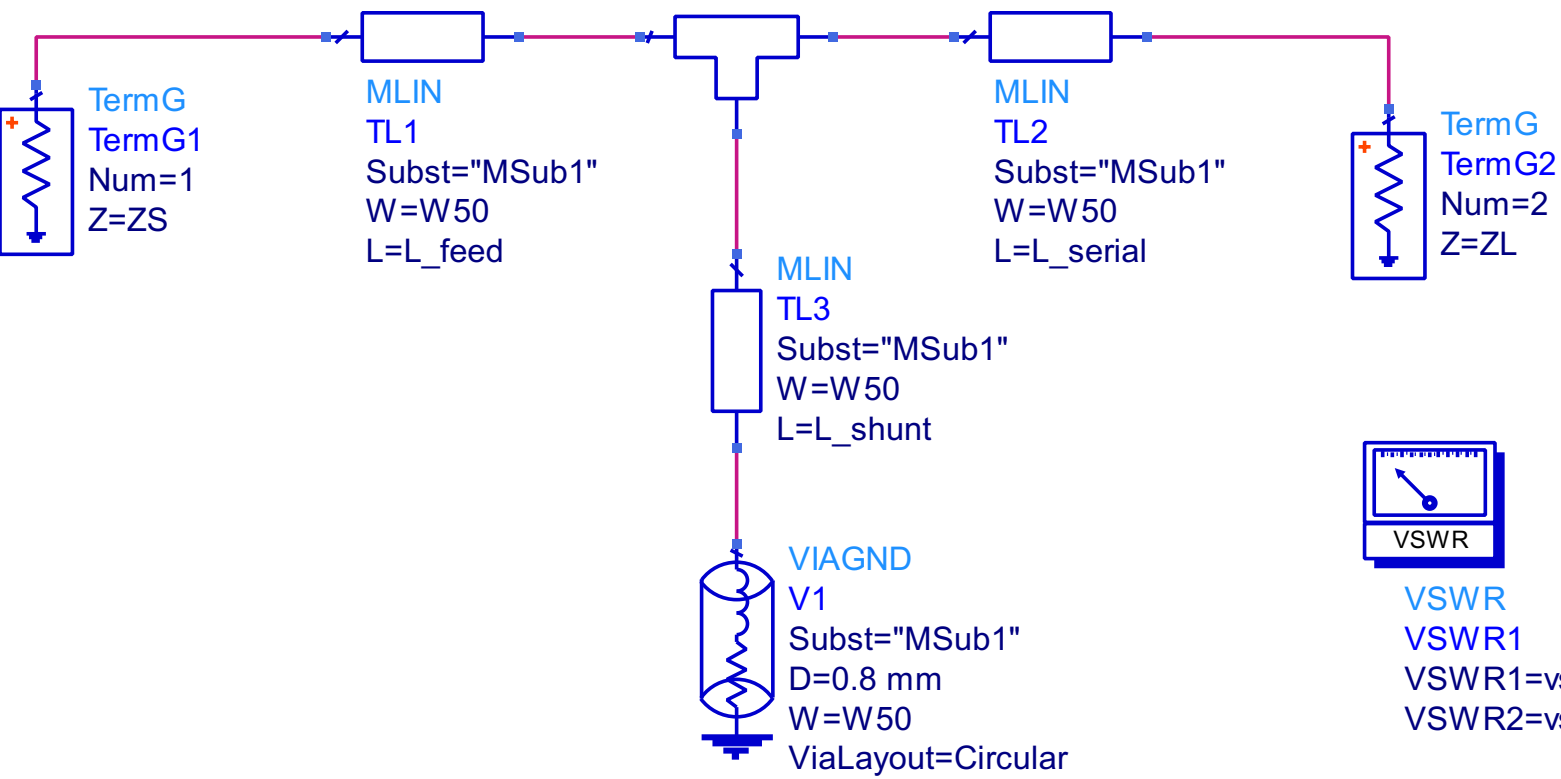**S-PARAMETERS**

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

Var Eqn

VAR
MLIN_parameters
W50=1.382 mm
L_feed=2.5 mm
L_shunt=5.558 mm {t}
L_serial=9.735 mm {t}

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

Var Eqn

VAR
schematic_parameters
F_center=7 GHz
ZS=50 Ohm
ZL=35+j*7 Ohm

MLIN
TL3
Subst="MSub1"
W=W50
L=L_shunt

VSWR

VSWR
VSWR1
VSWR1=vswr(S11)
VSWR2=vswr(S22)

VIAGND
V1
Subst="MSub1"
D=0.8 mm
W=W50
ViaLayout=Circular

Var Eqn

VAR
substrate_parameters
Arlon_Er=2.55
Arlon_TanD=0.0013
dielectric_height=0.508 mm
conductor_height=35 um