$$\begin{split} f_0 &\coloneqq 6.22 \text{kHz} \quad \text{C} := 0.015 \mu\text{F} \\ \text{R1} &\coloneqq \frac{\sqrt{2}}{\omega_0 \cdot \text{C}} \\ \text{T}(f) &\coloneqq \text{K} \cdot \frac{\left(\frac{1}{Q}\right) \cdot \left(\frac{j \cdot f}{f_0}\right)}{\left(j \cdot \frac{f}{f_0}\right)^2 + \frac{1}{Q} \cdot j \cdot \frac{f}{f_0} + 1} \end{split}$$

$$f_{\text{start}} \coloneqq 100 \text{Hz} \qquad \qquad \text{$\underset{i}{\text{N}} \coloneqq 1024$} \qquad i \coloneqq 0..\,\text{$N-1$} \quad f_{\underline{i}} \coloneqq f_{\text{start}} \cdot \left(\frac{f_{\text{stop}}}{f_{\text{start}}}\right)^{\frac{1}{N-1}}$$

$$M(f) \coloneqq 20 \cdot \log(\left|T(f)\right|) \, \phi(f) \coloneqq \frac{180}{\pi} \cdot \arg(T(f))$$



