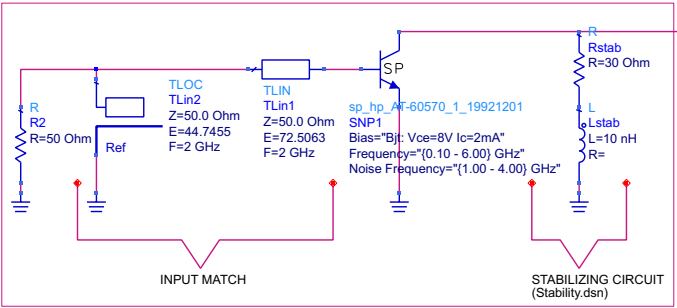
CREATE OUTPUT MATCHING NETWORK: Step 1

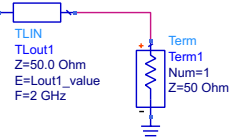
With the input matching network in place, the output of the amplifier is matched to 50Ohms.

1) The reflection coefficient of the complete amplifier (input matching network, device, stabilizing network) is measured, with a TLout1 at the output.

2) The length of TLout1 is swept until the real part of the amplifier's output conducatence is 20 mS.

SIMULATIONS





VARIABLES

VAR
VAR1
Lout1_value=0

"Lout1_value" is defined here and set to 0. The actual values used in simulation are set in the ParamSweep component.

S-PARAMETERS

S_Param
SP1
Freq=2 GHz

S-parameter simulation is run at a single frequency (2GHz), while TLout1 length is swept.

PARAMETER SWEEP

ParamSweep
Sweep1
SweepVar="Lout1_value"
SimInstanceName[1]="SP1"
SimInstanceName[2]=
SimInstanceName[3]=
SimInstanceName[4]=
SimInstanceName[5]=
SimInstanceName[6]=
Start=52
Stop=53
Step=0.1