Equation
Eqn4
L1=8.920m

Equation
Eqn8
S1=564.954u

Equation
Eqn11
W1=0.930m

Equation
Eqn13
L0=1.750m

Equation
Eqn14
Lstub=7.101m

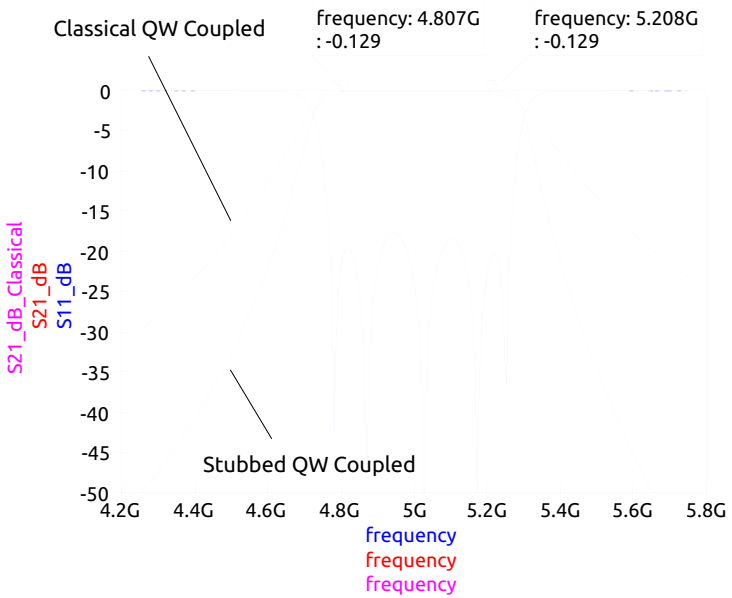
Equation
Eqn16
W_Z0=1.1m

Equation
Eqn5
L2=8.720m

Equation
Eqn10
S2=631.404u

Equation
Eqn12
W2=1.270m

Equation
Eqn15
Wstub=701.000u



MS16
W=Wstub

MS15
W=Wstub
L=Lstub

P4
Num=4
Z=50 Ohm

Classical_QW_Coupled_Line_BPF1

P3
Num=3
Z=50 Ohm

MS3
W=W1

MS22
W=W_Z0
L=25.4mm

MS14
W=W1
L=L0

MS23

MS13
W=W1
L=L0

MS2
W=W1

MS1
W=W1
L=L1
S=S1

MS6
W=W2

MS5
W=W2

MS4
W=W2
L=L2
S=S2

MS9
W=W2

MS8
W=W2

MS7
W=W2
L=L2
S=S2

MS12
W=W1

MS11
W=W1

MS10
W=W1
L=L1
S=S1

MS26

MS18
W=W1
L=L0

MS17
W=W1
L=L0

MS21
W=W_Z0
L=25.4mm

MS27
W=Wstub
L=Lstub

MS28
W=Wstub

P1
Num=1
Z=50 Ohm

P2
Num=2
Z=50 Ohm

S parameter simulation

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

RO4003C
er=3.55
h=508um
t=32um
tand=0
rho=1e-10
D=0

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

Equation
Eqn23
S21_dB_Classical=dB(S[4,3])
S11_dB_Classical=dB(S[3,3])

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

QW Line Coupled BPF w/ stubs 5 GHz	
Drawn By: Andrés Martínez Mera	
Date: 28/03/24	Revision: