## Effective value

$$
u=\frac{\hat{u}}{\sqrt{2}}
$$

Impedance of Coil

$$
Z_{L}=\omega \cdot L
$$

Capacitor impedance

$$
Z_{C}=\frac{1}{\omega C}
$$

Total impedance

$$
\begin{gathered}
Z=\sqrt{\left|Z_{L}-Z_{C}\right|^{2}+R^{2}} \\
Z=\frac{u}{i}
\end{gathered}
$$

Resonance

$$
f_{\text {res }}=\frac{1}{2 \pi \sqrt{L C}}
$$

