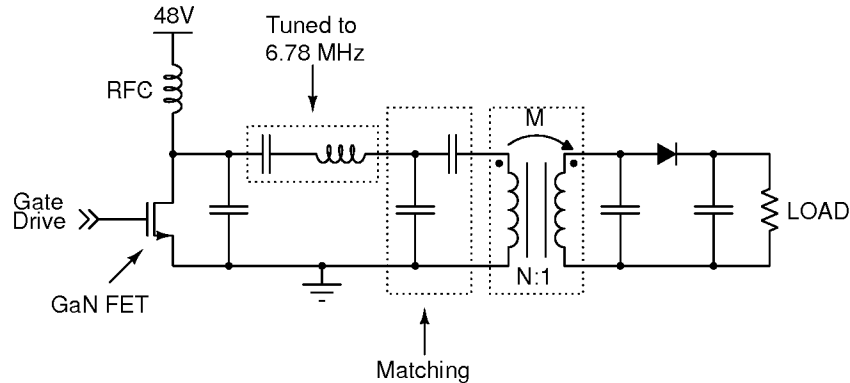
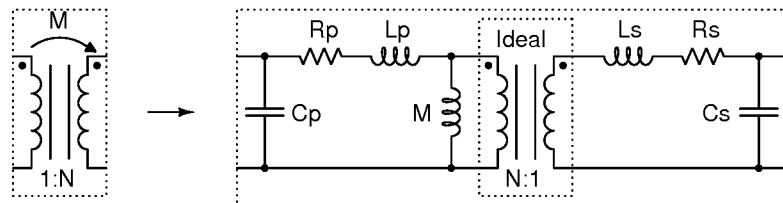


Class E Amplifier circuit with Transformer and Secondary Load/Rectifier

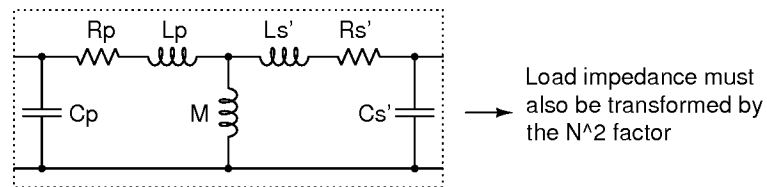


Non - Ideal Transformer Model



L1 = Primary Inductance, L2 = Secondary inductance  
Lp and Ls are primary and secondary leakage inductances  
M is Mutual inductance  
 $L1 - M = Lp$ ,  $L2 - M = Ls$

Lumped Equivalent Model of Non-ideal Transformer



$Ls'$ ,  $Rs'$  and  $Cs'$  are the transformed values of  $Ls$ ,  $Rs$ ,  $Cs$  looking into the primary side of the ideal transformer (transformed by a  $N^2$  ratio)