# Capacitação em Circuitos Fotônicos em Silício.

Ring Resonator

# WIRTUSCC

Centro de Competência Embrapii em Hardware Inteligente para a Indústria

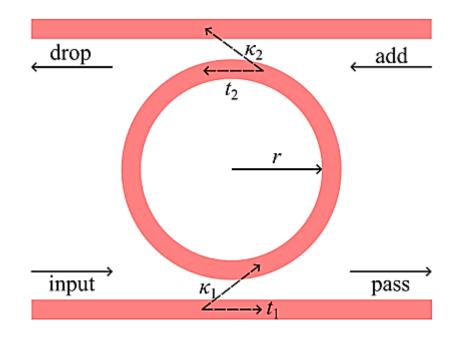
**CURSOS, CAPACITAÇÃO E TREINAMENTOS** 



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#### **Geometria**





#### **Dimensão Importantes:**

Altura =  $0.22\mu m$ 

Largura =  $0.5\mu m$ 

Raio de abertura =  $5\mu$ m

Comprimento do Acoplador =  $14\mu m$ 

#### **FSR = 1nm:**

 $Lr = 552.82 \mu m$ 

 $Lc = 662.82 \mu m$ 

 $Lc_wg = 110.00 \mu m$ 

#### FSR = 10nm:

 $Lr = 552.82 \mu m$ 

 $Lc = 662.82 \mu m$ 

 $Lc_wg = 110.00 \mu m$ 

#### **FSR = 20nm:**

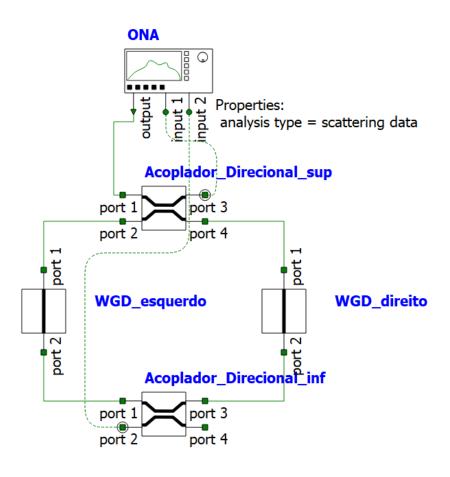
 $Lr = 552.82 \mu m$ 

 $Lc = 662.82 \mu m$ 

 $Lc_wg = 110.00 \mu m$ 

#### **Geometria**

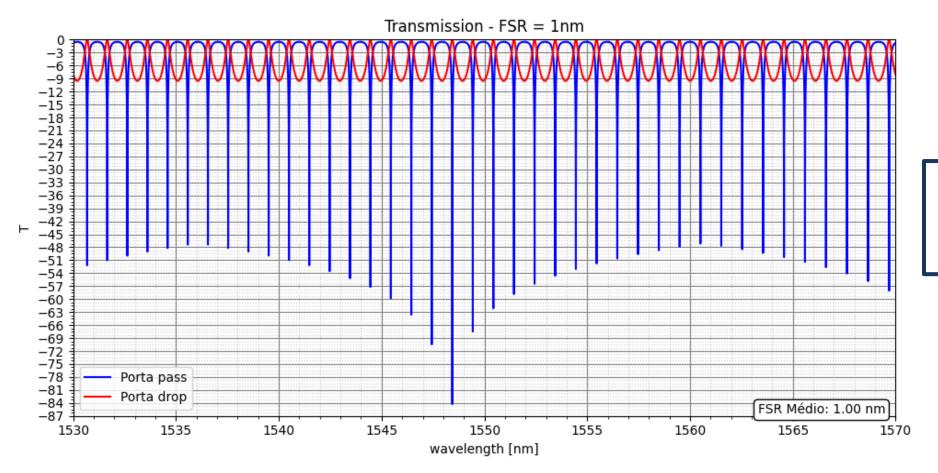




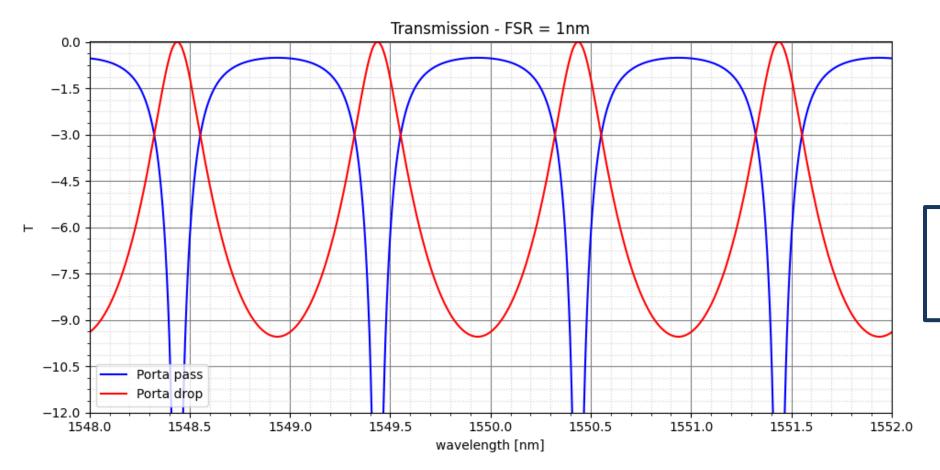
### 1. Transmissão



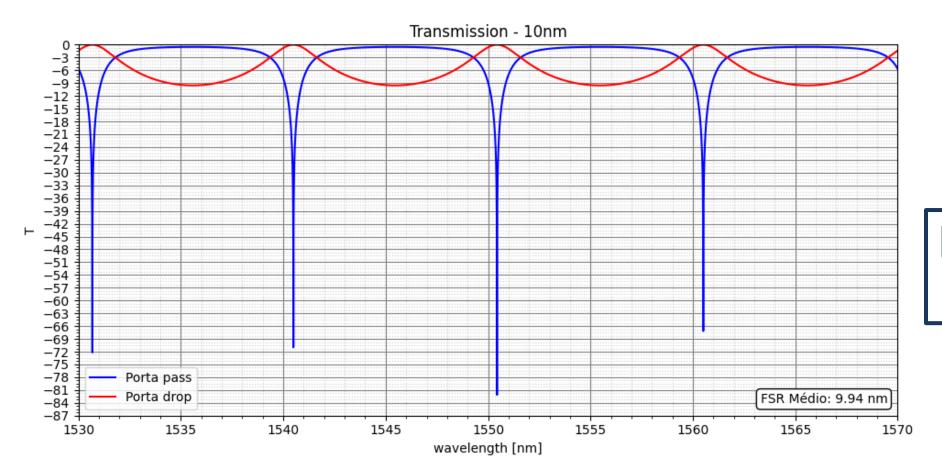




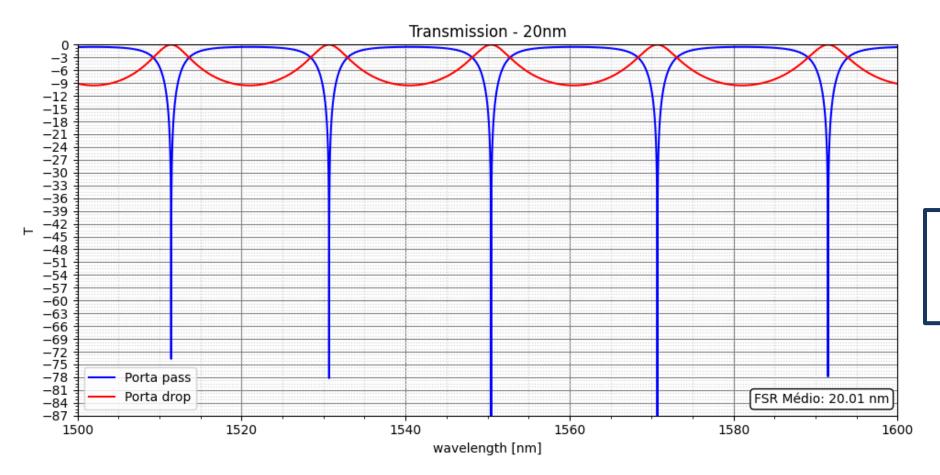




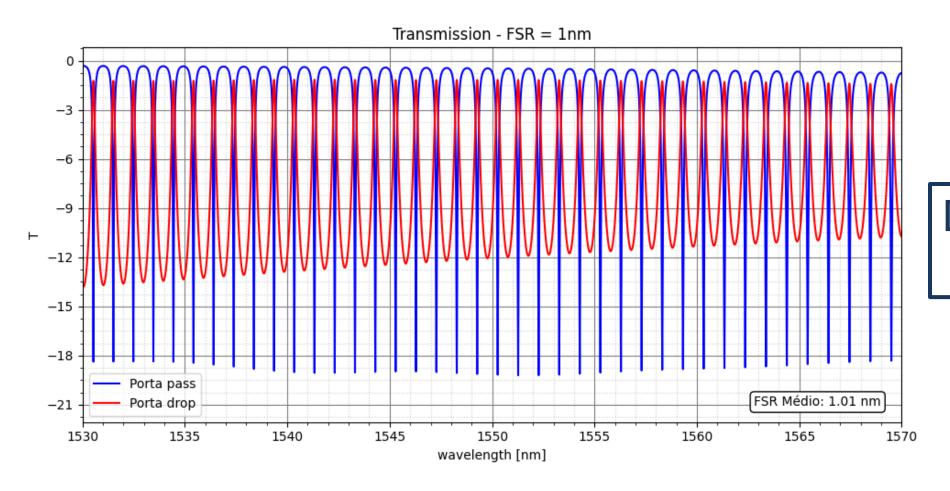




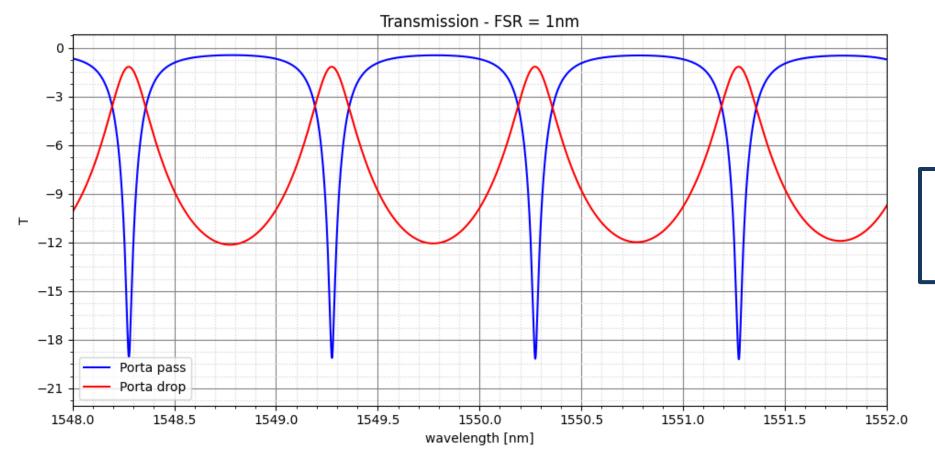




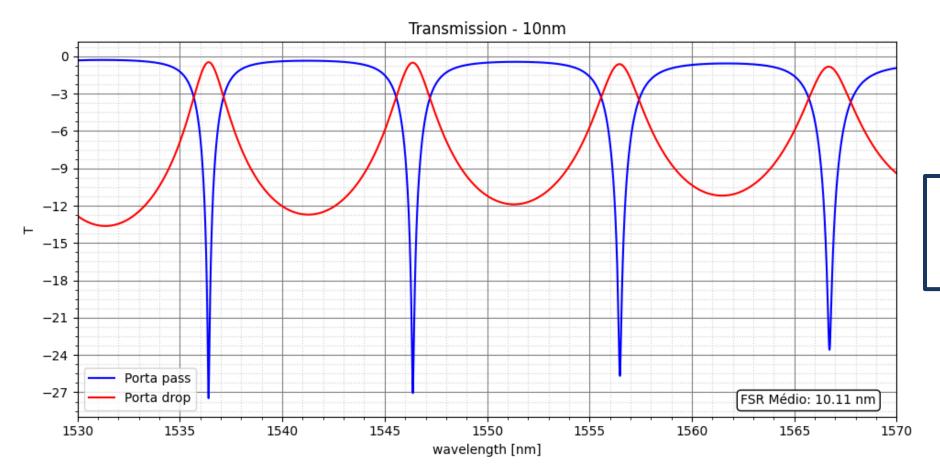






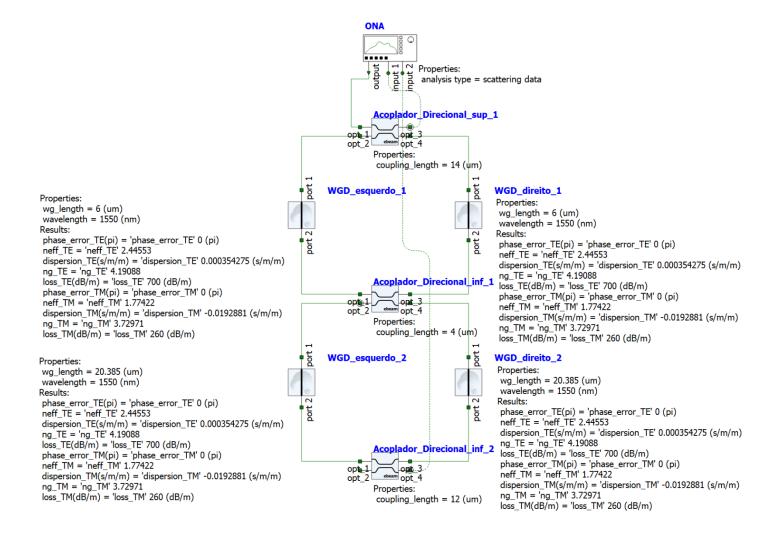




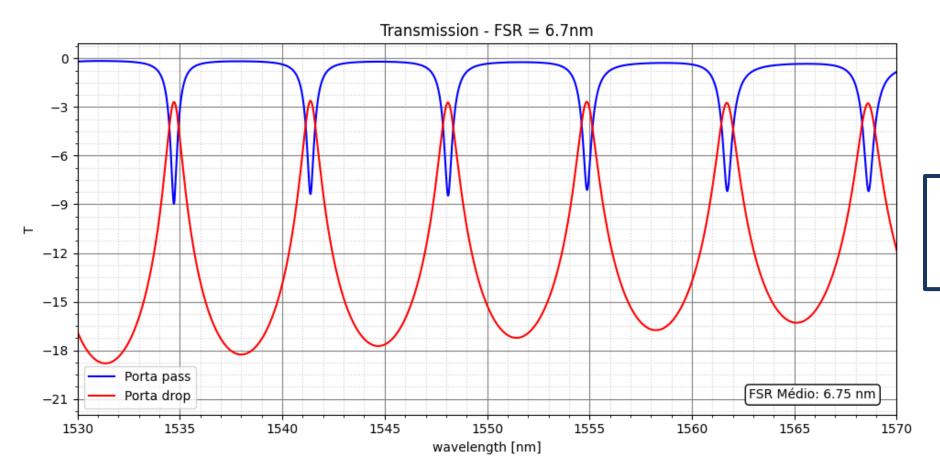


#### **Geometria**

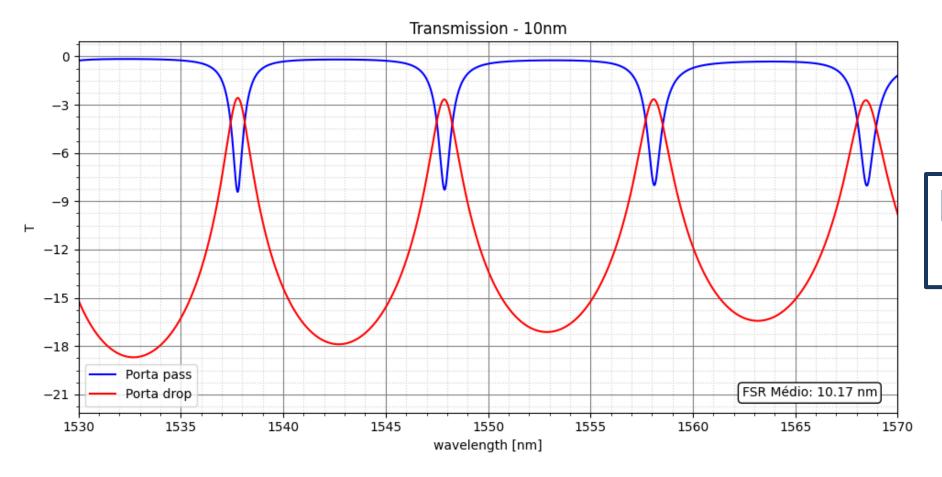




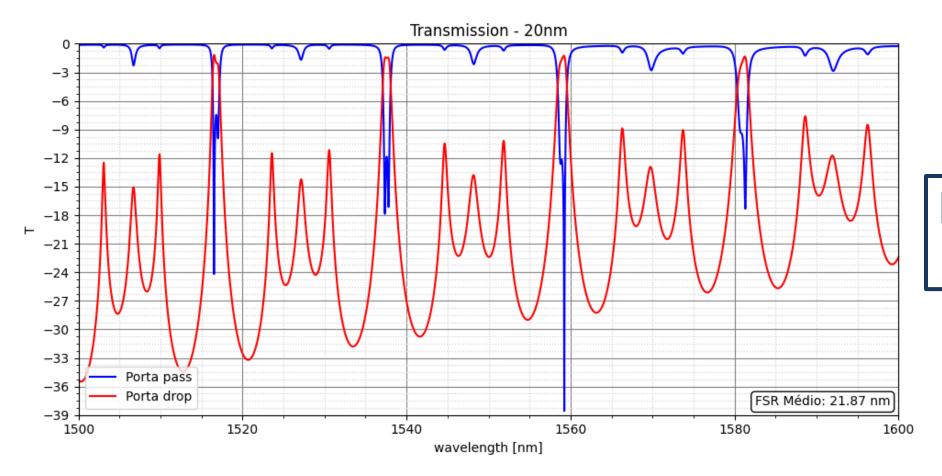












## 2. Free Spectral Range





