



## CREATE OUTPUT MATCHING NETWORK: Step 1

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

- 1) The reflection coefficient of the complete amplifier (input matching network, device, stabilizing network) is measured, with a shunt inductor at the output.
- 2) The inductor is swept until the real part of the amplifier's output impedance is 50 Ohms (see OutputMatch.dds).

### SIMULATIONS

S-PARAMETERS	PARAMETER SWEEP
<div>S_Param</div> <div>SP1</div> <div>Freq=2 GHz</div>	<div>ParamSweep</div> <div>Sweep1</div> <div>SweepVar="L_value"</div> <div>SimInstanceName[1]="SP1"</div> <div>SimInstanceName[2]=</div> <div>SimInstanceName[3]=</div> <div>SimInstanceName[4]=</div> <div>SimInstanceName[5]=</div> <div>SimInstanceName[6]=</div> <div>Start=6.4</div> <div>Stop=7.2</div> <div>Step=0.1</div>
S-parameter simulation is run at a single frequency 2GHz, while the inductor value is swept.	

### VARIABLES

VAR  
Eqn. VAR1  
L\_value=0

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