Uo=12V, Uc, 1= 40 + 10 + 500 Hz, Ic, = 2mA, V= 5

Aus Detenblatt:

B= hFE = 110 , B= h & = 250 , rOE = hie = 4 k.R , UBE = VBE(cm) = G50 mV

Uo = Uac+ UciA

$$R_{c} = \frac{u_{Rc}}{l_{CA}} = \frac{u_{0} - u_{CA}}{l_{CA}} = \frac{GV}{2mA} = \frac{3K\Omega}{m} \quad \text{if } V = \frac{Rc}{RE} \quad \text{if } R_{E} \approx \frac{Rc}{V} = \underbrace{0_{1}G \, k\Omega}_{C}$$

$$u_{B_1A} = u_{BE} + u_{RE} = c_{165}V + R_{E}|_{C_1A} = \frac{165}{165}V \sim \frac{R_2}{R_4} = \frac{u_{B_1A}}{u_{0} - u_{B_1A}} = \frac{165}{160} \approx \frac{c_{118}}{160}$$

$$l_{0} = \frac{l_{c}}{B} \approx \frac{l_{c}}{\beta} \approx l_{2} \approx 10 l_{3} = 10 \frac{l_{c}}{\beta} \Rightarrow R_{2} = \frac{u_{G,A}}{l_{2}} = \frac{185v}{2mA} \approx \frac{250}{10} \approx \frac{23 \text{ u.s.}}{2mA}$$

$$\approx R_{A} \approx 130 \text{ u.s.}$$

Weste aus Erz-Reine:

$$R_c = 2.7 \text{ kg}$$
 $R_A = 120 \text{ kg}$, $R_Z = 22 \text{ kg}$ $R_E = 560 \Omega$ $R_E' = 0$ (wrzgeschlossen)

$$r_{e} = \left[\frac{A}{\Omega_{\Lambda}} + \frac{A}{\Omega_{\lambda}} + \frac{A}{r_{0E} + \beta \left(\frac{A}{\Omega_{E}} + \frac{A}{\Omega_{E}} \right)^{-A}} \right]^{-A} = 3.3 \text{ kg}$$

$$\frac{A}{r_{e} - \infty} = 3.3 \text{ kg}$$

$$C_{\text{ale}} = \frac{10}{\text{wnfn } \text{ fale}} = \frac{10}{\text{2 tr frain } \text{ fale}} = 7 \text{ Ce } 2 \frac{5\mu\text{F}}{\text{1}}, \text{ Ca } 2 \frac{6\mu\text{F}}{\text{2 tr frain } \text{ fale}}$$

$$C_{\text{E}} \gg \frac{3}{\text{2 tr frain } \text{ fale}} = \frac{100 \mu\text{F}}{\text{2 tr frain } \text{ fale}}$$

werte ous E3-Reihe: Ca=Ce=4,7 uF