



The RX matching structures were modeled. Simulation results are shown in the Figure 2, Figure 3, and Figure 4. The RX Impedance of MMIC is  $Z_{RX} = 104.667 + 38.391j$  Ohm @ 24GHz.

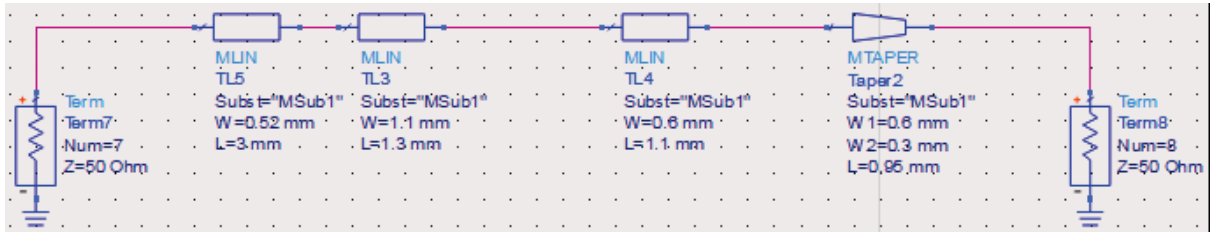


Figure 2: Schematic of the RX Matching Structures with unknown RX Impedance of MMIC



Figure 3: Layout of the RX Matching Structures

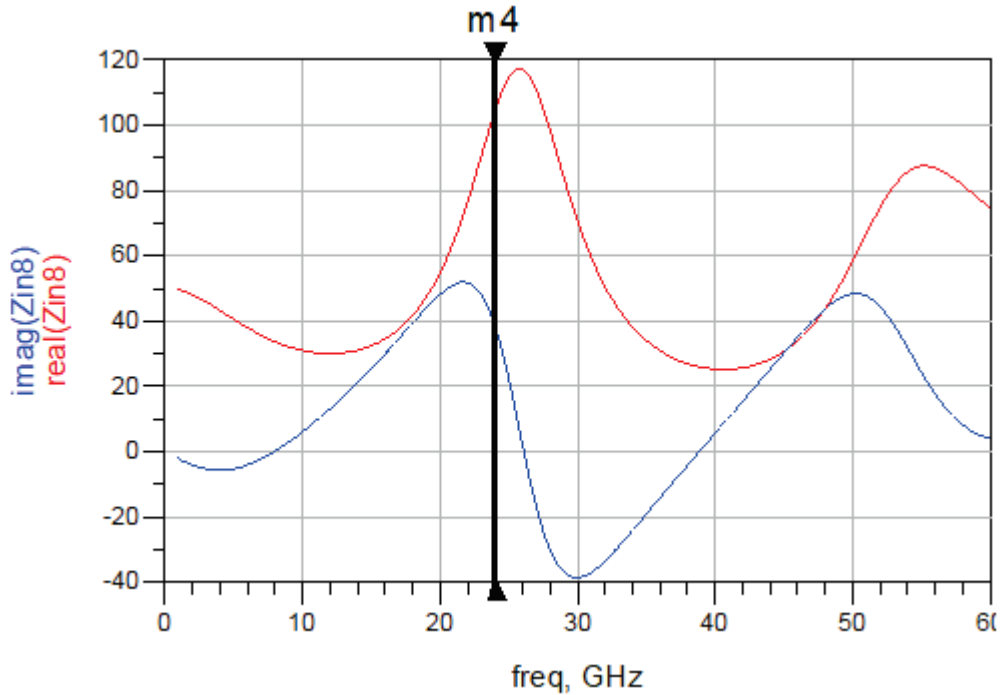


Figure 4: The RX Impedance of MMIC

## 2. The Performance of the RX Matching Structure

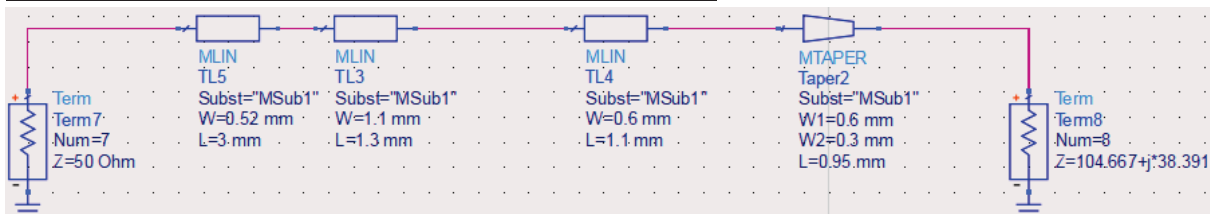


Figure 5: Schematic of the RX Matching Structures with  $Z_{RX} = 104.667 + 38.391j$  Ohm