

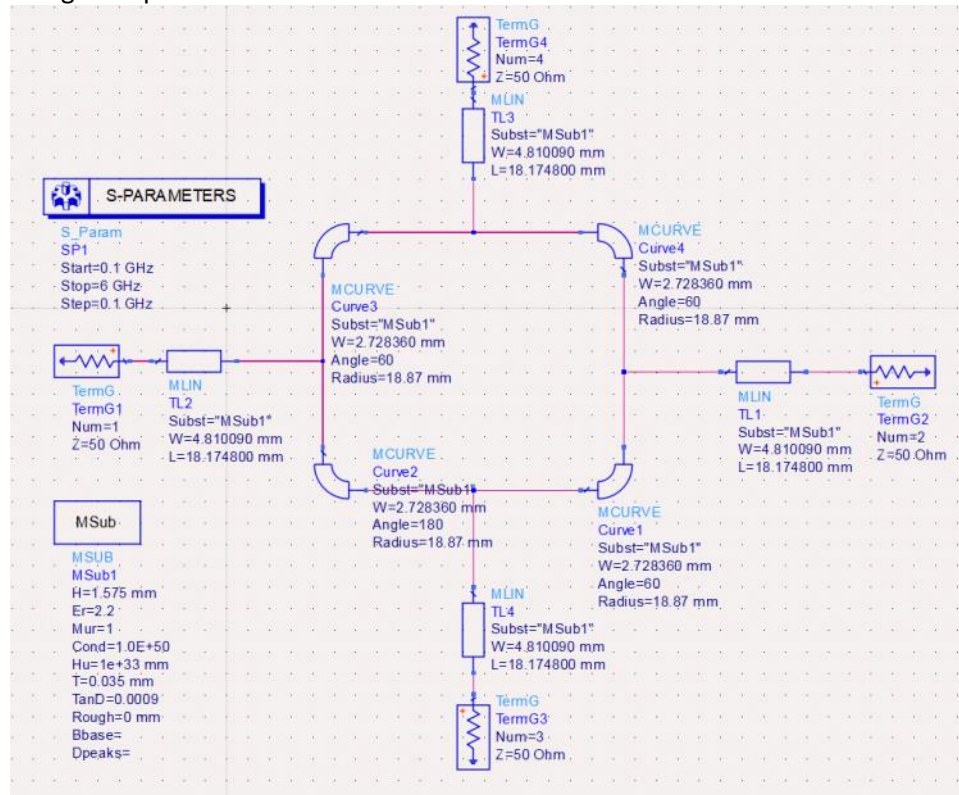
RF and Microwave (ADS) Lab 4 Report

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(SC22B146)

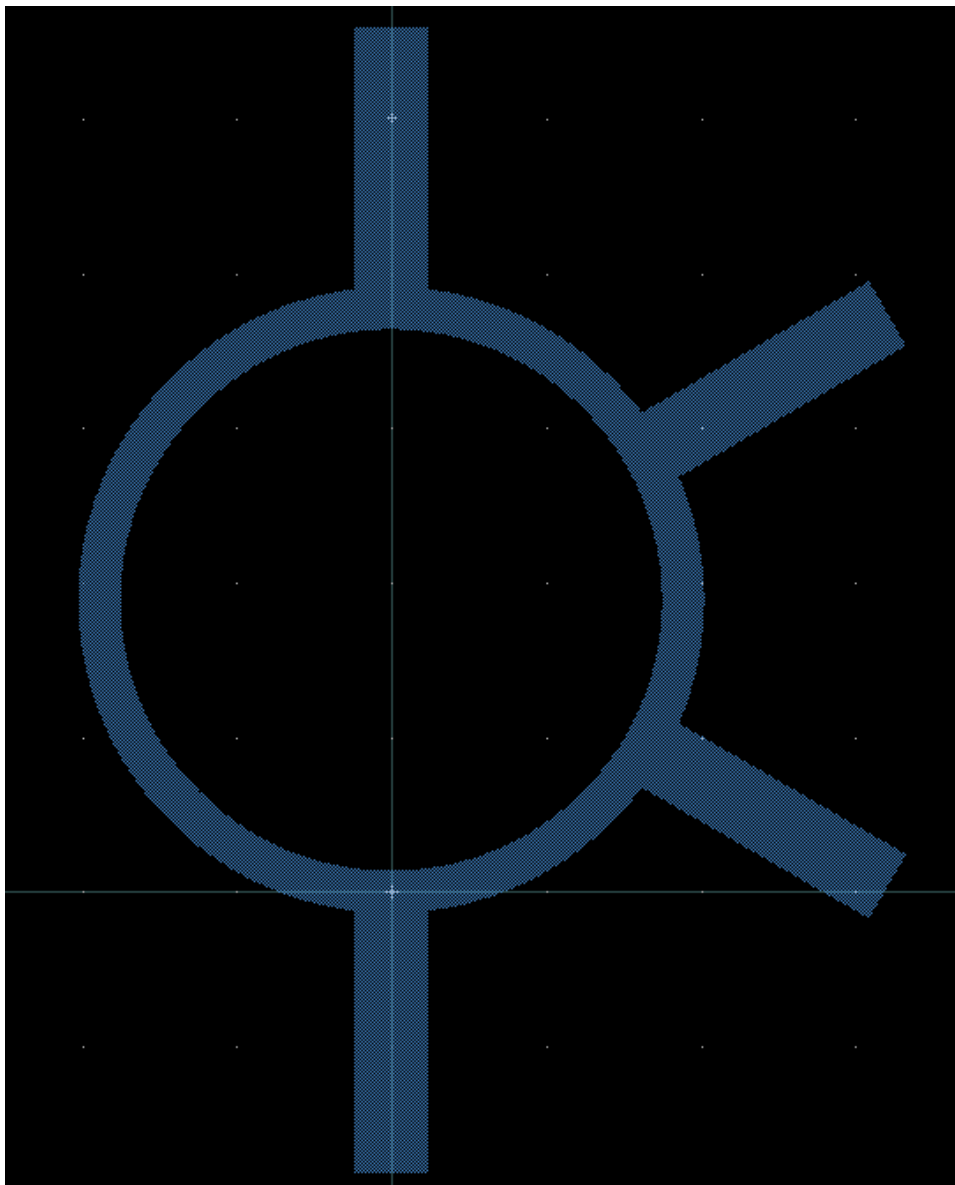
1. Design a 180 degree Coupler using Microstrip line. (The operating frequency is also 3 GHz).

Schematic:

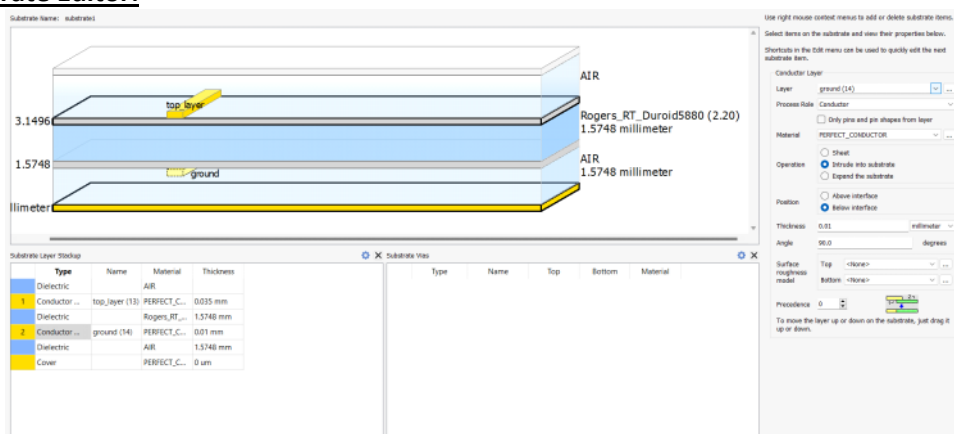
Design the power divider for 50 ohm and 70.7 ohm lines.



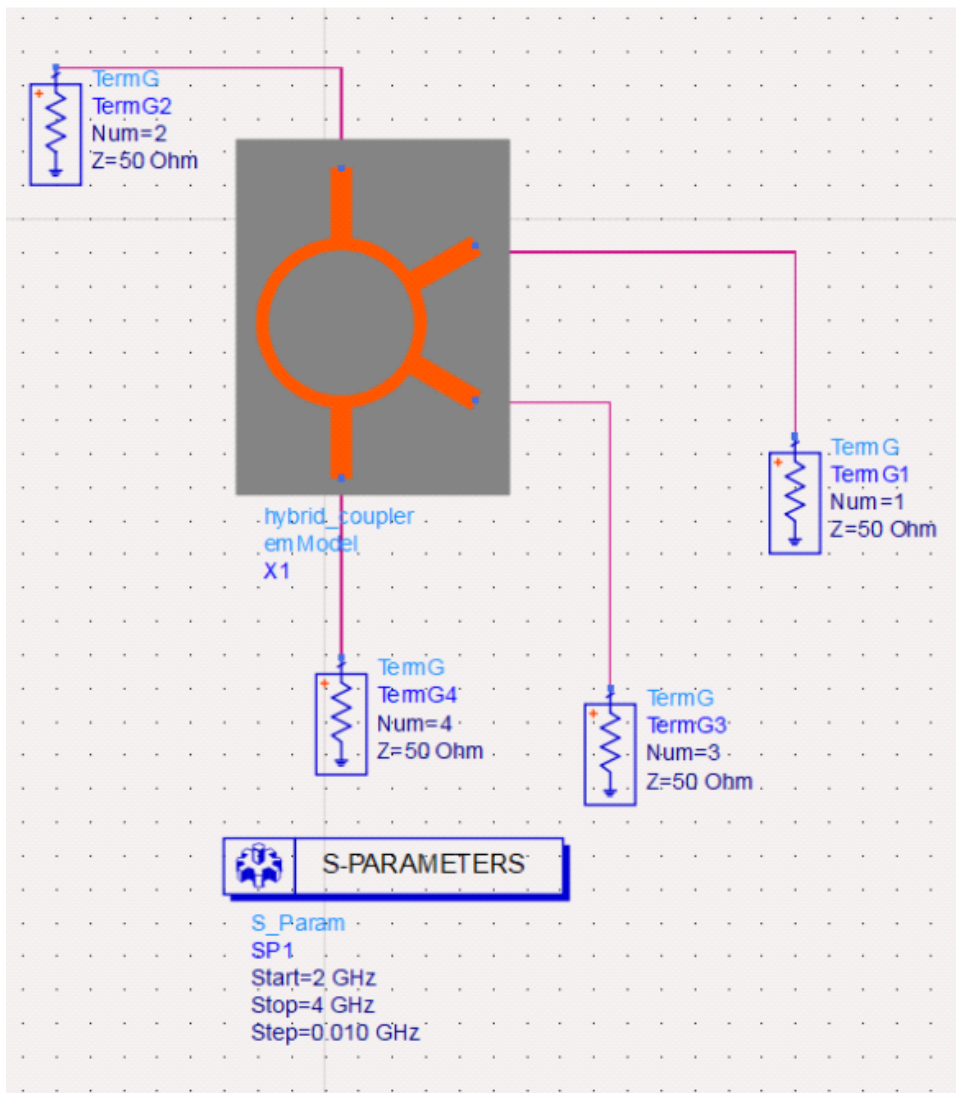
Layout:



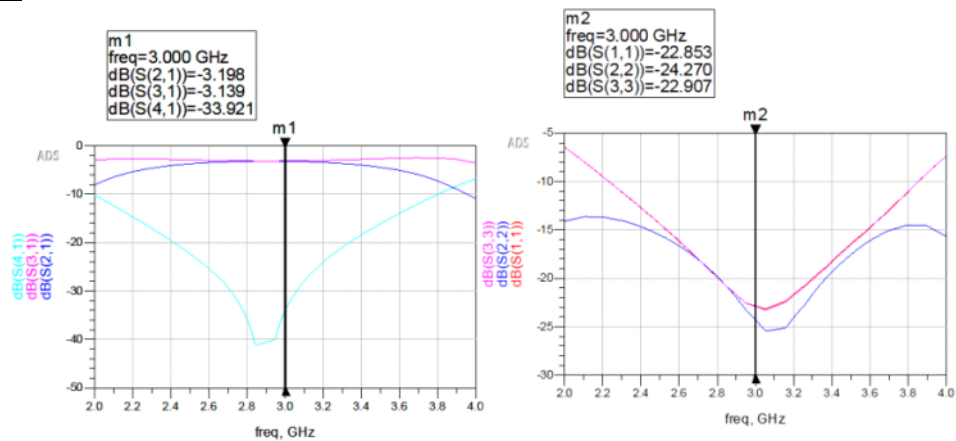
Substrate Editor:



Symbol:



Tuning:



Result:

S11 = -22.853 dB, S22 = -24.270 dB, S33 = -27.907 dB
 S21 = -3.198 dB, S31 = -3.139 dB