



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

MTEE_ADS

Tee1

Subst="MSub1"

W1=W50

W2=W50

W3=W50

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

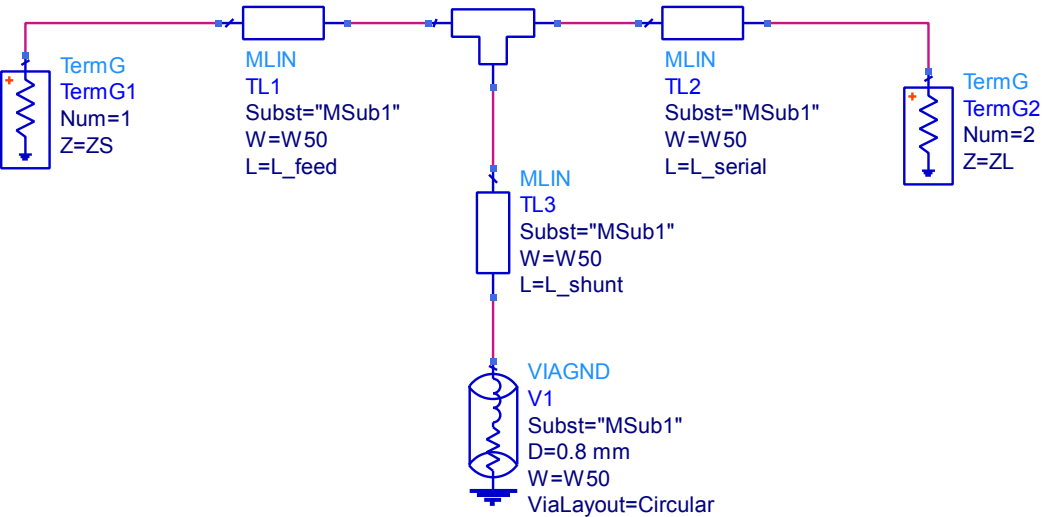
UseAllOptVars=yes

UseAllGoals=yes

SaveCurrentEF=no

EnableCockpit=yes

SaveAllTrials=no



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

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}