Med	d 3 RC-led	$GaindB \coloneqq 2.62 \cdot 4 = 10.48$
		$fHigh \coloneqq 1000 \; \textbf{\textit{Hz}}$
Ri::	$=10 \ k\Omega$	$fLow = 20 \; Hz$
nes	$G0 \coloneqq 1$	GaindB
₩	$20 \cdot log(G0) = GaindB$	$G0 = 10^{-20} = 3.342$
# <u>P</u>		
Soctor	G0 := Find(G0) = 3.342	G0 = 3.342
S	ao 1 ma (ao) 3.312	0.012
	$Rf := Ri \cdot G0 = 33.42 \text{ k}\Omega$	
(	$G0.6 = GaindB \cdot \frac{2}{3} = 6.987$	$G0.3 = GaindB \cdot \frac{1}{3} = 3.493$
	3	3
νΠ		
Soctoonseessines	$G1 \coloneqq 1$	G0.6
3. Mg	$20 \cdot log(G1) = G0.6$	$G1 \coloneqq 10^{-20} = 2.2353$
IS EES		
	G1 := Find(G1) = 2.2353	G1 = 2.2353
Š		
νſ		
e Re	$G2 \coloneqq 1$	G0.3
<u>₹</u>	$20 \cdot log(G2) = G0.3$	$G2 \coloneqq 10^{-20} = 1.4951$
Soctooning		
8	G2 := Find(G2) = 1.4951	G2 = 1.4951
Ŋ,		
N.		
ES I	G3 := 1	0 20
<u>`</u>	$20 \cdot log(G3) = 0$	$G3 := 10^{20} = 1$
Sockensersilvalues		
8	G3 := Find(G3) 1	G3=1
S		
	$Rf' := G1 \cdot Ri = 22.353 \text{ k}\Omega$	
	$Rf'' := G2 \cdot Ri = 14.951 \text{ k}\Omega$	
	$Rf''' \coloneqq G3 \cdot Ri = 10 \ \boldsymbol{k\Omega}$	

$$R1 \coloneqq \frac{Rf \cdot Rf'}{Rf - Rf''} = 67.502 \text{ k}\Omega$$

$$R2 \coloneqq \frac{Rf' \cdot Rf'''}{Rf' - Rf'''} = 30.198 \text{ k}\Omega$$

$$R3 \coloneqq \frac{Rf'' \cdot Rf'''}{R^2 + Rf} = 30.198 \text{ k}\Omega$$

$$Rf' \coloneqq \frac{R1 \cdot Rf}{R1 + Rf} = 22.353 \text{ k}\Omega$$

$$Rf''' \coloneqq \frac{R2 \cdot Rf'}{R2 + Rf'} = 14.951 \text{ k}\Omega$$

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

$$R1 = 67.502 \text{ k}\Omega$$

$$R2 = 45.149 \text{ k}\Omega$$

$$R3 = 30.198 \text{ k}\Omega$$

$$fHigh \coloneqq 1000 \text{ Hz}$$

$$fLow \coloneqq 55 \text{ Hz}$$

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

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

$$p2 \coloneqq p1 \cdot 10^{1 \cdot f \cdot Jogetep} = 144.624 \text{ Hz}$$

$$p3 \coloneqq p1 \cdot 10^{2 \cdot f \cdot Jogetep} = 380.295 \text{ Hz}$$

$$C1 \coloneqq \frac{1}{(R1 + Rf) \cdot 2 \cdot \pi \cdot p1} = 28.673 \text{ nF}$$

$$C3 \coloneqq \frac{1}{(R2 + Rf'') \cdot 2 \cdot \pi \cdot p2} = 16.303 \text{ nF}$$

$$C3 \coloneqq \frac{1}{(R3 + Rf''') \cdot 2 \cdot \pi \cdot p3} = 9.269 \text{ nF}$$