CALIFORNIA STATE UNIVERSITY

FULLERTON

EGEE 435

Project 2 Report

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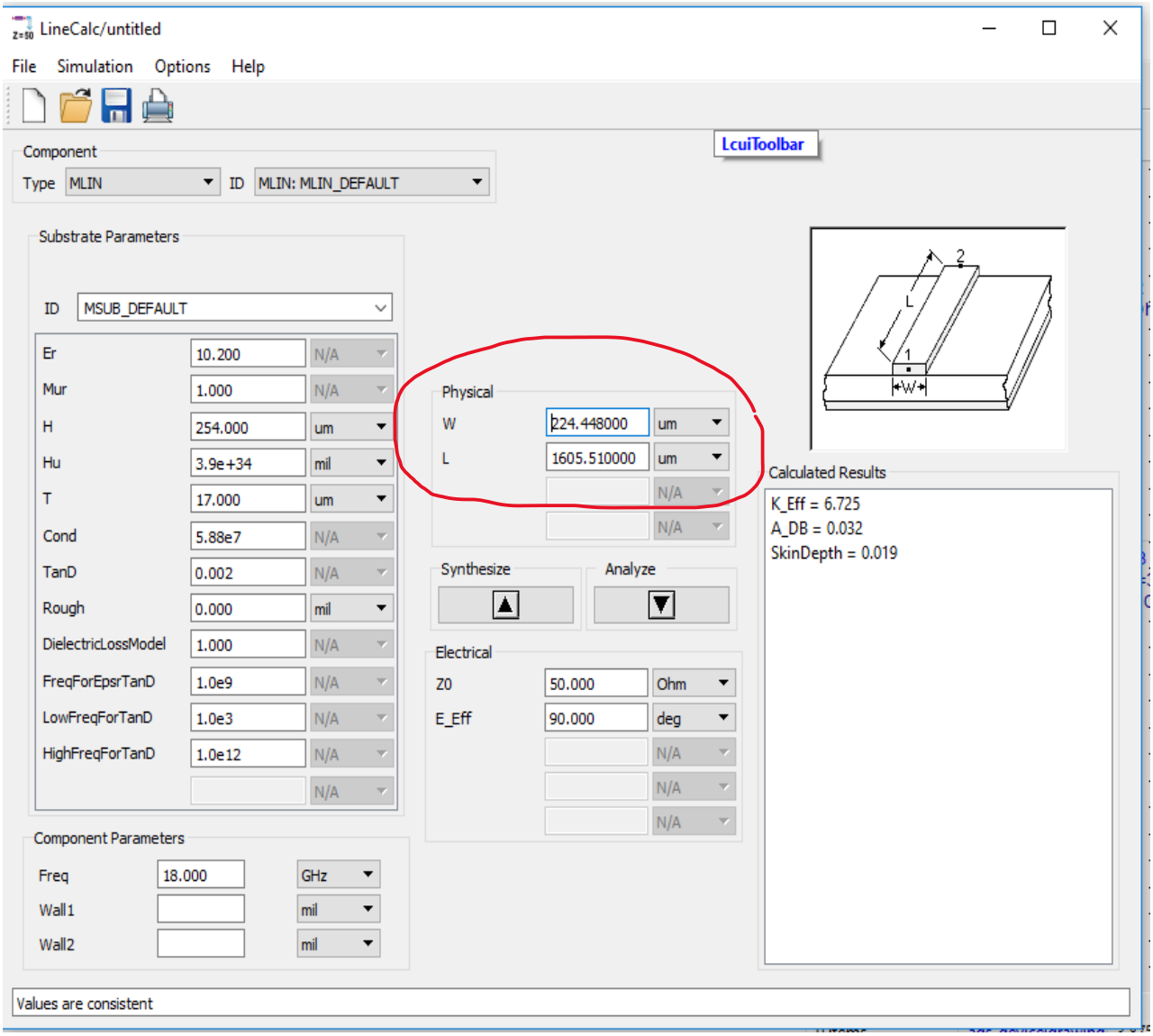
1. Calculate the device's dimension

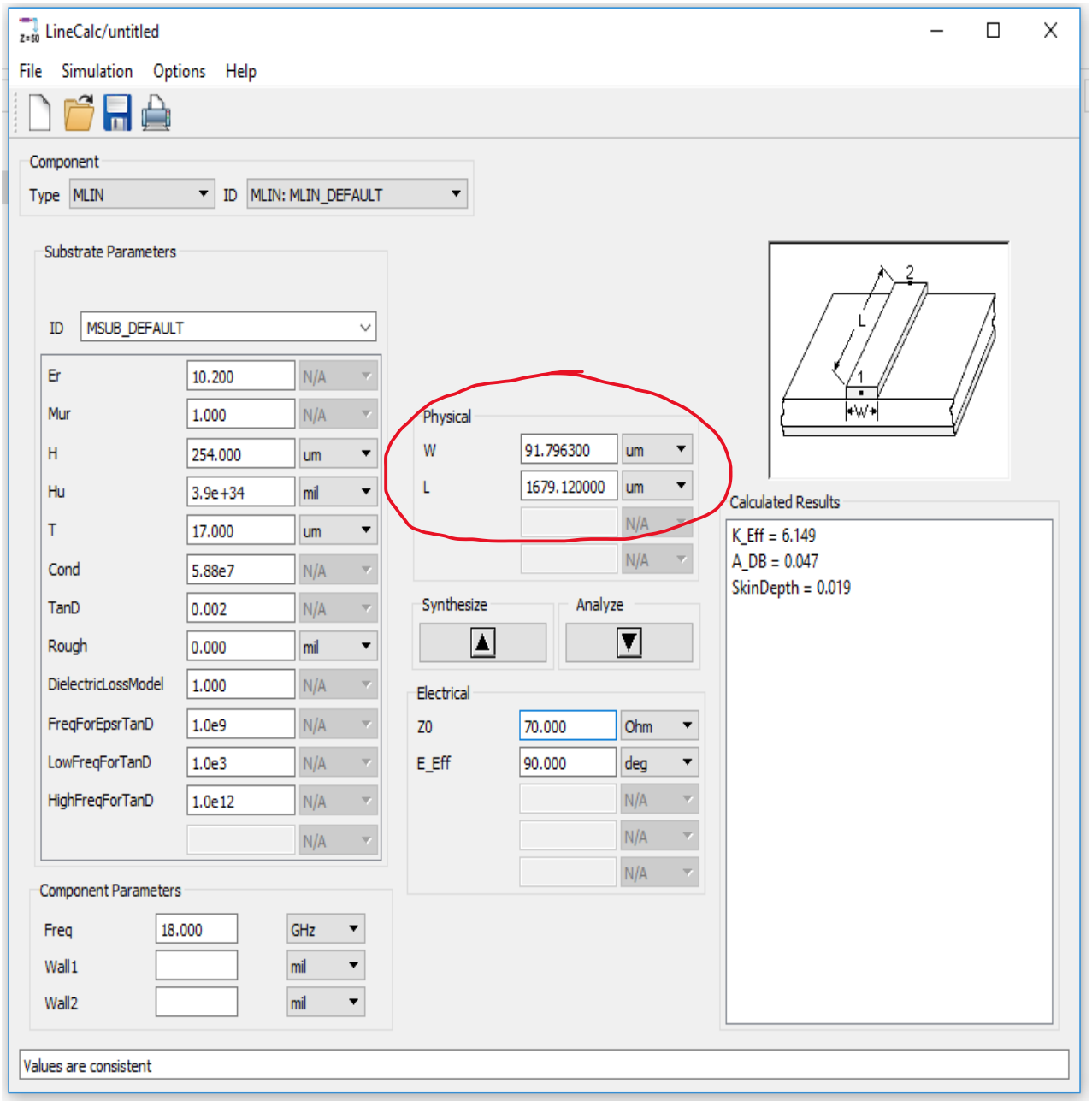
Using the LineCalc tool in ADS, we get the following results

For Zo = 50 ohms, the device dimension are encircled as below

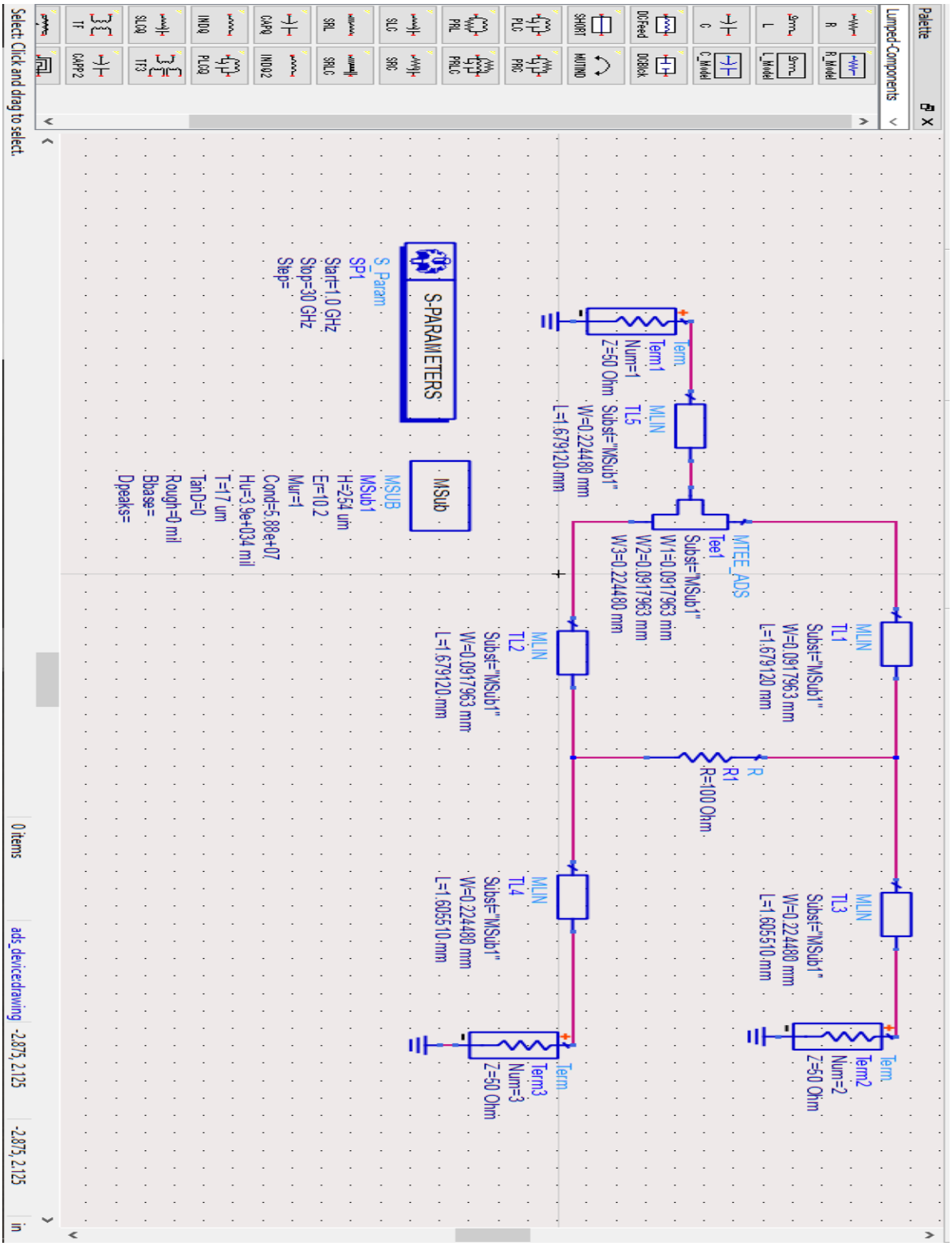


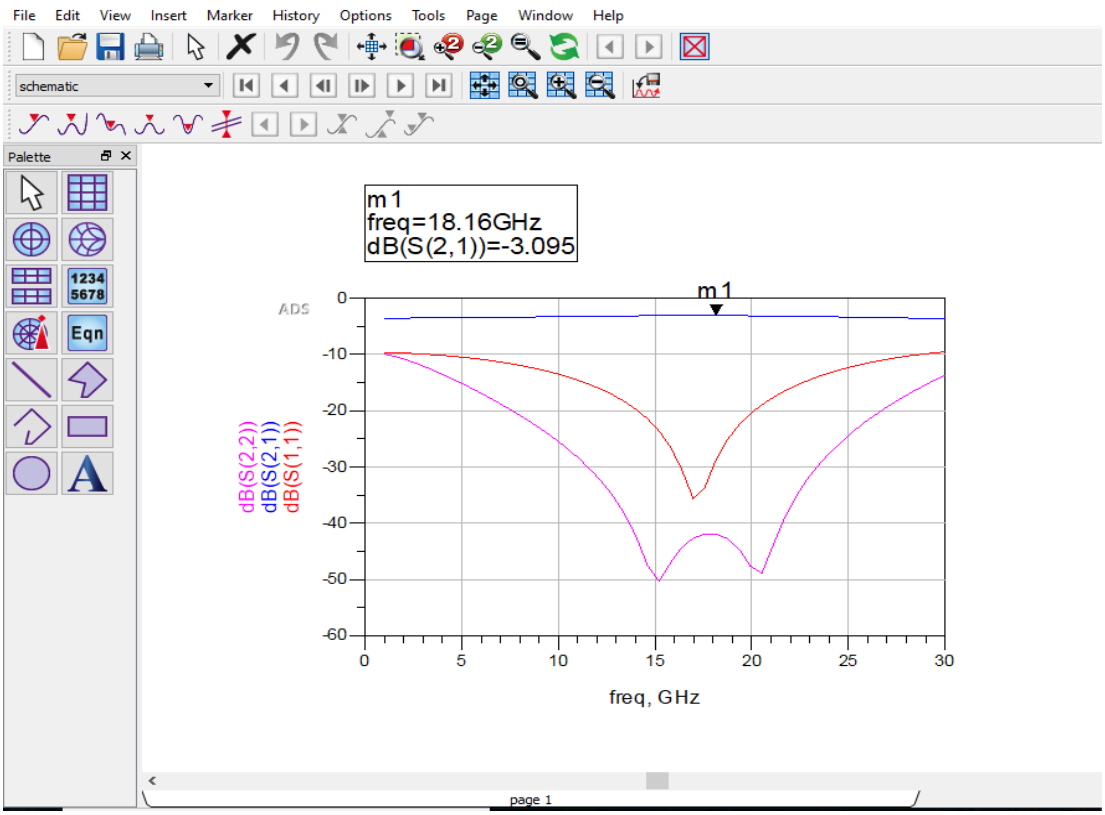
For Zo = Squareroot of 2 * 50 = 70.71

Therefore rounding off Zo = 70 Ohms, the device dimension are encircled as below

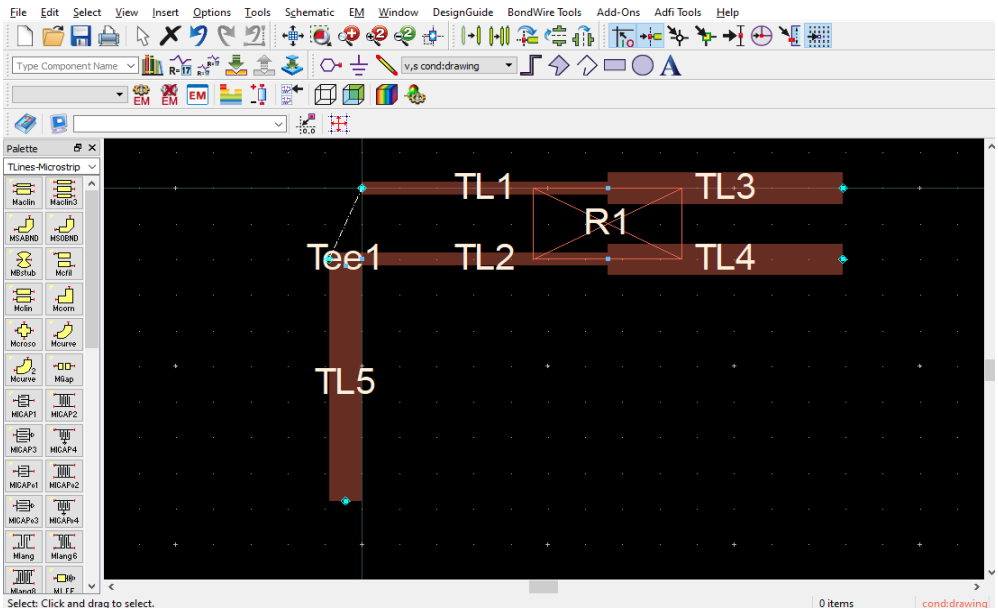


2. Run Simulation using ADS Software




File Edit View Insert Marker History Options Tools Page Window Help
schematic
Palette
m1
freq=18.16GHz
dB(S(2,1))=-3.095
m1
ADS
0
-10
-20
-30
-40
-50
-60
dB(S(2,2))
dB(S(2,1))
dB(S(1,1))
0
5
10
15
20
25
30
freq, GHz
page 1

Plot Layout:


File Edit Select View Insert Options Tools Schematic EM Window DesignGuide BondWire Tools Add-Ons Adfi Tools Help
Palette
TLines-Microstrip
TL1
TL3
R1
Tee1
TL2
TL4
TL5
Select: Click and drag to select.
0 items
cond:drawing