

MeasEqn  
Meas3  
Sfund=(Zfund-conj(PortZ1))/(Zfund+PortZ1)  
S2nd=(Z2nd-conj(PortZ1))/(Z2nd+PortZ1)  
S3rd=(Z3rd-conj(PortZ1))/(Z3rd+PortZ1)  
S4th=(Z4th-conj(PortZ1))/(Z4th+PortZ1)  
S5th=(Z5th-conj(PortZ1))/(Z5th+PortZ1)

**MSub**

MSUB  
MSub1  
H=0.762 mm  
Er=3.66  
Mur=1  
Cond=5.8e7  
Hu=3.9e34 mil  
T=18 um  
TanD=0.0031  
Rough=0 mm  
Bbase=  
Dpeaks=

VAR  
VAR1  
Zfund=10.649 -j4.039  
Z2nd=0  
Z3rd=0  
Z4th=0  
Z5th=0

**GOAL**  
Goal  
OptimGoal1  
Expr="Sfund\_err"  
SimInstanceName="SP1"  
Weight=5

**GOAL**  
Goal  
OptimGoal2  
Expr="S2nd\_err"  
SimInstanceName="SP1"  
Weight=3

**GOAL**  
Goal  
OptimGoal9  
Expr="abs(Zin1[2])"  
SimInstanceName="SP1"  
Weight=1

**GOAL**  
Goal  
OptimGoal11  
Expr="dB(S21[0])"  
SimInstanceName="SP1"  
Weight=1

**S-PARAMETERS**

S\_Param  
SP1  
Start=5900 MHz  
Stop=29500 MHz  
Step=5900 MHz

MeasEqn  
Meas1  
Sfund=(Zfund-conj(PortZ1))/(Zfund+PortZ1)  
S2nd=(Z2nd-conj(PortZ1))/(Z2nd+PortZ1)  
S3rd=(Z3rd-conj(PortZ1))/(Z3rd+PortZ1)  
S4th=(Z4th-conj(PortZ1))/(Z4th+PortZ1)  
S5th=(Z5th-conj(PortZ1))/(Z5th+PortZ1)

VAR  
VAR3  
L\_dc=7.9992 {-o}

**OPTIM**

Optim  
OptimType=Gradient  
MaxIters=20000  
DesiredError=0.0  
StatusLevel=4  
FinalAnalysis="SP1"  
NormalizeGoals=no  
SelBestValues=yes  
SaveSols=yes  
SaveGoals=yes  
SaveOptimVars=no  
UpdateDataset=yes  
SaveNominal=no  
SaveAllIterations=no  
UseAllOptVars=yes  
UseAllGoals=yes

SaveCurrentEF=no  
EnableCockpit=yes  
SaveAllTrials=no

MeasEqn  
Meas2  
Sfund\_err=abs(S11[0]-Sfund)  
  
S2nd\_err=abs(S11[1]-S2nd)  
S3rd\_err=abs(S11[2]-S3rd)  
S4th\_err=abs(S11[3]-S4th)  
S5th\_err=abs(S11[4]-S5th)

VAR  
VAR40  
Lbeg=14.3627 {o}

VAR  
VAR33  
L1=5.57515 {o}  
W1=2.49988 {o}

VAR  
VAR35  
W2=2.19967 {o}  
L2=4.50985 {o}

VAR  
VAR32  
W3=2.49998 {o}  
L3=2.00008 {o}

VAR  
VAR36  
Ws1=1.50002 {o}  
Ls1=13.5234 {o}

VAR  
VAR39  
Ws2=2.3439 {o}  
Ls2=10.0169 {o}

VAR  
VAR38  
Ws3=1.45 {o}  
Ls3=13.9994 {o}

VAR  
VAR37  
L5=3.00007 {o}

VAR  
VAR34  
W4=2.49999 {o}  
L4=2.00005 {o}

