CALIFORNIA STATE UNIVERSITY

FULLERTON

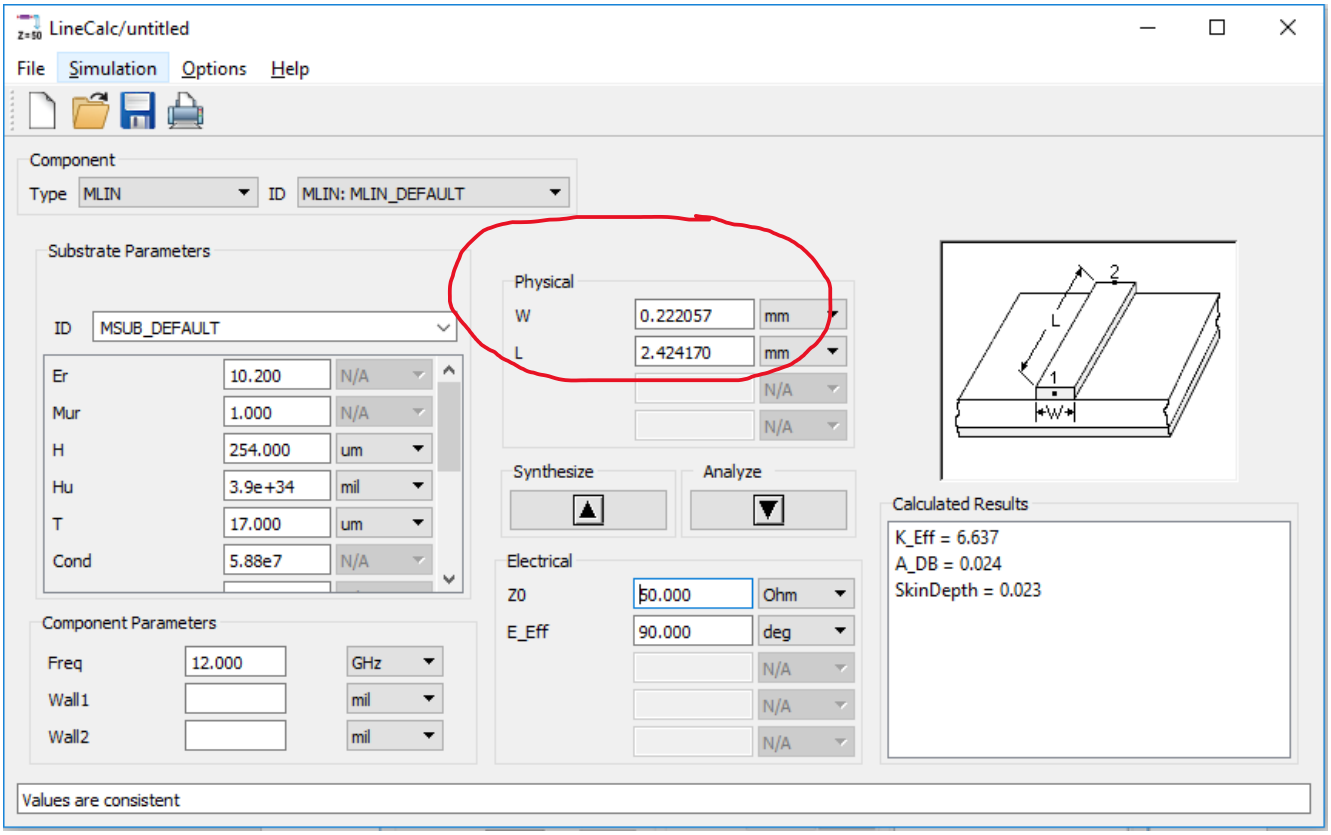
# EGEE 435
# Project 3 Report

Submitted by : Mayank Pathak
CWID: 89330183

# 1. Calculate the device's dimension

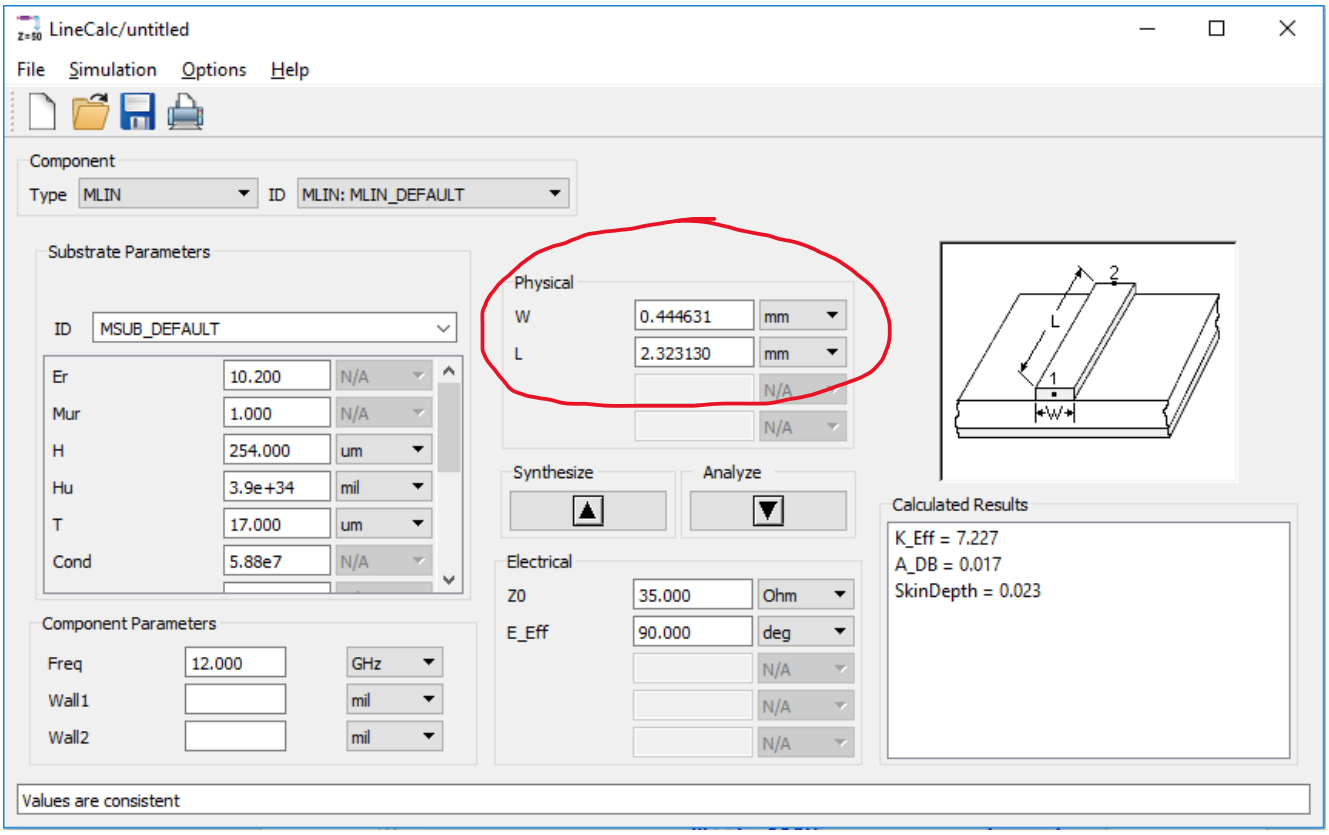
Using the LineCalc tool in ADS, we get the following results

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

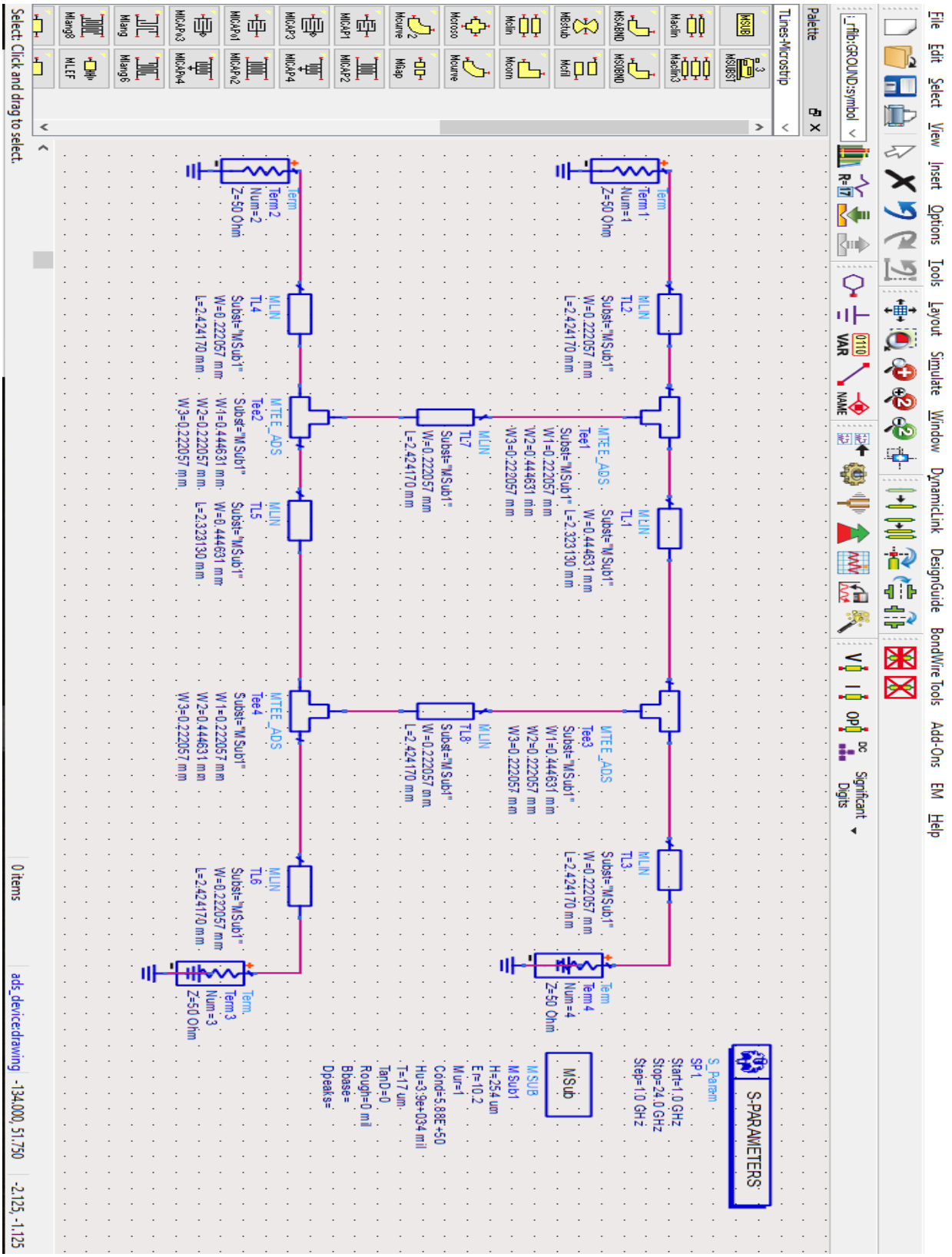


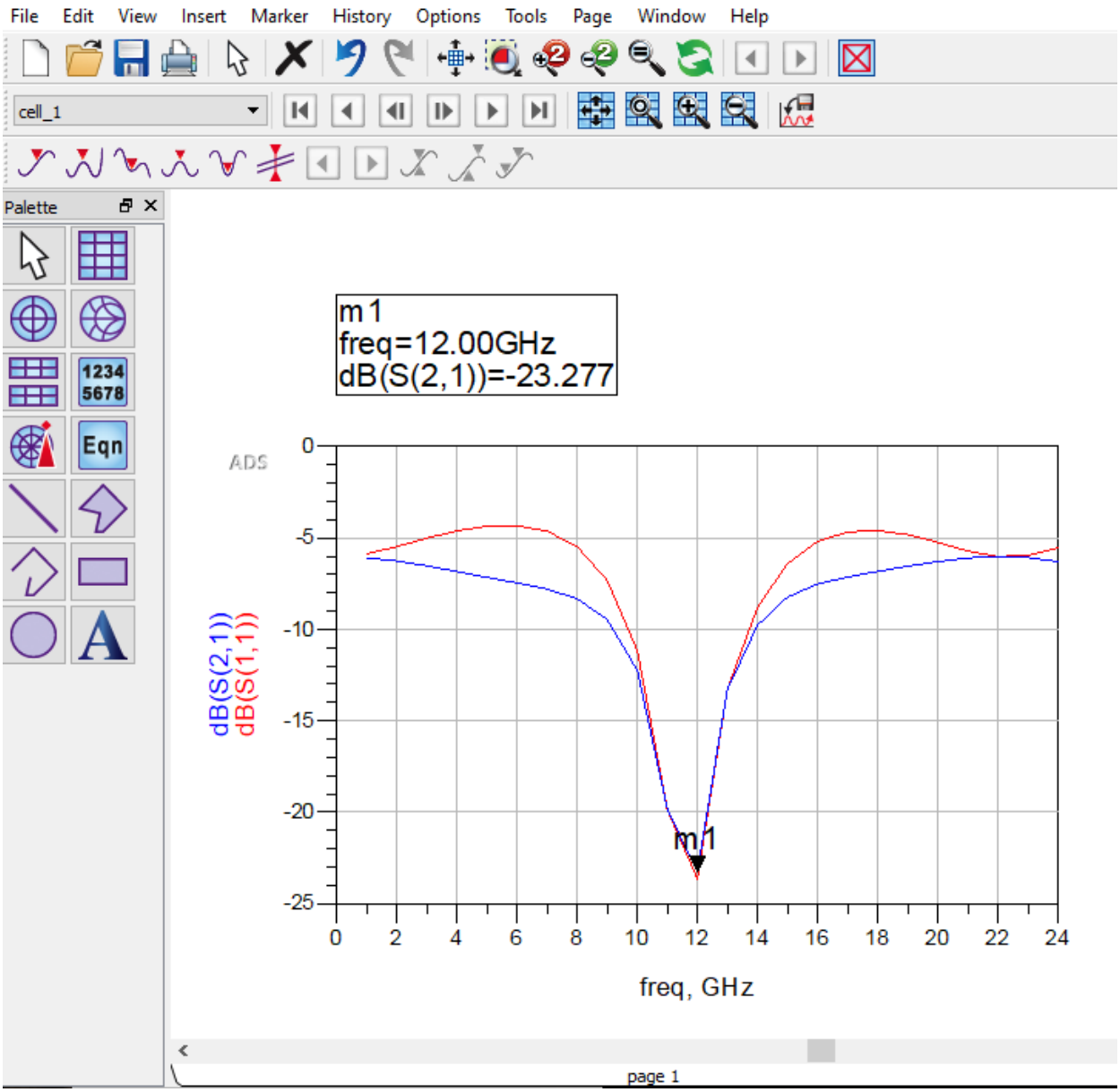
For Zo = 50 / Squareroot of 2 = 35.35

Therefore rounding off Zo = 35 Ohms, the device dimension are encircled as below



## 2. Run Simulation using ADS Software

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Marker
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Options
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cell_1
Palette
Eqn
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m1
freq=12.00GHz
dB(S(2,1))=-23.277
ADS
dB(S(2,1))
dB(S(1,1))
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-5
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-15
-20
-25
0
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8
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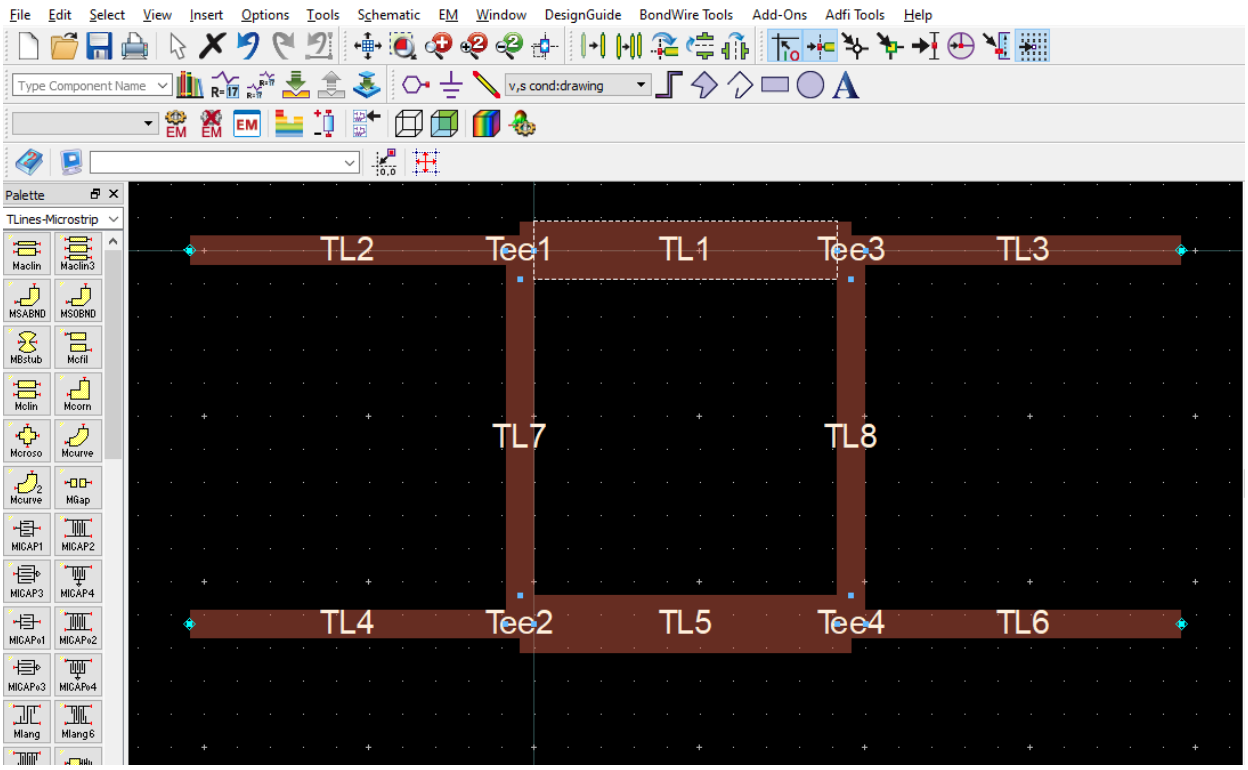
24
freq, GHz
m1
page 1

# Plot Layout: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