

258.27

$$T_w = 0.7 \times 3.3k\Omega \times 200pF$$

$$= 0.7 \times 3.3 \times 200 \times 10^3 \times 10^{-12}$$

$$= 4.62 \times 10^{-6} s = 4.62 \mu s$$

258.28

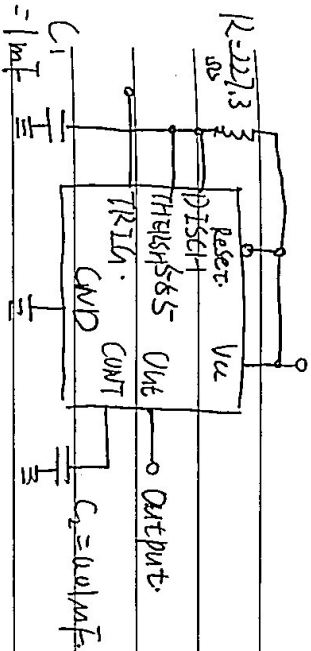
$$t_w = 0.32 R \cdot 10000 \times 10^{-12} \times \left(1 + \frac{R_2}{R}\right) = 5 \times 10^{-6}$$

$$\Rightarrow R = 1561.8 \Omega$$

258.29

$$t_w = 1.1 R_{EXT} C_{EXT}$$

$$\text{choose } C_{EXT} = 1 \mu F, \text{ so } R_{EXT} = 227.3 \Omega$$



这个要背下来怎么画吗

258.30

$$t_H = 0.7 (R_1 + R_2) C = 2.24 \times 10^3 \times 10^{-8} = 2.24 \times 10^{-5} s$$

$$t_L = 0.7 R_2 C = 1.54 \times 10^{-5} s$$

$$\therefore f = \frac{1}{t_H + t_L} = 2.6 \times 10^4 Hz$$

258.31

$$\left\{ \begin{aligned} \frac{R_1 + R_2}{R_1 + 2R_2} &= \frac{3}{4} \\ f &= \frac{1.44}{0.1(R_1 + 2R_2)C} = 20kHz \end{aligned} \right.$$

$$\frac{(R_1 + 2R_2) \cdot 2 \times 10^4}{36000} = \frac{1.44}{20000}$$

$$R_1 + R_2 = 2700 \Omega$$

$$\Rightarrow \left\{ \begin{aligned} R_1 &= 1800 \Omega \\ R_2 &= 900 \Omega \end{aligned} \right.$$