

Equation
Eqn4
 $L1=8.93m$

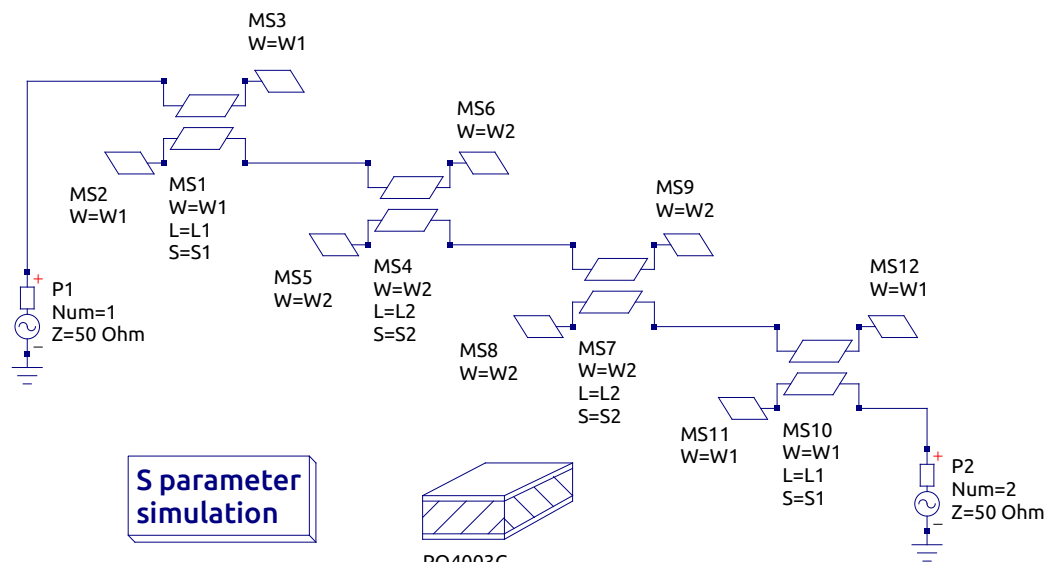
Equation
Eqn8
 $S1=103.000u$

Equation
Eqn11
 $W1=760u$

Equation
Eqn5
 $L2=8.78m$

Equation
Eqn10
 $S2=510u$

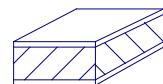
Equation
Eqn12
 $W2=1.08m$



S parameter simulation

SP1
Type=lin
Start=4.25GHz
Stop=5.75GHz
Points=300

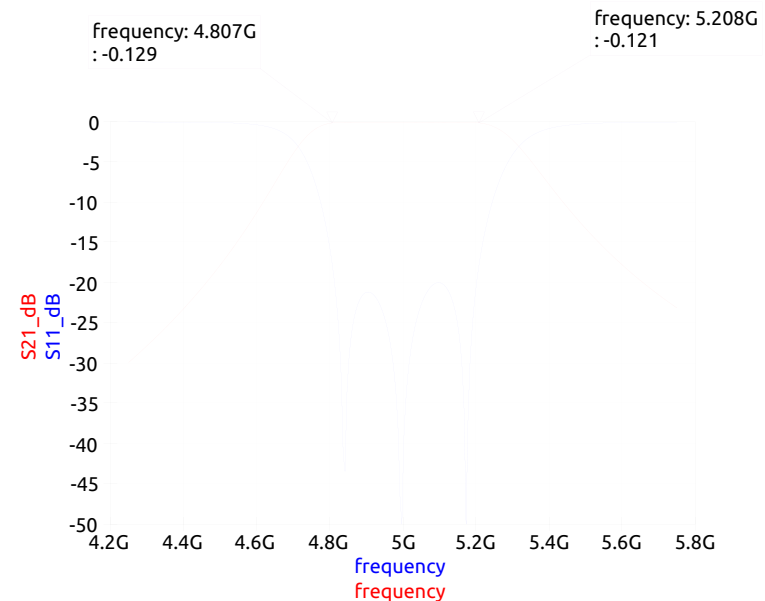
Coupled-line bandpass filter
Chebyshev 4.75GHz...5.25GHz
Impedance matching 50 Ohm



RO4003C
 $\epsilon_r=3.55$
 $h=508um$
 $t=32um$
 $\tan\delta=0$
 $\rho=1e-10$
 $D=0$

Equation

Eqn7
 $S21_dB=dB(S[2,1])$
 $S11_dB=dB(S[1,1])$



QW Line Coupled BPF fc = 5 GHz	
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