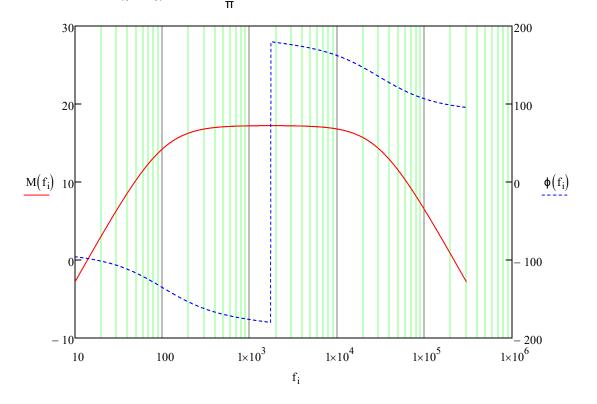
$$\text{C1} := 0.1 \mu\text{F} \qquad \text{K} := 7.3 \qquad \text{j} := \sqrt{-1} \qquad f_{lower} := 100 \text{Hz} \qquad f_{upper} := 30 \text{kHz}$$

$$R1 := \frac{1}{2\pi \cdot \text{C1} \cdot f_{lower}} \qquad Rf := K \cdot R1 \quad Cf := \frac{1}{2 \cdot \pi \cdot Rf \cdot f_{upper}}$$

$$\begin{split} & \underbrace{T(f) \coloneqq -K \cdot \frac{1}{1 + (j \cdot 2 \cdot \pi \cdot f) \cdot Rf \cdot Cf} \cdot \frac{(j \cdot 2 \cdot \pi \cdot f) \cdot R1 \cdot C1}{1 + (j \cdot 2 \cdot \pi \cdot f) \cdot R1 \cdot C1}}_{f_{start} \coloneqq 10 Hz} & \underbrace{f_{stop} \coloneqq 300 kHz} & \underbrace{N} \coloneqq 1024 \quad i \coloneqq 0 ... N - 1 \quad f_i \coloneqq f_{start} \cdot \left(\frac{f_{stop}}{f_{start}}\right)^{N-1}}_{N-1} \\ & M(f) \coloneqq 20 \cdot log(\left|T(f)\right|) \quad \phi(f) \coloneqq \frac{180}{\pi} \cdot arg(T(f)) \end{split}$$





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