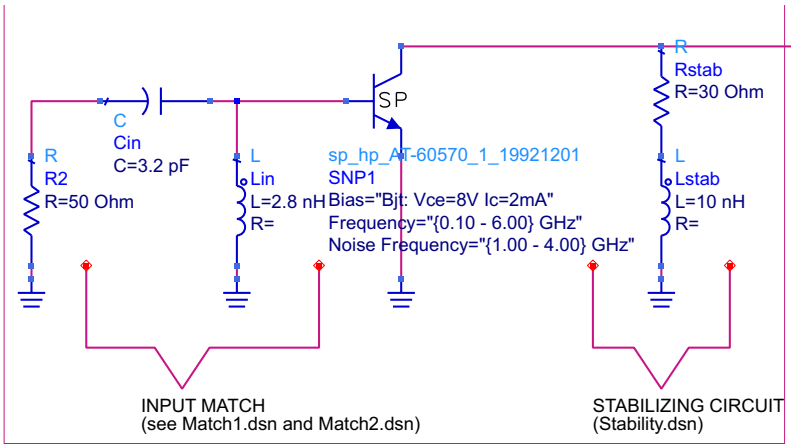

CREATE OUTPUT MATCHING NETWORK: Step 2

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

1) The shunt inductor is set to 6.9 nH, the value found in Match3.dsn.

2) The capacitance value is swept until the reactive part of the amplifier's output impedance is eliminated. (see OutputMatch.dds).

SIMULATIONS

S-PARAMETERS

S_Param
SP1
Freq=2 GHz

S-parameter simulation is run at a single frequency (2GHz), while the capacitor value is swept.

PARAMETER SWEEP

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

VARIABLES

Var Eqn
VAR
VAR1
C_value=0

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