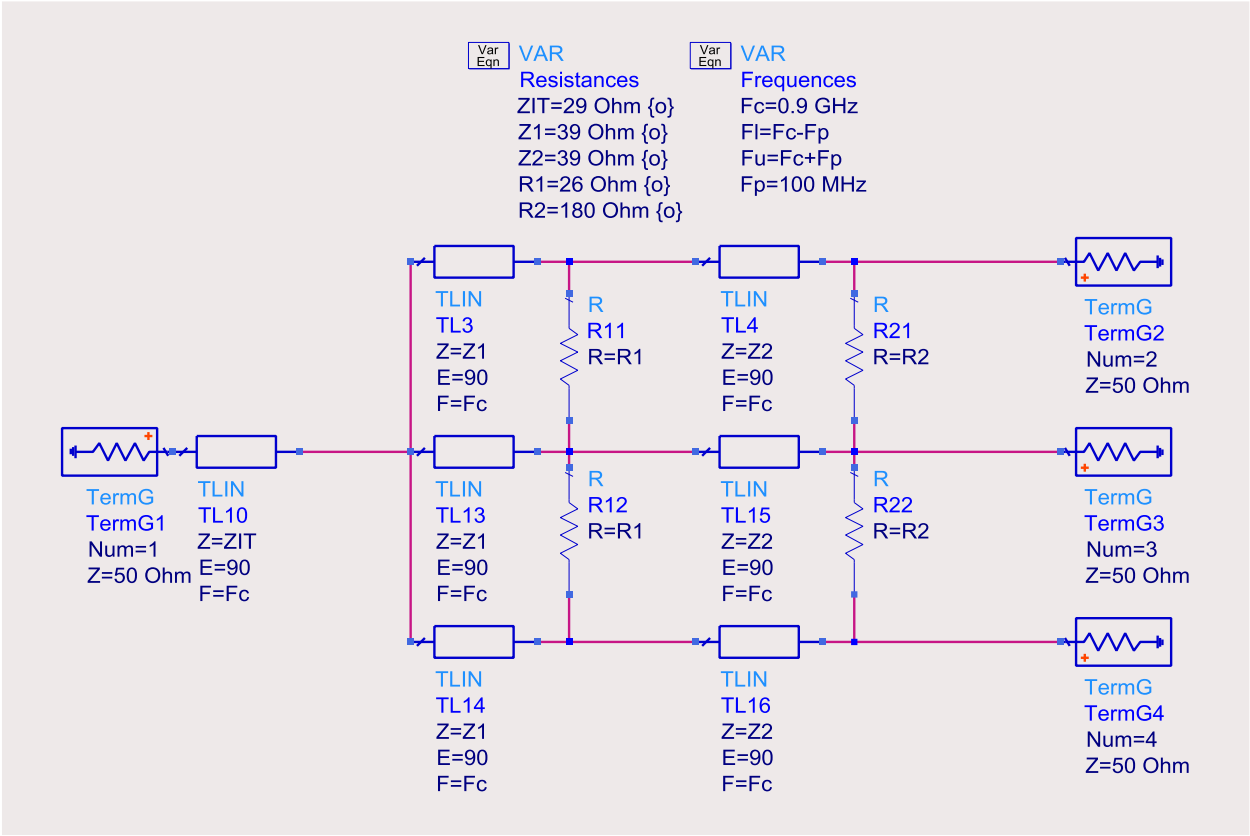
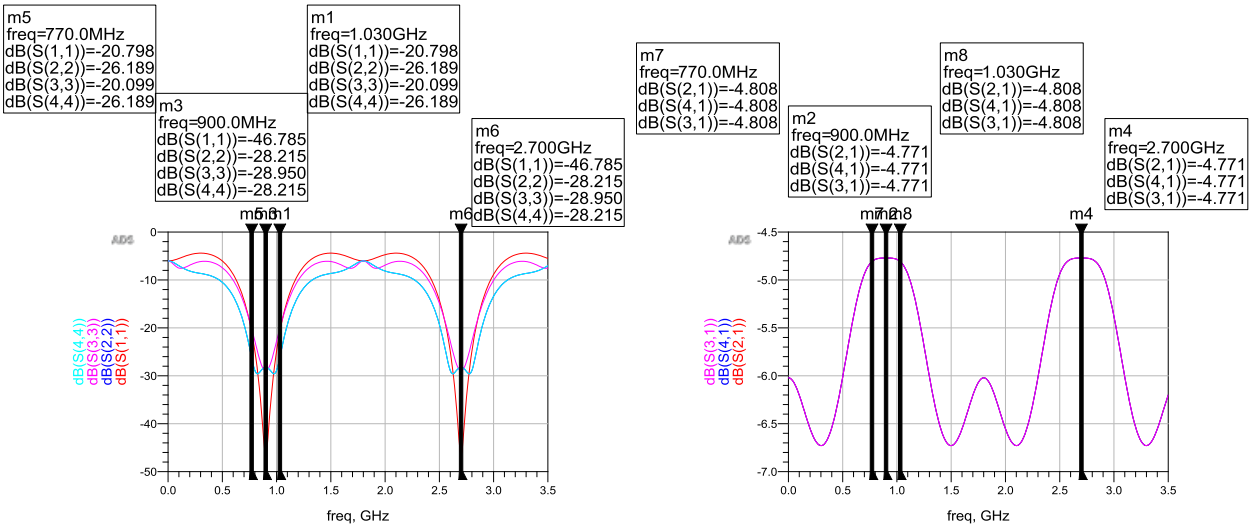
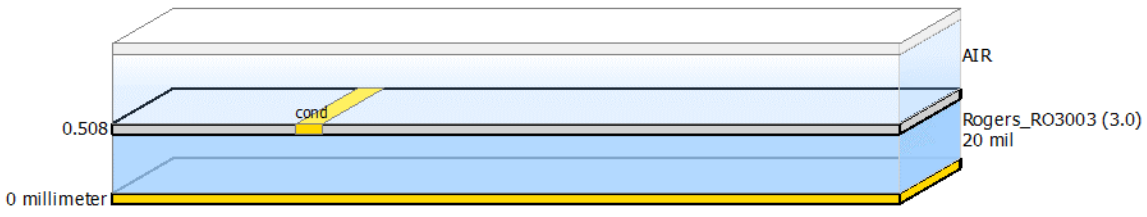
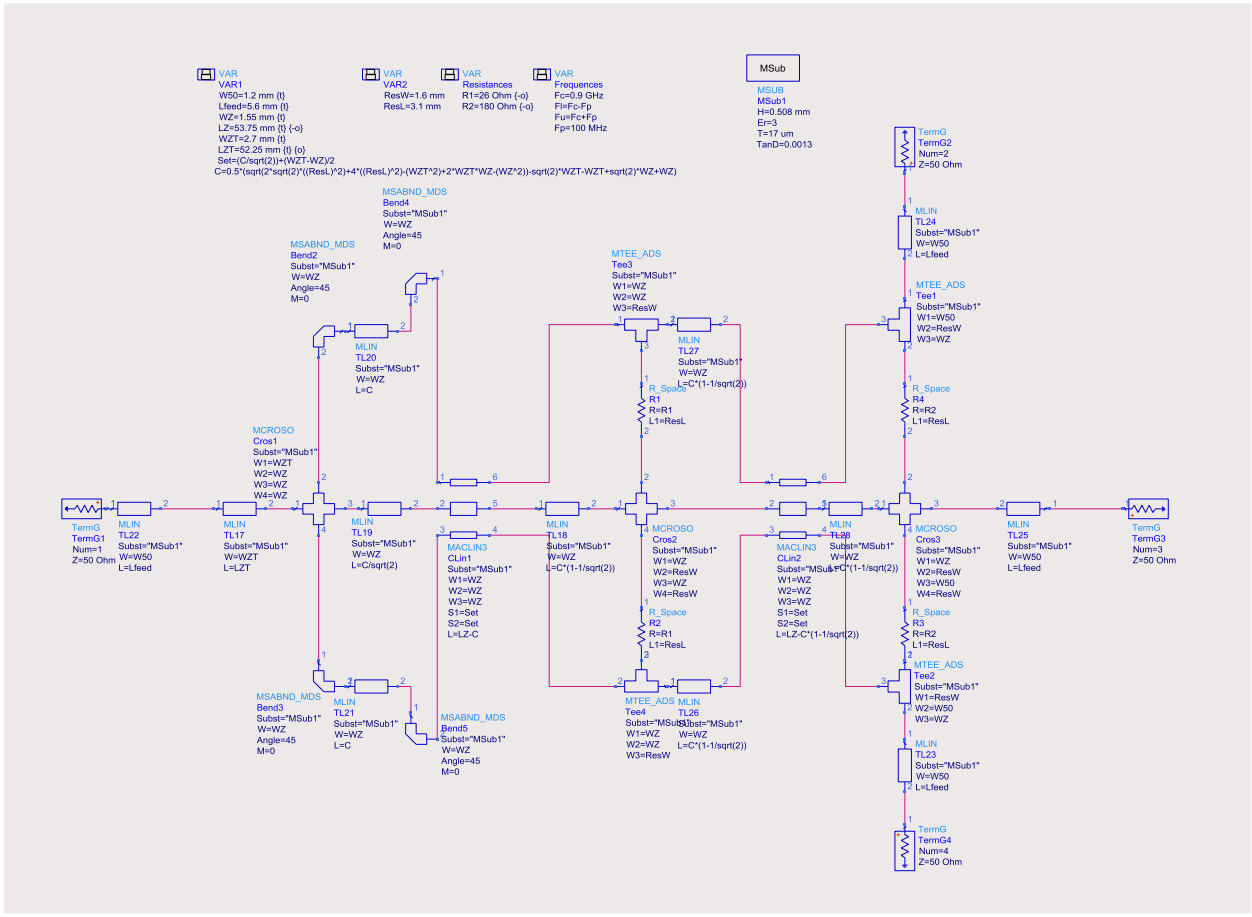
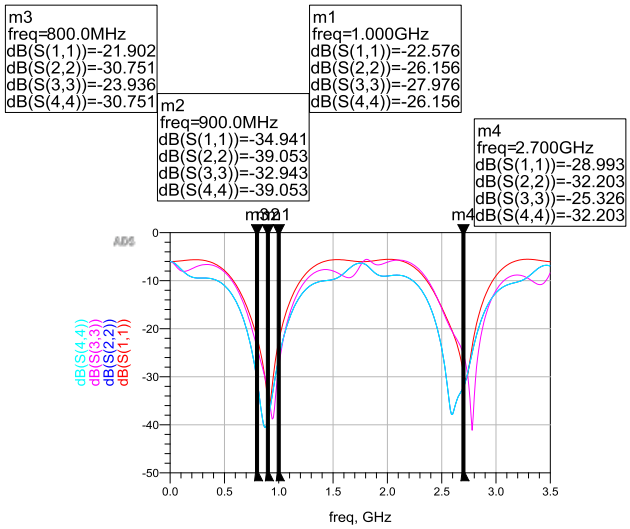


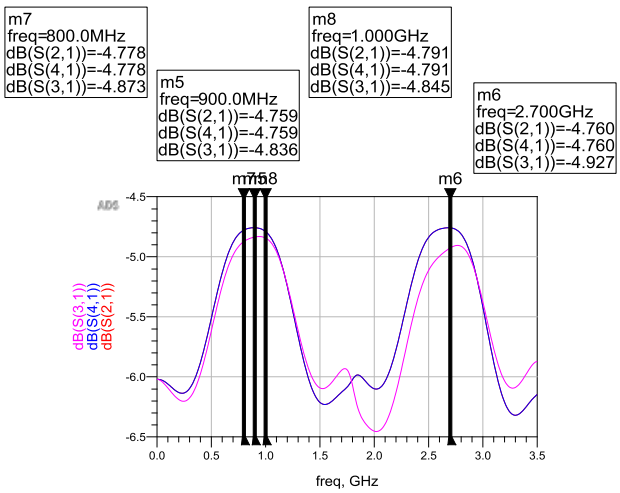


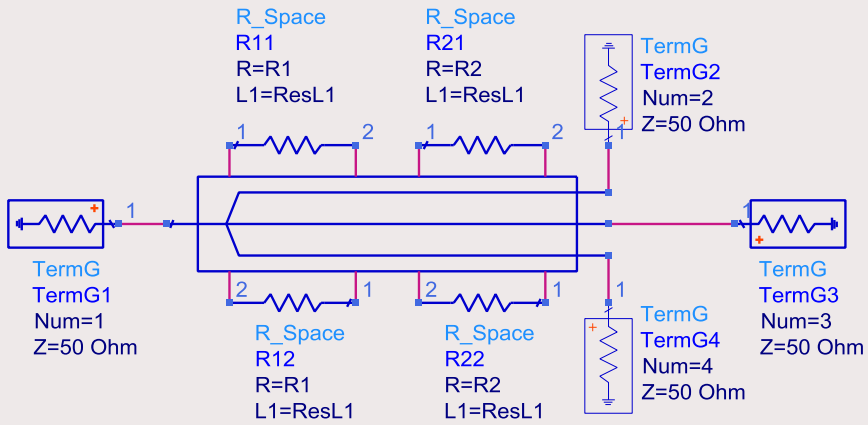
Выбором будет Rogers 3003 20 mil




VAR
VAR1
W50=1.2 mm {t}
Lfeed=5.6 mm {t}
WZ=1.55 mm {t}
LZ=53.75 mm {t} {-o}
WZT=2.7 mm {t}
LZT=52.25 mm {t} {o}
Set=(C/sqrt(2))+(WZT-WZ)/2
C=0.5*(sqrt(2*sqrt(2)*((ResL)^2)+4*((ResL)^2)+2*WZT*WZ-(WZ^2))-sqrt(2)*WZT-WZT+sqrt(2)*WZ+WZ)
VAR
VAR2
ResW=1.6 mm
ResL=3.1 mm
VAR
Resistances
R1=26 Ohm {-o}
R2=180 Ohm {-o}
VAR
Frequences
Fc=0.9 GHz
Fl=Fc-Fp
Fu=Fc+Fp
Fp=100 MHz
MSub
MSUB
MSub1
H=0.508 mm
Er=3
T=17 um
TanD=0.0013
TermG
TermG2
Num=2
Z=50 Ohm
MLIN
TL24
Subst="MSub1"
W=W50
L=Lfeed
MTEE_ADS
Tee1
Subst="MSub1"
W1=W50
W2=ResW
W3=WZ
R_Space
R4
R=R2
L1=ResL
MSABND_MDS
Bend4
Subst="MSub1"
W=WZ
Angle=45
M=0
MSABND_MDS
Bend2
Subst="MSub1"
W=WZ
Angle=45
M=0
MTEE_ADS
Tee3
Subst="MSub1"
W1=WZ
W2=WZ
W3=ResW
MLIN
TL27
Subst="MSub1"
W=WZ
L=C*(1-1/sqrt(2))
R_Space
R1
R=R1
L1=ResL
MLIN
TL20
Subst="MSub1"
W=WZ
L=C
MCROSO
Cros1
Subst="MSub1"
W1=WZT
W2=WZ
W3=WZ
W4=WZ
TermG
TermG1
Num=1
Z=50 Ohm
MLIN
TL22
Subst="MSub1"
W=W50
L=Lfeed
MLIN
TL17
Subst="MSub1"
W=WZT
L=LZT
MLIN
TL19
Subst="MSub1"
W=WZ
L=C/sqrt(2)
MACLIN3
CLin1
Subst="MSub1"
W1=WZ
W2=WZ
W3=WZ
S1=Set
S2=Set
L=LZ-C
MLIN
TL18
Subst="MSub1"
W=WZ
L=C*(1-1/sqrt(2))
MCROSO
Cros2
Subst="MSub1"
W1=WZ
W2=ResW
W3=WZ
W4=ResW
R_Space
R2
R=R1
L1=ResL
MTEE_ADS
Tee4
Subst="MSub1"
W1=WZ
W2=WZ
W3=ResW
MLIN
TL26
Subst="MSub1"
W=WZ
L=C*(1-1/sqrt(2))
MSABND_MDS
Bend3
Subst="MSub1"
W=WZ
Angle=45
M=0
MLIN
TL21
Subst="MSub1"
W=WZ
L=C
MSABND_MDS
Bend5
Subst="MSub1"
W=WZ
Angle=45
M=0
MACLIN3
CLin2
Subst="MSub1"
W1=WZ
W2=WZ
W3=WZ
S1=Set
S2=Set
L=LZ-C*(1-1/sqrt(2))
MLIN
TL28
Subst="MSub1"
W=WZ
L=C*(1-1/sqrt(2))
MCROSO
Cros3
Subst="MSub1"
W1=WZ
W2=ResW
W3=W50
W4=ResW
R_Space
R3
R=R2
L1=ResL
MTEE_ADS
Tee2
Subst="MSub1"
W1=ResW
W2=W50
W3=WZ
MLIN
TL23
Subst="MSub1"
W=W50
L=Lfeed
MLIN
TL25
Subst="MSub1"
W=W50
L=Lfeed
TermG
TermG3
Num=3
Z=50 Ohm
TermG
TermG4
Num=4
Z=50 Ohm


m3
freq=800.0MHz
dB(S(1,1))=-21.902
dB(S(2,2))=-30.751
dB(S(3,3))=-23.936
dB(S(4,4))=-30.751
m1
freq=1.000GHz
dB(S(1,1))=-22.576
dB(S(2,2))=-26.156
dB(S(3,3))=-27.976
dB(S(4,4))=-26.156
m2
freq=900.0MHz
dB(S(1,1))=-34.941
dB(S(2,2))=-39.053
dB(S(3,3))=-32.943
dB(S(4,4))=-39.053
m4
freq=2.700GHz
dB(S(1,1))=-28.993
dB(S(2,2))=-32.203
dB(S(3,3))=-25.326
dB(S(4,4))=-32.203
m3
m1
m2
m4
dB(S(4,4))
dB(S(3,3))
dB(S(2,2))
dB(S(1,1))
0
-10
-20
-30
-40
-50
0.0
0.5
1.0
1.5
2.0
2.5
3.0
3.5
freq, GHz


m7
freq=800.0MHz
dB(S(2,1))=-4.778
dB(S(4,1))=-4.778
dB(S(3,1))=-4.873
m5
freq=900.0MHz
dB(S(2,1))=-4.759
dB(S(4,1))=-4.759
dB(S(3,1))=-4.836
m8
freq=1.000GHz
dB(S(2,1))=-4.791
dB(S(4,1))=-4.791
dB(S(3,1))=-4.845
m6
freq=2.700GHz
dB(S(2,1))=-4.760
dB(S(4,1))=-4.760
dB(S(3,1))=-4.927
m7
m5
m8
m6
dB(S(3,1))
dB(S(4,1))
dB(S(2,1))
-4.5
-5.0
-5.5
-6.0
-6.5
0.0
0.5
1.0
1.5
2.0
2.5
3.0
3.5
freq, GHz



EM_Inner
emModel
X1
W50=1.2 mm
Lfeed=5.6 mm
WZ=1.55 mm
LZ=53.75 mm
WZT=2.7 mm
LZT=52.25 mm
Set=(C/sqrt(2))+(WZT-WZ)/2
C=0.5*(sqrt(2*sqrt(2)*((ResL)^2)+4*((ResL)^2)-(WZT^2)+2*WZT*WZ-(WZ^2))-sqrt(2)*WZT-WZT+sqrt(2)*WZ+WZ)
ResL=3.1 mm
ResW=1.6 mm