

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 reflection coefficient of the complete amplifier (input matching network, device, stabilizing network) is measured, with a TLout1 and TLout2 at the output.

2) The length of TLout2 is swept until the imaginary part of the amplifier's output conductance is canceled (nulled).

SIMULATIONS



S-PARAMETERS

S_Param

SP1

Freq=2 GHz



PARAMETER SWEEP

ParamSweep

Sweep1

SweepVar="Lout2_value"

SimInstanceName[1]="SP1"

SimInstanceName[2]=

SimInstanceName[3]=

SimInstanceName[4]=

SimInstanceName[5]=

SimInstanceName[6]=

Start=42

Stop=43

Step=0.1

S-parameter simulation is run at a single frequency (2GHz), while TLout2 length is swept.

