



SIMULATIONS



S-PARAMETERS

S_Param

SP1

Freq=2 GHz



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

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

VARIABLES



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.

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).