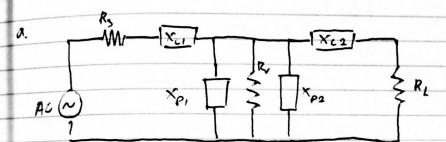
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M. Vlasysm Abddlah 8. 1101191095



$$Q_p = \frac{R_p}{X_{p_1}} \longrightarrow X_{p_1} = \frac{R_v}{Q_{kei}}$$

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L Kanan

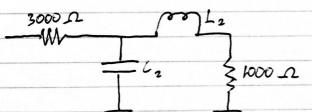
$$R_{\nu} = \sqrt{\frac{R_{\nu}}{R_{\perp}}} = \sqrt{\frac{3000}{1000}} = \sqrt{2}$$

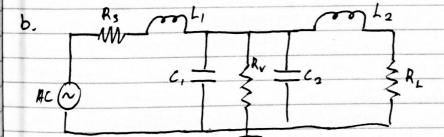
$$L_2 = \frac{\sqrt{2} \cdot 1000}{2.3,14.10^9} = 225 \text{ nH}$$

$$Q_{p} = \frac{R_{p}}{X_{p_{2}}} \rightarrow \frac{X_{p_{2}}}{Q_{konun}} = \frac{R_{V}}{Q_{konun}}$$

$$\frac{1}{2R_{p}C_{2}} = \frac{3000}{\sqrt{2}}$$

$$C_2 = \frac{\sqrt{2}}{2.3,14.10^9.3000} = 0,075 \text{ pF}$$





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$$BW = \frac{f}{Q} = \frac{10^9}{\sqrt{10}} = 229.415.733,9 \quad H_2$$

$$= 229 \quad MH_2$$