



$$R_1 = 200 \Omega$$

$$R_2 = 200 \Omega$$

$$L = 100 \text{ mH}$$

$$C = 1,0 \mu\text{F}$$

$$Z_1 = R_1 + j\omega L$$

$$\omega = 5000 \text{ RAD/S}$$

$$\rightarrow Z_1 = 200 + j500 \Omega$$

$$Z_2 = \frac{\frac{1}{j\omega C} \cdot R_2}{\frac{1}{j\omega C} + R_2} =$$

$$= \frac{R_2}{1 + j\omega C R_2}$$

$$\rightarrow Z_2 = \frac{200(1-j)}{(1+j)(1-j)} = 100 - j100 \Omega$$

$$P = P_1 + P_2$$

$$P_1 = \text{Re } Z_1 \cdot J^2 = 200 J^2$$

$$P_2 = \text{Re } Z_2 \cdot J^2 = 100 J^2$$

$$\left. \begin{array}{l} P_1 = 200 J^2 \\ P_2 = 100 J^2 \end{array} \right\} P_1 = 2P_2$$

$$\rightarrow \underset{\substack{\uparrow \\ 3,0 \text{ W}}}{P} = 2P_2 + P_2 \rightarrow \underline{P_2 = 1,0 \text{ W}}$$