

$$f_0 := 6.22\text{kHz} \quad C1 := 0.015\mu\text{F} \quad C2 := 1.5\text{nF} \quad \omega_0 := 2 \cdot \pi \cdot f_0 \quad j := \sqrt{-1} \quad Q := 3 \quad K := 1$$

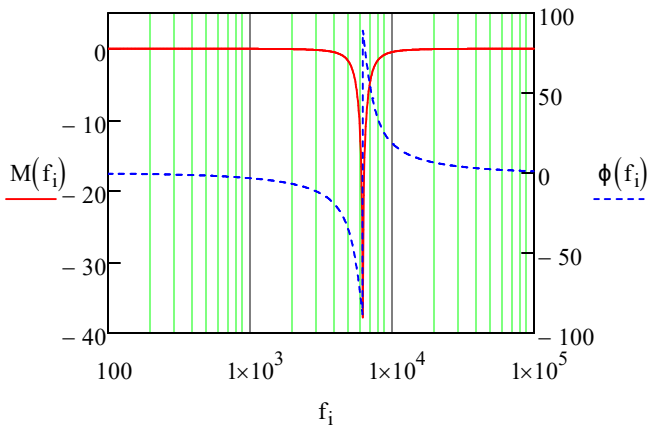
$$T(f) := K \cdot \frac{\left(j \cdot \frac{f}{f_0}\right)^2 + 1}{\left(j \cdot \frac{f}{f_0}\right)^2 + \frac{1}{Q} \cdot j \cdot \frac{f}{f_0} + 1}$$

$$f_{\text{start}} := 100\text{Hz} \quad f_{\text{stop}} := 100\text{kHz}$$

$$N := 1024$$

$$i := 0..N-1 \quad f_i := f_{\text{start}} \cdot \left(\frac{f_{\text{stop}}}{f_{\text{start}}}\right)^{\frac{i}{N-1}}$$

$$M(f) := 20 \cdot \log(|T(f)|) \quad \phi(f) := \frac{180}{\pi} \cdot \arg(T(f))$$



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