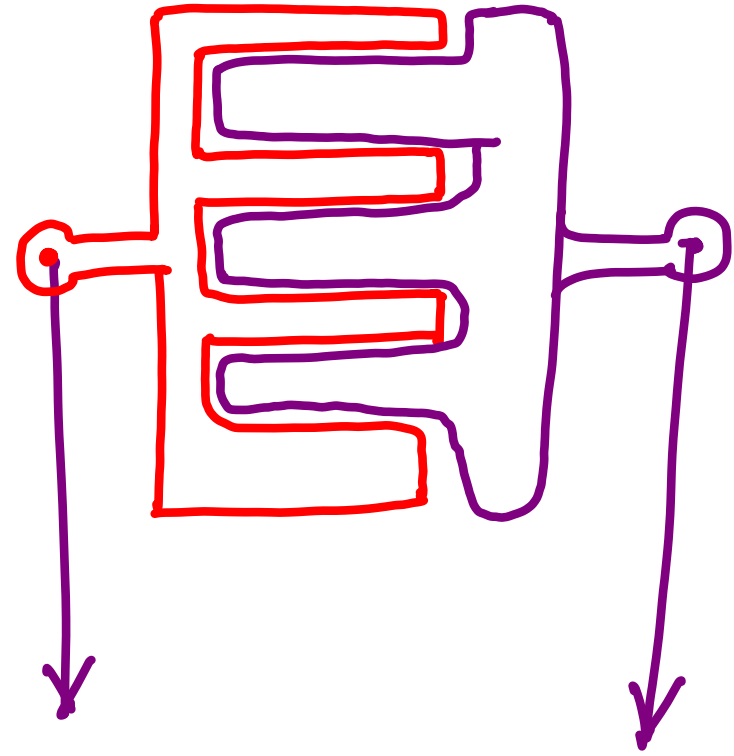
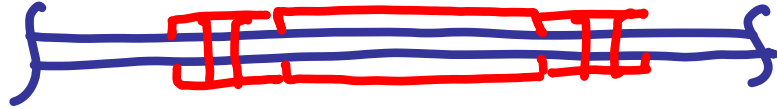


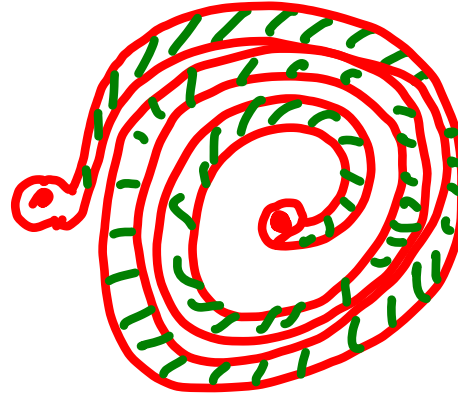
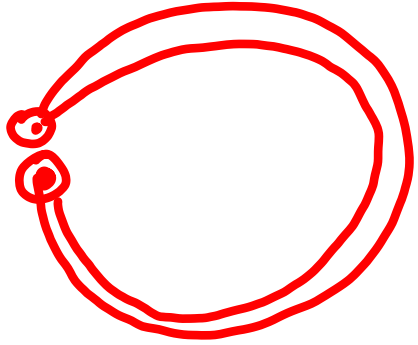
$$R_s = Z_w = \sqrt{\frac{L/cm}{C/cm}}$$

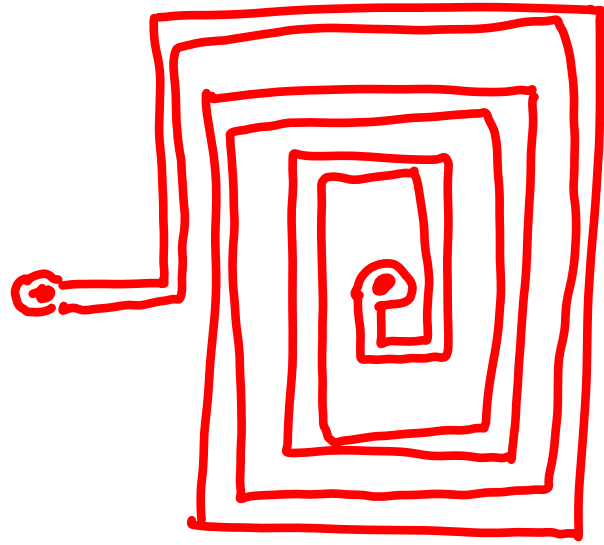
$$Z_w = R_o$$

Printed Capacitor

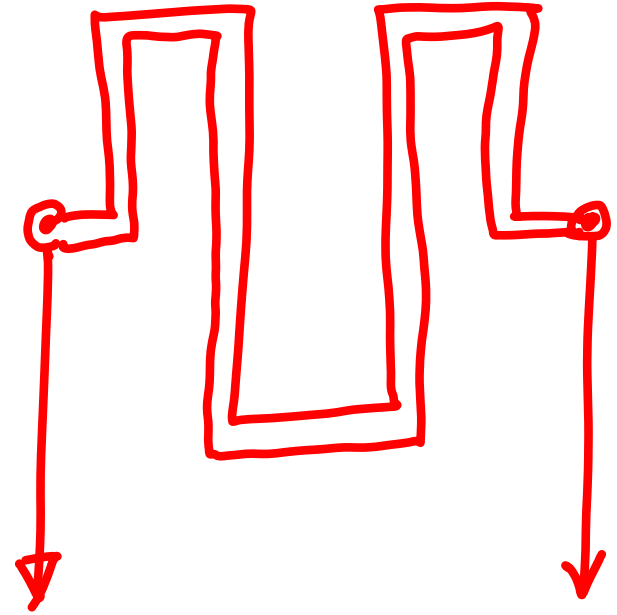


Printed Inductors



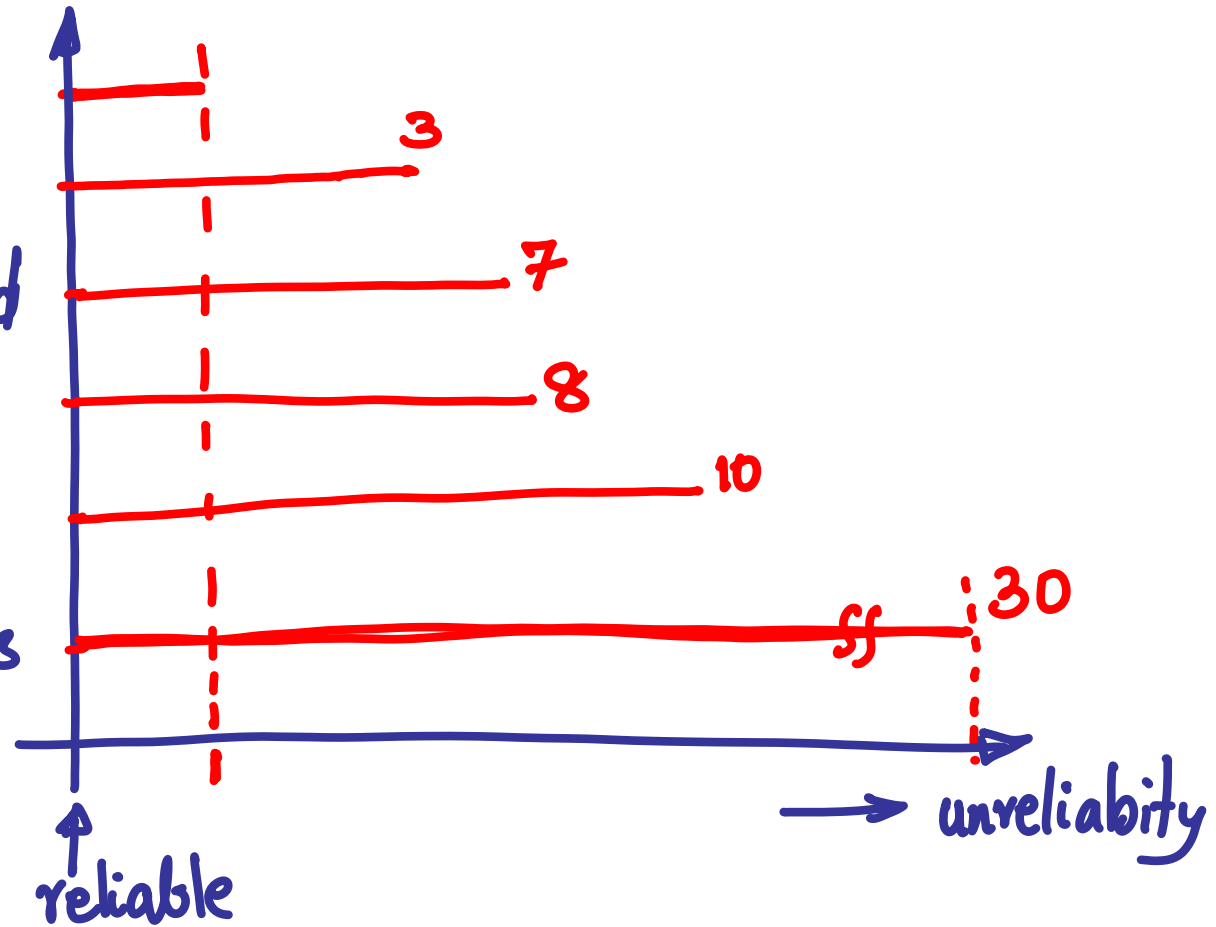


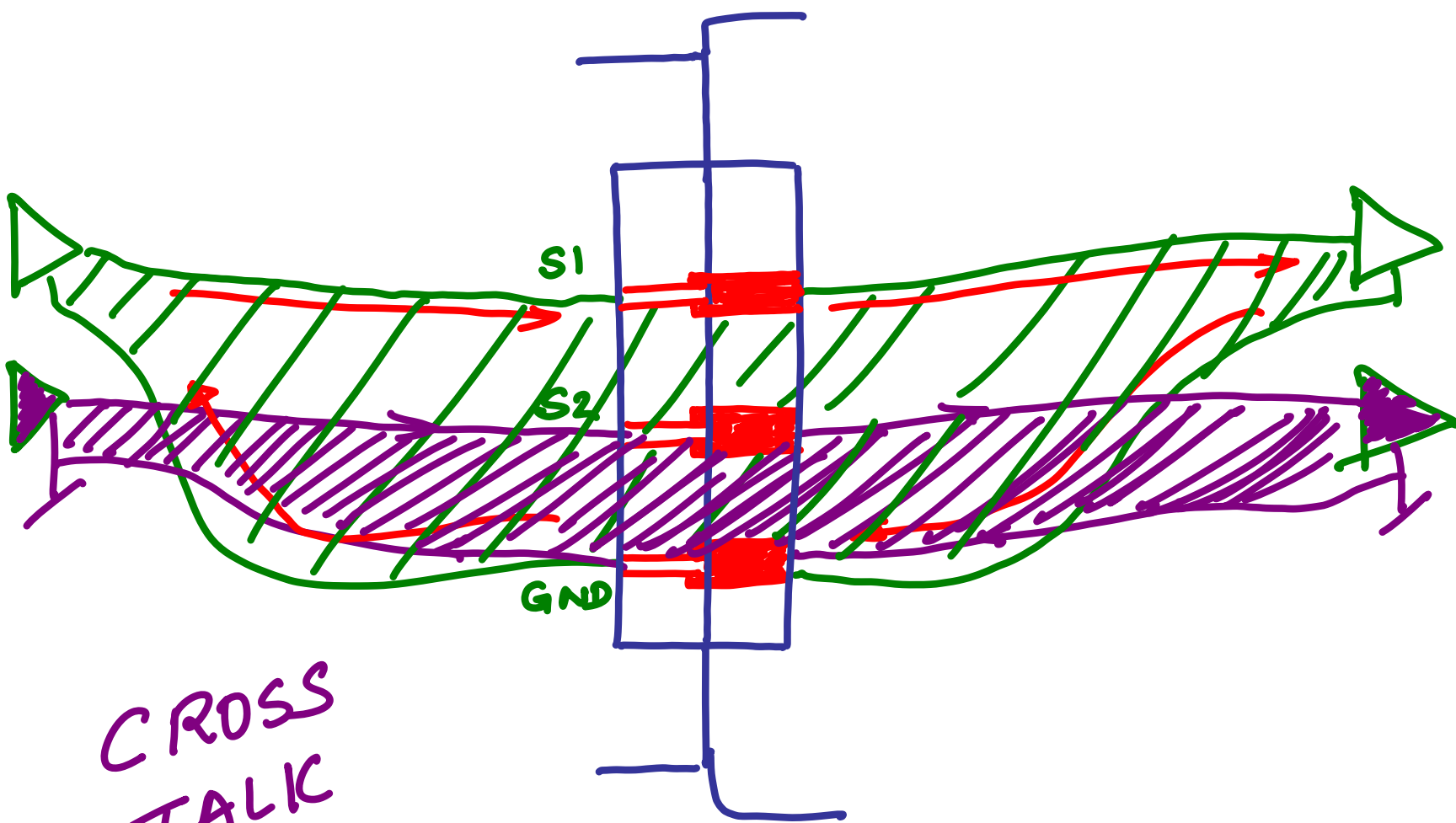
L



Connectors

1. Wrapped Joints
2. Welded joints
3. Machine soldered
4. Crimped Joints
5. Hand soldered
6. Edge connectors





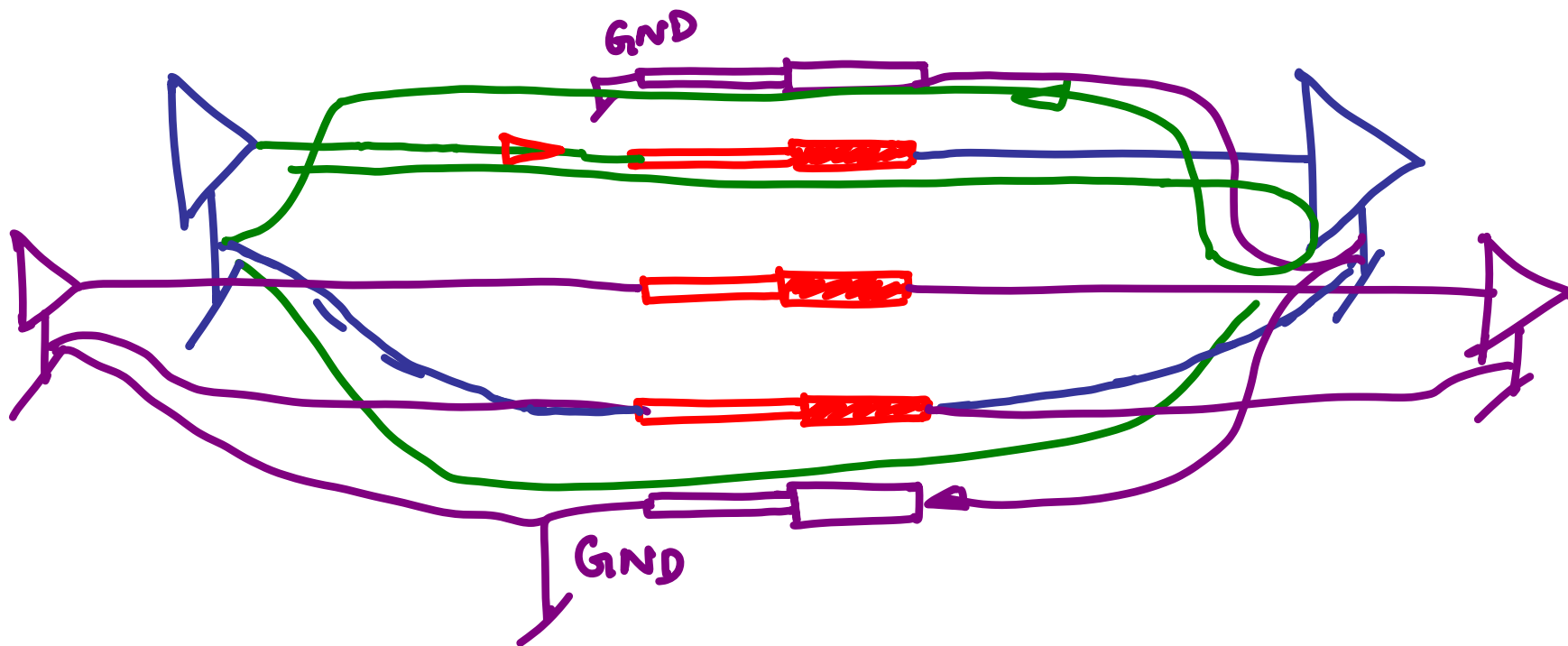
CROSS
TALK

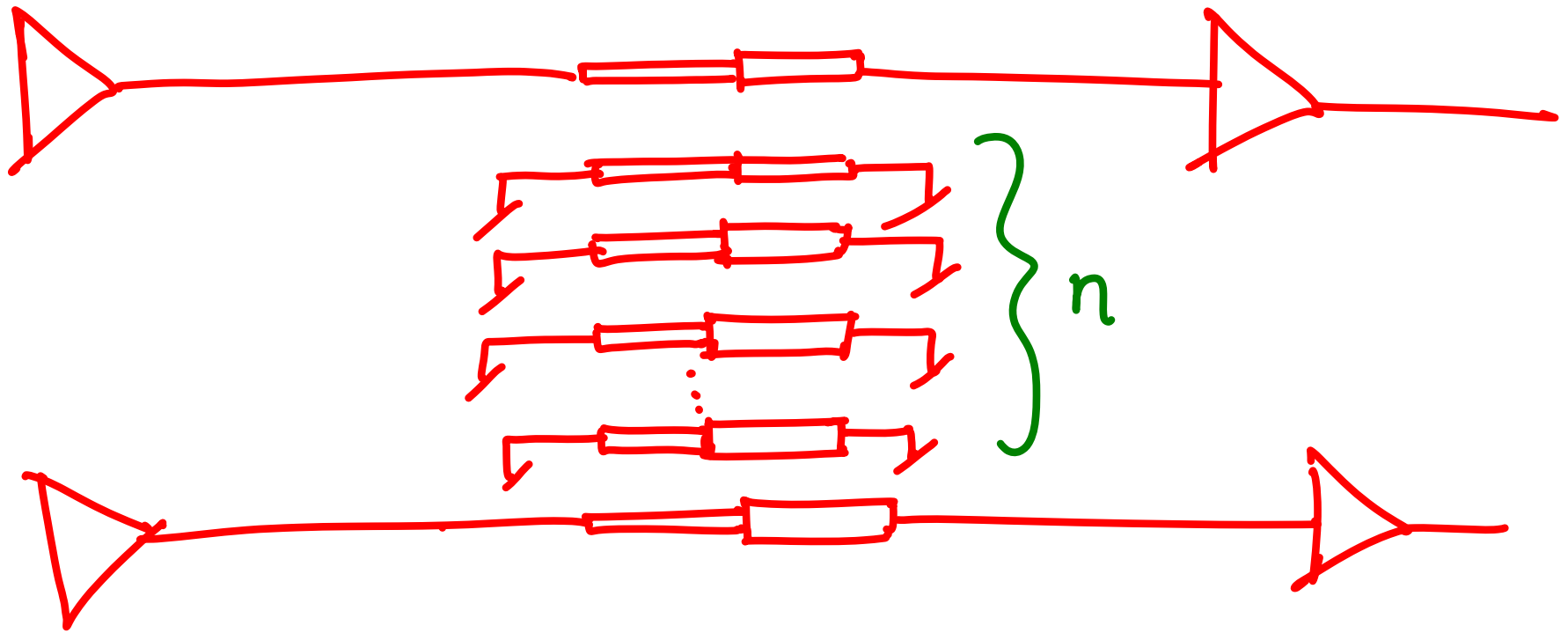
cross talk \Rightarrow $\left(\begin{array}{c} \text{Mutual} \\ \text{Inductance} \end{array} \right) \cdot \frac{di}{dt}$

$\left(\begin{array}{c} \text{Loop} \\ \text{Area} \end{array} \right)$

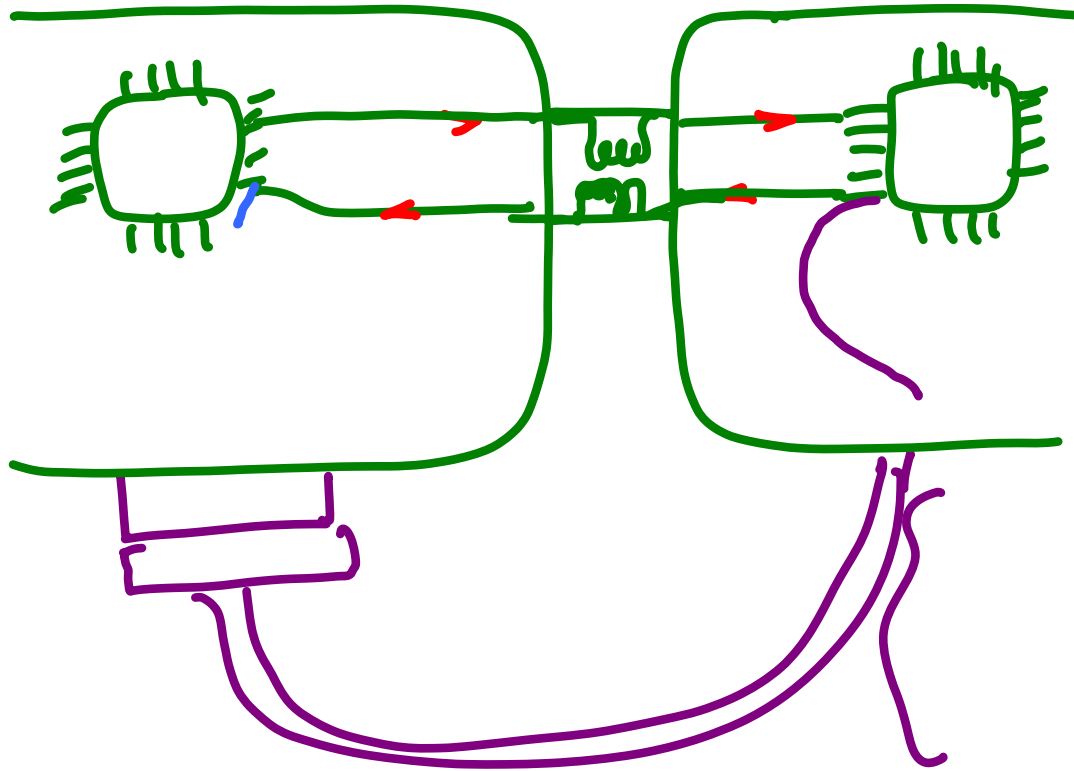
\Downarrow
reduce

\Downarrow
reduce





$$\frac{1}{n^2 + 1}$$



Reduce
Loop
area

high power line

guard line

