

$$R2 := \frac{Rf' \cdot Rf''}{Rf' - Rf'''} = 67.123 \text{ k}\Omega$$

$$R3 := \frac{Rf'' \cdot Rf'''}{Rf''' - Rf'''} = 54.896 \text{ k}\Omega$$

$$Rf' := \frac{R1 \cdot Rf}{R1 + Rf} = 14.951 \text{ k}\Omega$$

$$Rf''' := \frac{R2 \cdot Rf'}{R2 + Rf'} = 12.227 \text{ k}\Omega$$

$$Rf''' := \frac{R3 \cdot Rf'''}{R3 + Rf'''} = 10 \text{ k}\Omega$$

$$R1 = 82.074 \text{ k}\Omega$$

$$R2 = 67.123 \text{ k}\Omega$$

$$R3 = 54.896 \text{ k}\Omega$$

$$fHigh := 1000 \text{ Hz}$$

$$fLow := 55 \text{ Hz}$$

$$f_Llogstep := \frac{1}{3} \log \left( \frac{fHigh}{fLow} \right) = 0.42$$

$$p1 := fLow = 55 \text{ Hz}$$

$$p2 := p1 \cdot 10^{1 \cdot f_Llogstep} = 144.624 \text{ Hz}$$

$$p3 := p1 \cdot 10^{2 \cdot f_Llogstep} = 380.295 \text{ Hz}$$

$$C1 := \frac{1}{(R1 + Rf) \cdot 2 \cdot \pi \cdot p1} = 28.835 \text{ nF}$$

$$P4 := p1 \cdot 10^{3 \cdot f_Llogstep} = 1000 \text{ Hz}$$

$$C2 := \frac{1}{(R2 + Rf') \cdot 2 \cdot \pi \cdot p2} = 13.408 \text{ nF}$$

$$C3 := \frac{1}{(R3 + Rf'') \cdot 2 \cdot \pi \cdot p3} = 6.235 \text{ nF}$$