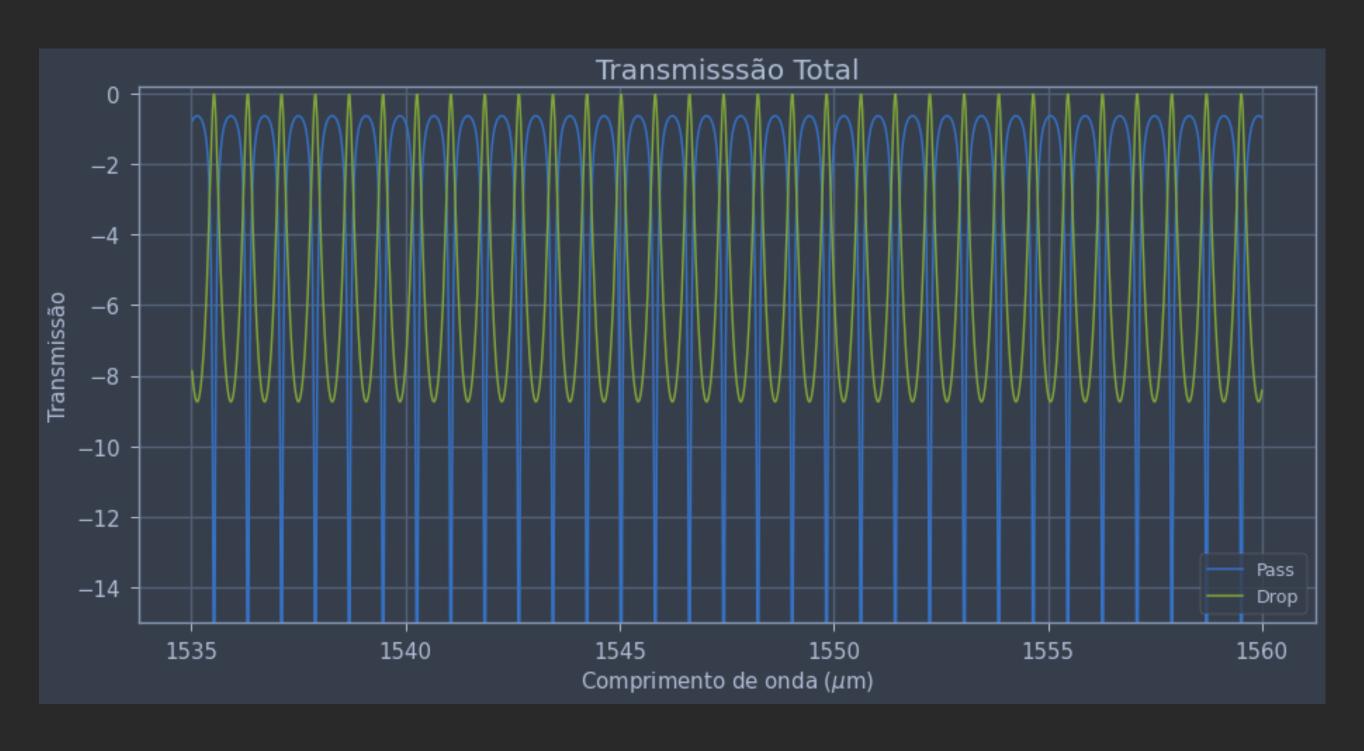
Raio = 98.76 um

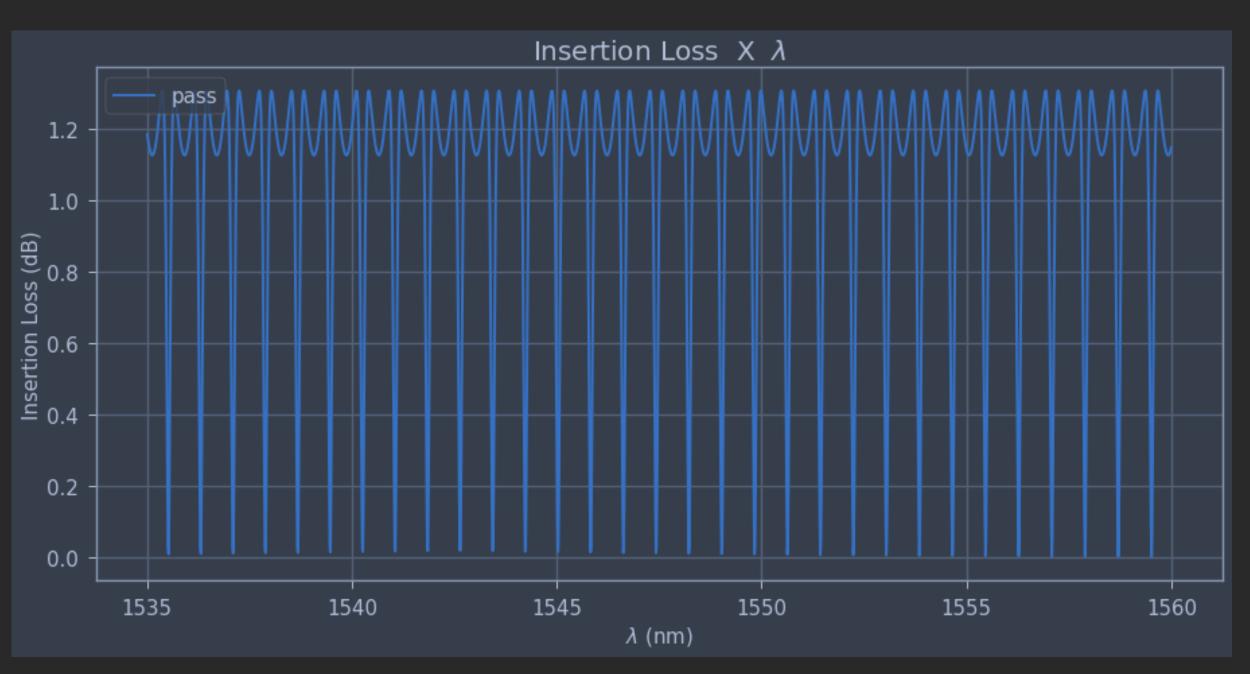
DESIGN DE UM ANEL DE RESSONÂNCIA Simulação no Interconect

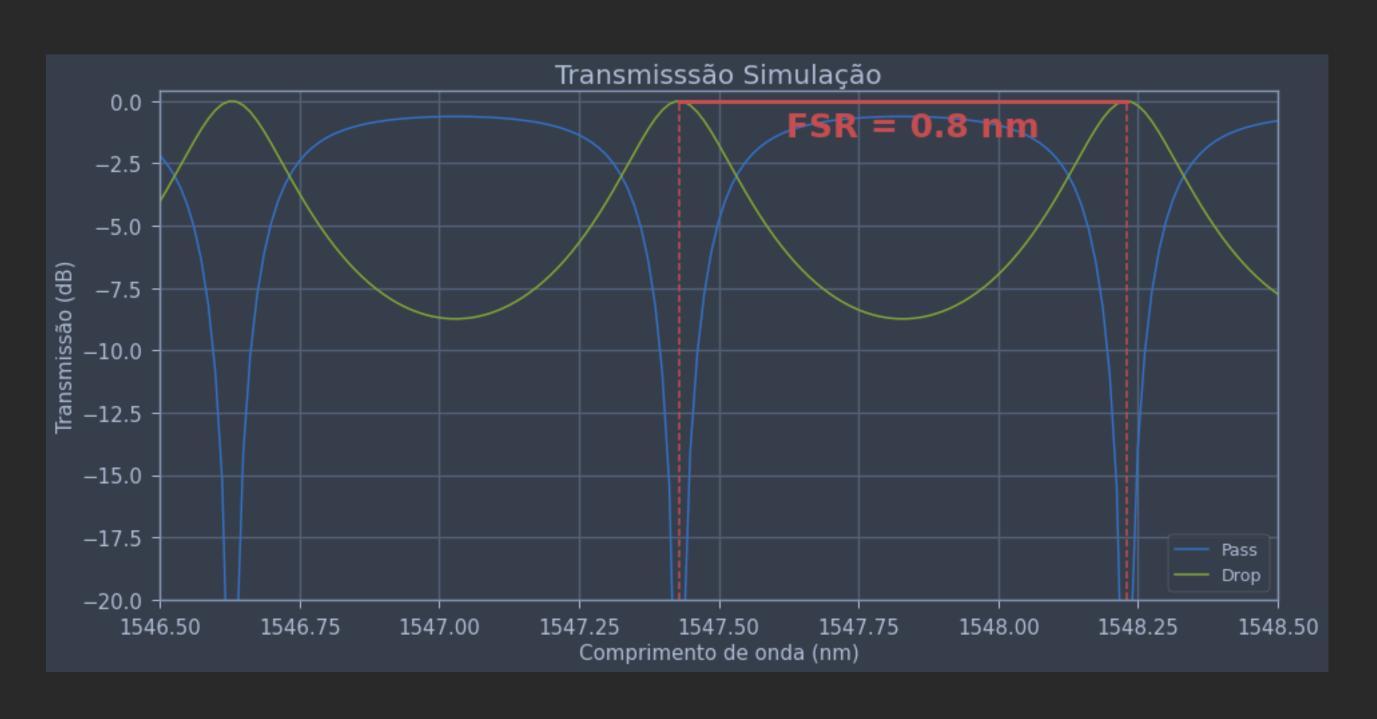


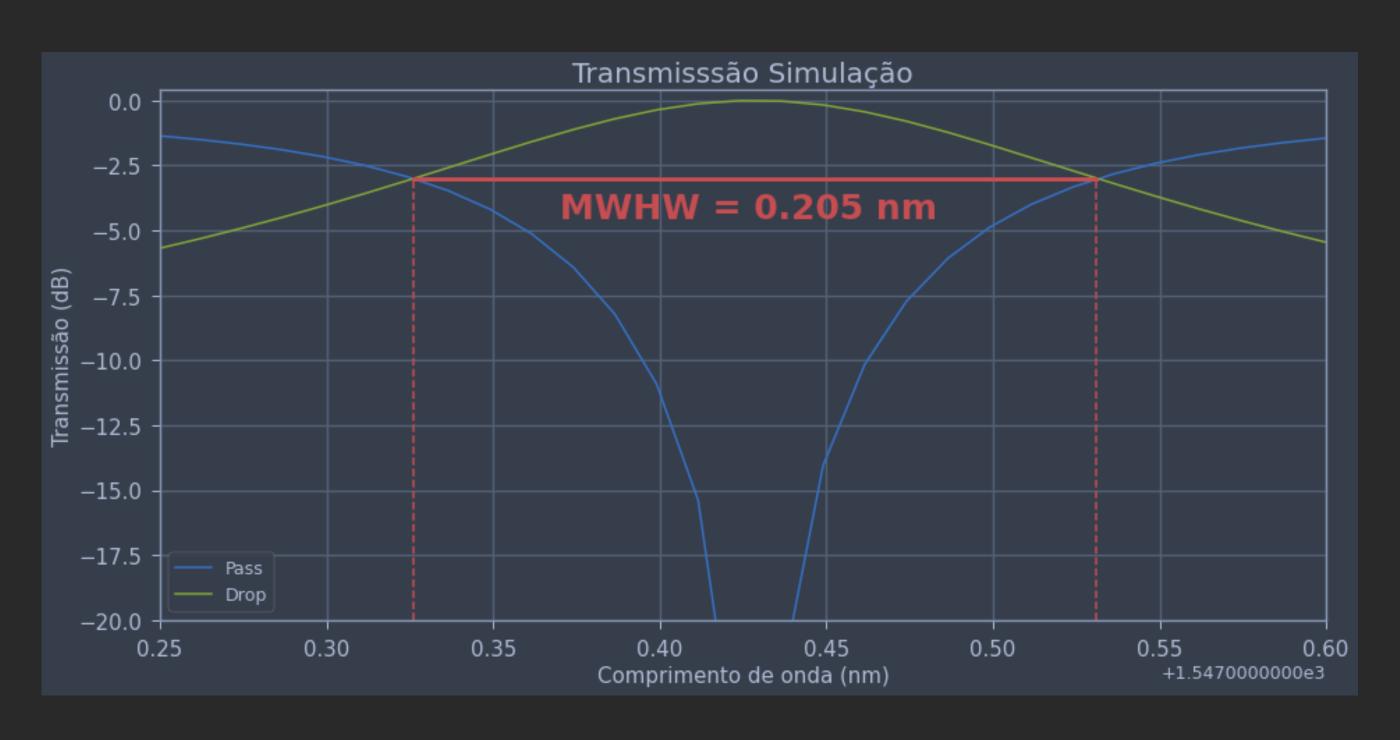


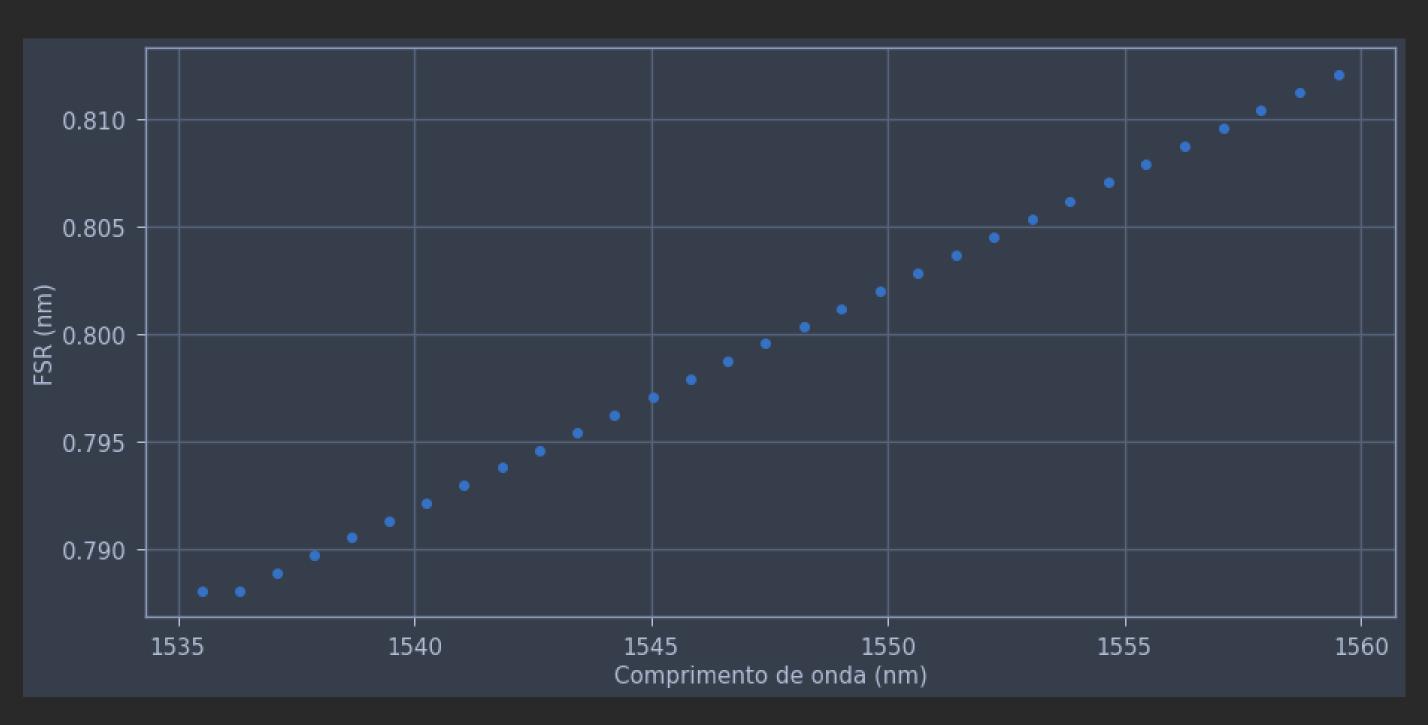


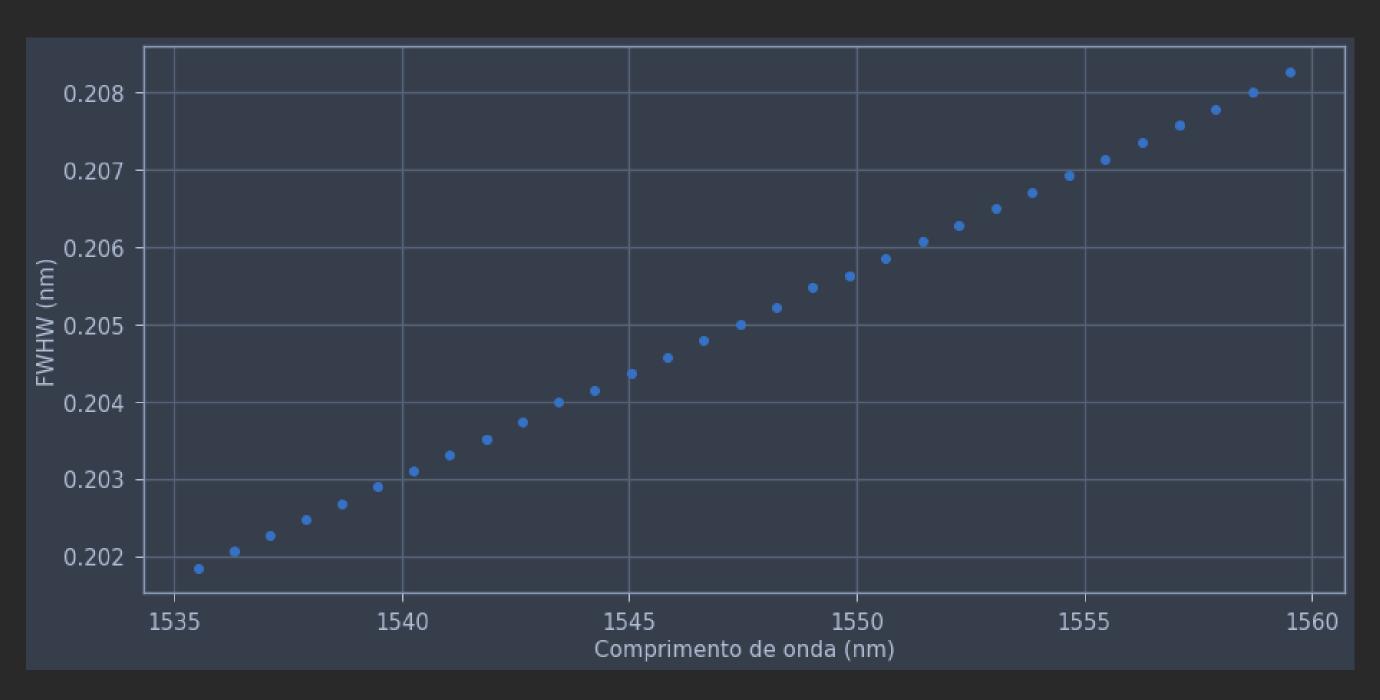


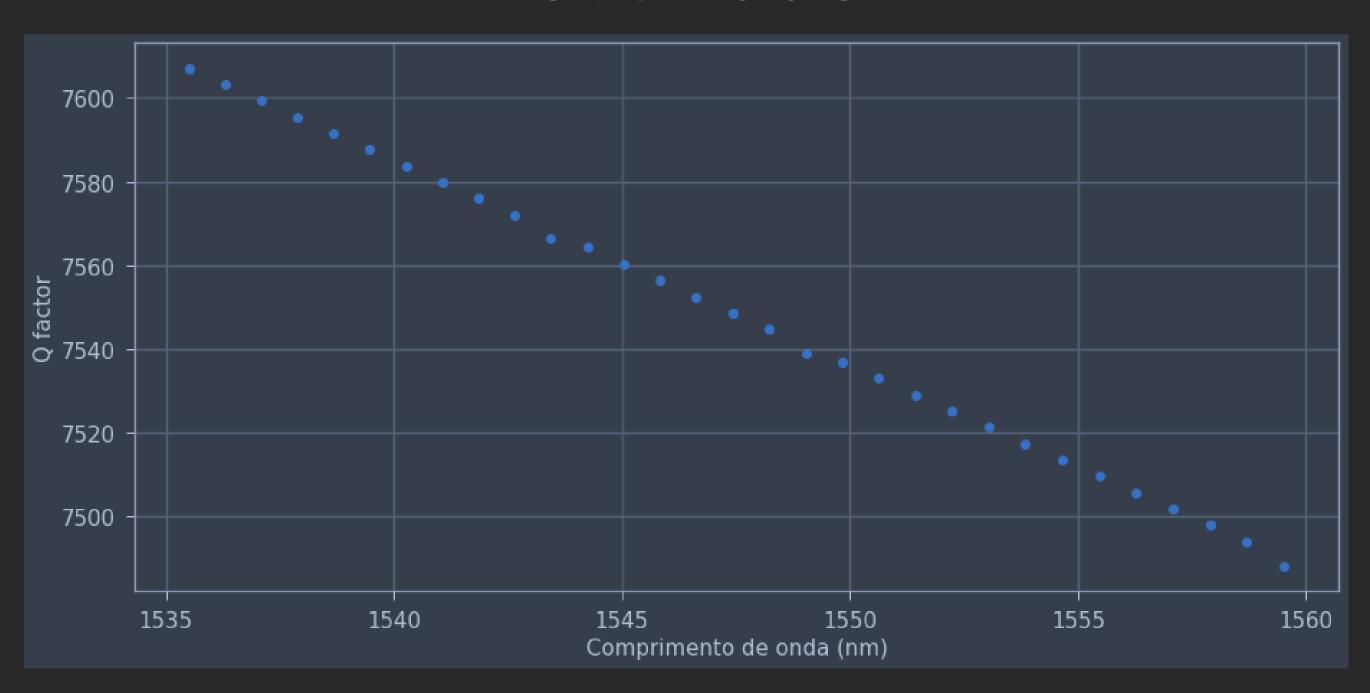


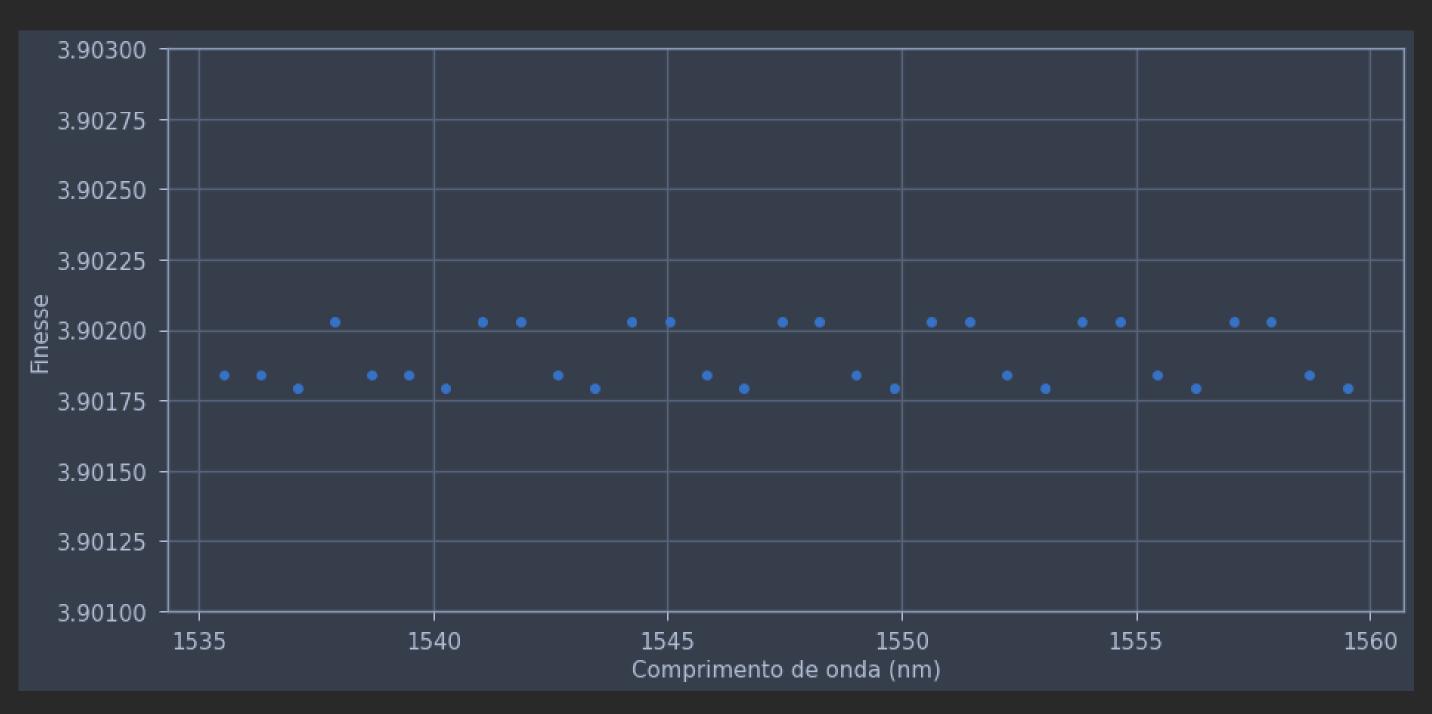












Analise do acoplamento

Solver usado: EME



