MS1
W1=0.9337m
W2=0.9337m
S=308.3u

MS2
W1=0.9337m
L=19.93m

MS3
W1=0.9337m
W2=0.9337m
S=1.409m

MS4
W1=0.9337m
L=19.93m

MS5
W1=0.9337m
W2=0.9337m
S=308.3u

P1
Num=1
Z=50 Ohm

P2
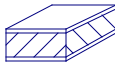Num=2
Z=50 Ohm

S-Parameter Simulation

SP1
Type=lin
Start=1GHz
Stop=6GHz
Points=1000

Subst1
er=4.5
h=500um
t=12.5um
tand=0
rho=1e-10
D=0

end-coupled, half-wavelength bandpass filter
Butterworth 4GHz...4.001GHz
impedance matching 50 Ohm

Gleichung

Eqn1
S21_dB=dB(S[2,1])
S11_dB=dB(S[1,1])