

## VARIABLES

Var VAR
VAR1
Opt=polar(0.444,98.626)
L\_value=0
"Opt" is the optimum source match for minimum noise, taken from "SparamNoise.dds"

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

## CREATE INPUT MATCHING NETWORK: Step 1

The device will be matched for minimum noise figure at 2 GHz.

2) The inductor is swept until the real part of the input impedance

- 1) The input reflection of "S1" is set to the complex conjugate of the impedance to be matched to 50Ohms (in this case, "Opt", the optimum noise match).
- is 50 Ohms (see InputMatch.dds).
- 3) Once the inductor value is known, the same method is used to find the best value for a series capacitance (See Match2.dsn).

## SIMULATIONS

S-parameter simulation is run at

a single frequency (2GHz), while the inductor value is swept.



SimInstanceName[6]=

Start=2.5

Stop=3.5

Step=0.1