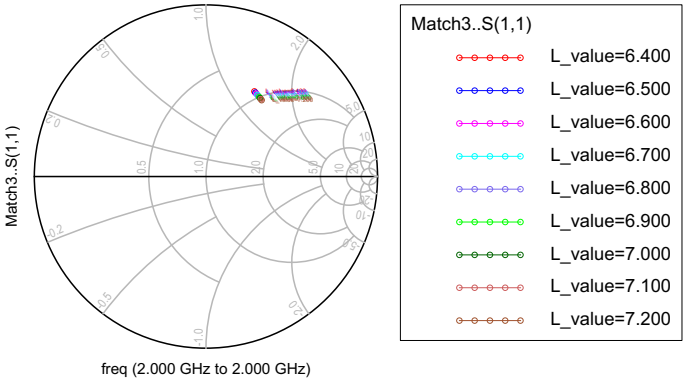
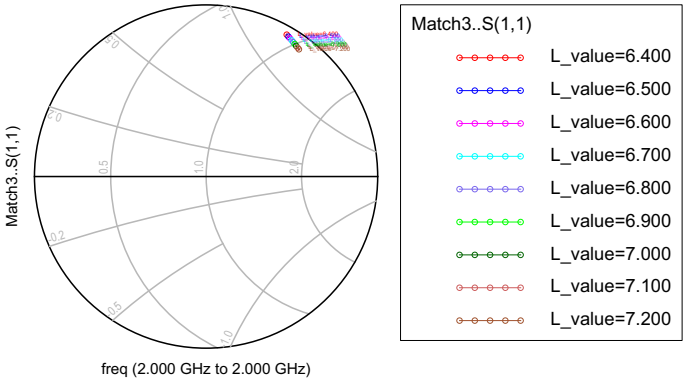
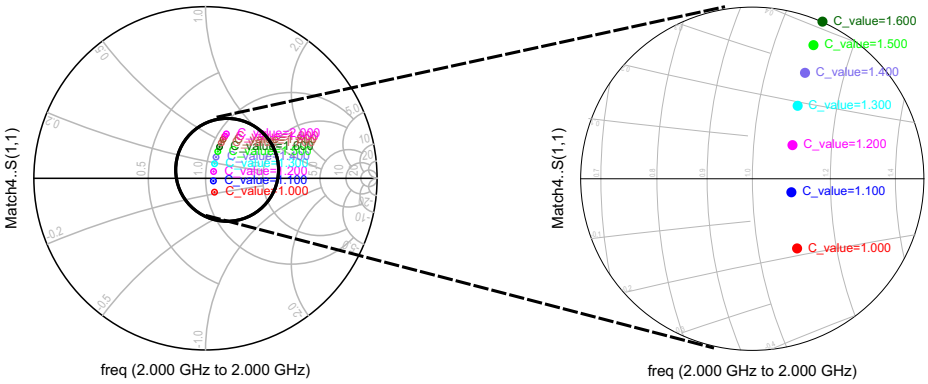




An output matching inductor around 16 nH to 18 nH will result in close to a 50 Ohm real part for the amplifier S11. 6.9 nH is chosen because it's the closest standard value.

The next step is to calculate the series capacitance needed to compensate the reactive term (see Match4.dsn).



In Match4.dsn, sweeping the series output capacitor shows Cout=1.1pF gives the best match.