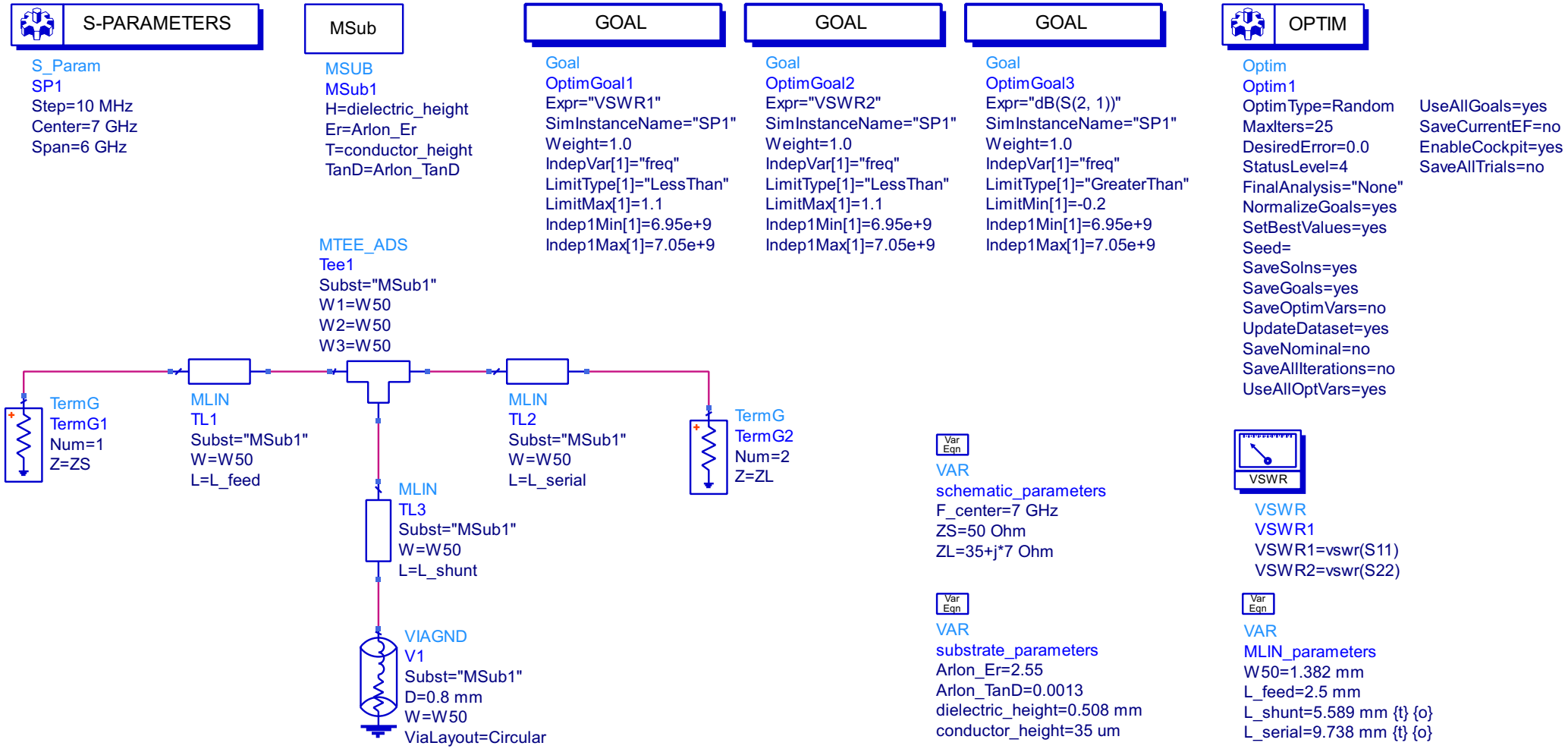
S-PARAMETERS
S_Param
SP1
Step=10 MHz
Center=7 GHz
Span=6 GHz
MSub
MSUB
MSub1
H=dielectric_height
Er=Arlon_Er
T=conductor_height
TanD=Arlon_TanD
GOAL
Goal
OptimGoal1
Expr="VSWR1"
SimInstanceName="SP1"
Weight=1.0
IndepVar[1]="freq"
LimitType[1]="LessThan"
LimitMax[1]=1.1
Indep1Min[1]=6.95e+9
Indep1Max[1]=7.05e+9
GOAL
Goal
OptimGoal2
Expr="VSWR2"
SimInstanceName="SP1"
Weight=1.0
IndepVar[1]="freq"
LimitType[1]="LessThan"
LimitMax[1]=1.1
Indep1Min[1]=6.95e+9
Indep1Max[1]=7.05e+9
GOAL
Goal
OptimGoal3
Expr="dB(S(2, 1))"
SimInstanceName="SP1"
Weight=1.0
IndepVar[1]="freq"
LimitType[1]="GreaterThan"
LimitMin[1]=-0.2
Indep1Min[1]=6.95e+9
Indep1Max[1]=7.05e+9
OPTIM
Optim
Optim1
OptimType=Random
MaxIters=25
DesiredError=0.0
StatusLevel=4
FinalAnalysis="None"
NormalizeGoals=yes
SetBestValues=yes
Seed=
SaveSolns=yes
SaveGoals=yes
SaveOptimVars=no
UpdateDataset=yes
SaveNominal=no
SaveAllIterations=no
UseAllOptVars=yes
UseAllGoals=yes
SaveCurrentEF=no
EnableCockpit=yes
SaveAllTrials=no
MTEE_ADS
Tee1
Subst="MSub1"
W1=W50
W2=W50
W3=W50
TermG
TermG1
Num=1
Z=ZS
MLIN
TL1
Subst="MSub1"
W=W50
L=L_feed
MLIN
TL2
Subst="MSub1"
W=W50
L=L_serial
TermG
TermG2
Num=2
Z=ZL
MLIN
TL3
Subst="MSub1"
W=W50
L=L_shunt
VIAGND
V1
Subst="MSub1"
D=0.8 mm
W=W50
ViaLayout=Circular
Var Eqn
VAR
schematic_parameters
F_center=7 GHz
ZS=50 Ohm
ZL=35+j*7 Ohm
Var Eqn
VAR
substrate_parameters
Arlon_Er=2.55
Arlon_TanD=0.0013
dielectric_height=0.508 mm
conductor_height=35 um
VSWR
VSWR
VSWR1
VSWR1=vswr(S11)
VSWR2=vswr(S22)
Var Eqn
VAR
MLIN_parameters
W50=1.382 mm
L_feed=2.5 mm
L_shunt=5.589 mm {t} {o}
L_serial=9.738 mm {t} {o}