

1 Projeto

Projetar um toco de microfitas para 1GHz baseado no exercicio da aula 5.

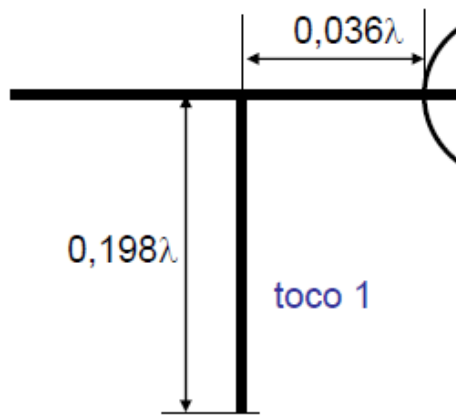


Figura 1: Circuito

Considerar uma carga de $5 + j3,5 \Omega$

2 Determinando o L

Como as medidas já foram dadas, e $\lambda = 360\text{graus}$, então:

Para $0,036\lambda = 12,96\text{graus}$:

Para $0,198\lambda = 71,28\text{graus}$:

Colocando os valores no diagrama:

3 Simulação

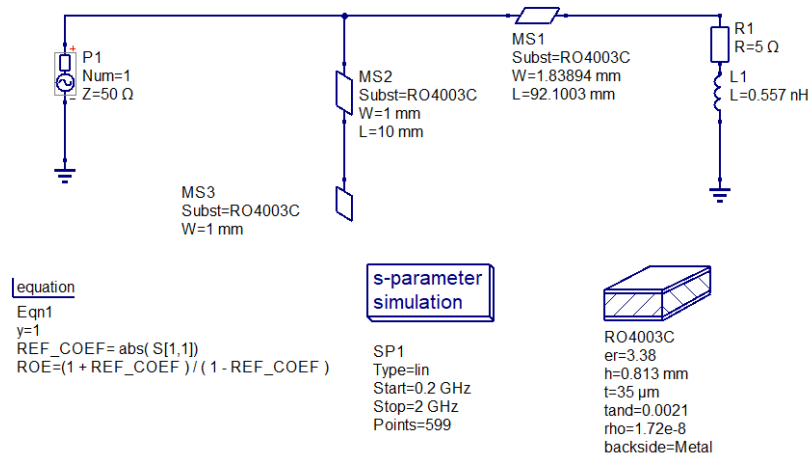


Figura 2: Diagrama disponibilizado

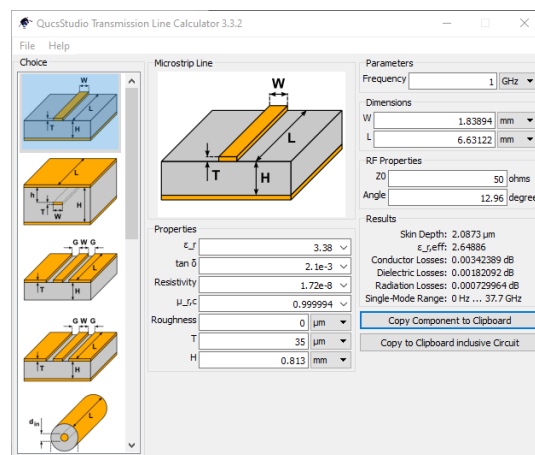


Figura 3: Calculadora QucsStudio

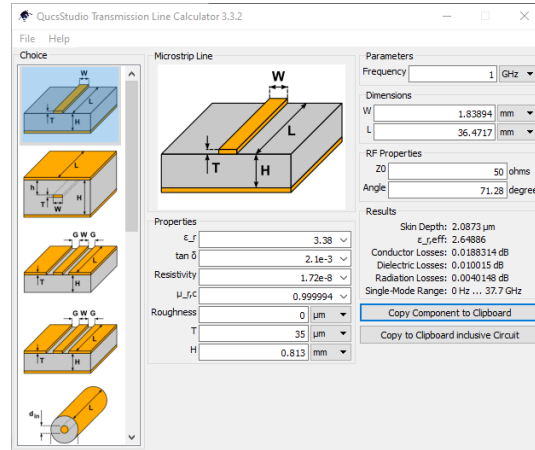


Figura 4: Calculadora QucsStudio

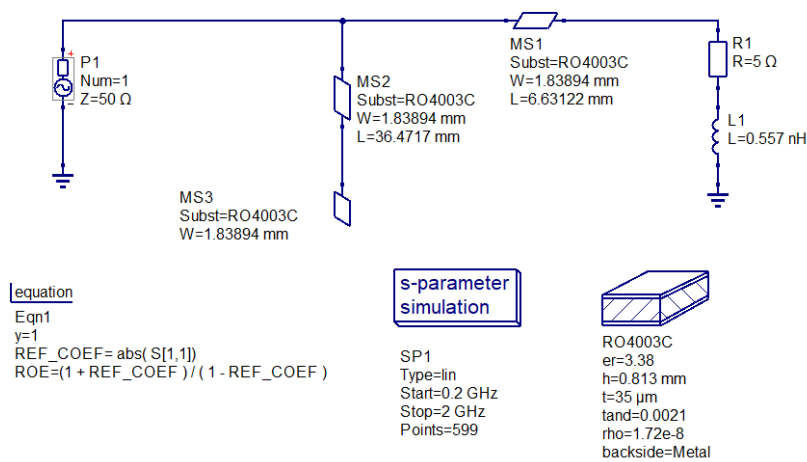


Figura 5: Diagrama final

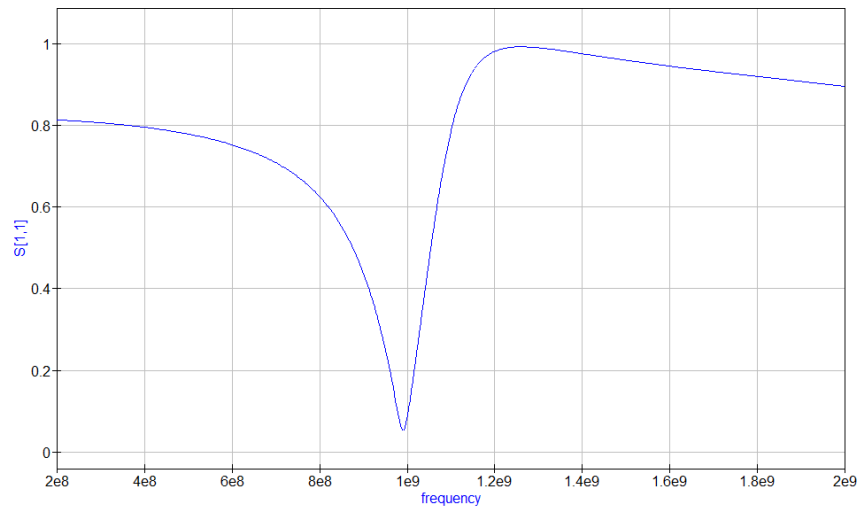


Figura 6: Parametro $S[1, 1]$

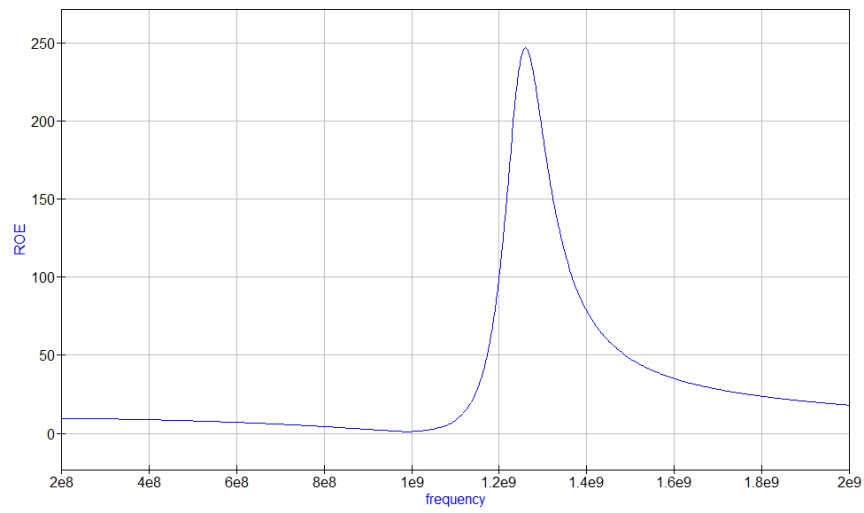


Figura 7: ROE