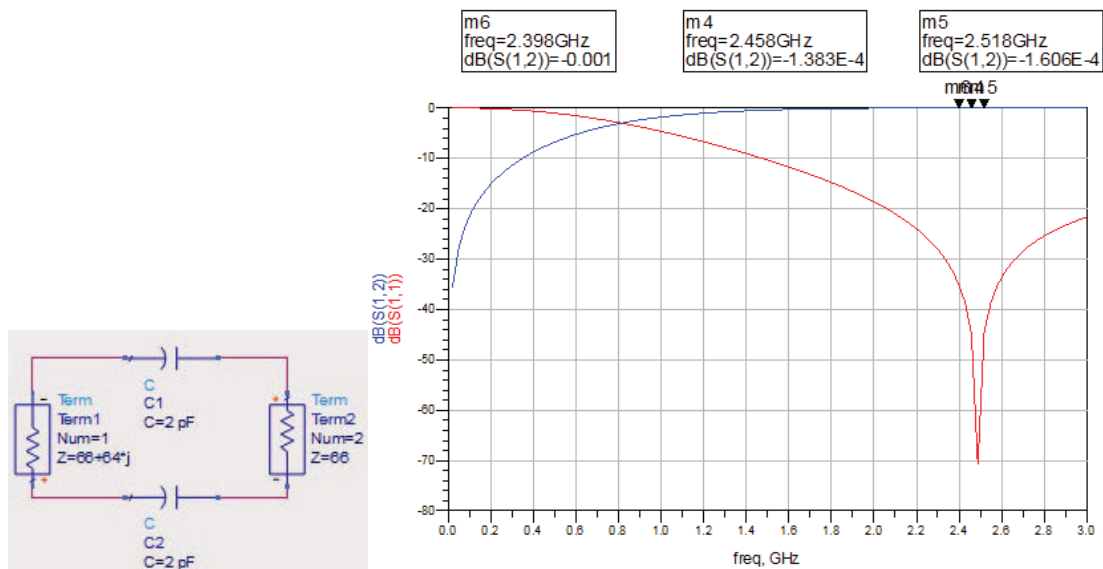


Place the 2pF capacitors on the each trace of the differential pair:



Finally, according to the  $S(1,1)$  and  $S(1,2)$ , the Term1  $66 + j64$  Ohm is well matched to the Term2 66 Ohm. C1 and C2 also works as the DC blocking capacitors which prevent the flow of DC signals into the following RF circuits.

### Part III: LC Balun

The CC2538 differential impedance  $66 + j64$  Ohm had been matched to 66 Ohm in the Part II. In the Part III, we are going to match the impedance