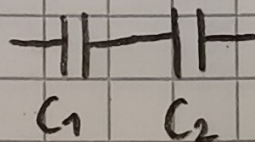


C44

geg.:  $C_1 = 0,1 \mu F$

$C_2 = 2,2 \mu F$



$C_{\min} = C_1$

$U_{\max} = 100 V$  Nennspannung

Nennspannung  $< 100 V$  pro Kondensator

$$Q = U_1 \cdot C_1 = U_2 \cdot C_2 \rightarrow 0,1 \mu F \cdot U_1 + 2,2 \mu F \cdot U_2$$

$$Q_{\max} = C_{\min} \cdot U_{\max} = 0,1 \mu F \cdot 100 V = \underline{\underline{10 \mu C}}$$

$$U_2 = \frac{Q_{\max}}{C_2} = \frac{10 \mu C}{2,2 \mu F} = \underline{\underline{4,54 V}}$$

$$U_{\text{ges}} = U_1 + U_2 = 100 V + 4,54 V = \underline{\underline{104,54 V}}$$