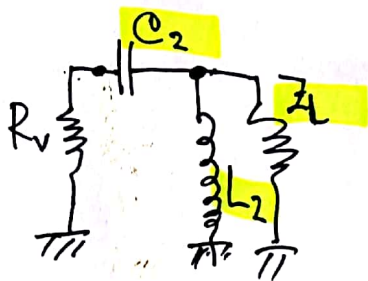


* IMC - 2 : Menyepadan kan R_v dengan Z_L

$$Q_2 = \sqrt{\frac{R_p}{R_s} - 1} = \sqrt{\frac{50}{1.92} - 1} = 5 \Rightarrow Q_{s2} = Q_{p2} = Q_2 = 5$$

$$Q_{s2} = \frac{X_{s2}}{R_{s2}} \Rightarrow X_{s2} = R_{s2} \cdot Q_2 = R_v \cdot Q_2 = 1.92 \times 5 = 9.6 \Omega$$

$$C_2 = \frac{1}{2\pi \cdot 50 \cdot 10^6 \cdot 9.6} = 3.3 \cdot 10^{-10} \text{ F} = 330 \text{ pF}$$



$$Q_{p2} = \frac{R_{p2}}{X_{p2}} \Rightarrow X_{p2} = \frac{R_{p2}}{Q_{p2}} = \frac{50}{5} = 10 \Omega$$

$$L_2 = \frac{10}{2\pi \cdot 50 \cdot 10^6} = 3.18 \cdot 10^{-8} \text{ H} = 31.8 \text{ nH}$$

$C = C_1$ seri dengan C_2

$$C = \frac{C_1 \times C_2}{C_1 + C_2} = \frac{330 \text{ p} \times 330 \text{ p}}{2 \times 330 \text{ p}} = 165 \text{ pF}$$

