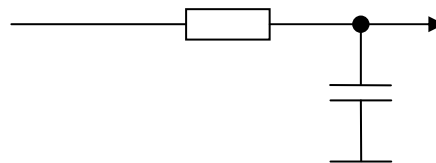


Gleichspannung

$$1\tau = R \times C$$



Wechselspannung

$$X_C = \frac{1}{2\pi \times f \times C}$$

Beispiel: Frequenz 100MHz Kondensator 10pf

$$X_C = \frac{1}{6,28 \times 100 \times 10^6 \times 10 \times 10^{-12}}$$

$\downarrow \quad \downarrow \quad \downarrow \quad \downarrow$
 $= 10^3 \qquad 10^6 \times 10^{-12} = 10^{-6} \times 10^3 = 10^{-3}$

$$\frac{1}{10^{-3}} = 10^3 \quad \text{Ergebnis in k}\Omega$$

$$X_C = \frac{1}{6,28 \times 1 \times 1} = \underline{\underline{0,159 \text{ k}\Omega}} \quad \text{oder} \quad \underline{\underline{159\Omega}}$$