



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

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="Lout1_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=52</div> <div>Stop=53</div> <div>Step=0.1</div>

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