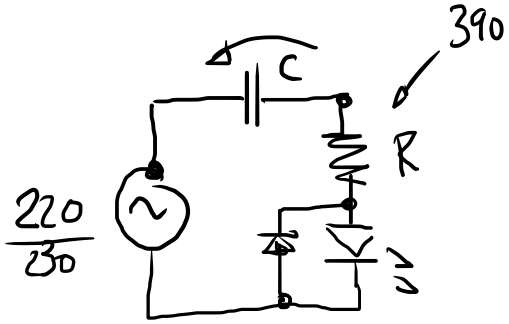
LED 230 V



$V = I Z$

$X_C = \frac{1}{\omega C} = \frac{1}{2\pi f \cdot C}$ [Ω]

230 ~ 225

$Z = \frac{V}{i} = \frac{225}{10\,mA} = 22500\,\Omega$ 22,5 kΩ

$C = \frac{1}{2\pi \cdot 50 \cdot 22{,}5 \cdot 10^3} = \frac{1}{\pi \cdot 22{,}5 \cdot 10^5} = 14{,}1 \cdot 10^{-9} = 14{,}1\,nF$

($2\pi \cdot 50 \approx 10^2$)

≈

↓

100/150 nF