

$$R \coloneqq 10000 \cdot \Omega$$

resistance

$$C \coloneqq 0.01 \cdot \mu F$$

capacitance

$$\omega_c \coloneqq \frac{1}{R \cdot C}$$

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 $\omega_c = (1 \cdot 10^4) \frac{rad}{sec}$

cutoff frequency

$$\omega_r = \frac{\omega}{\omega_c}$$

frequency ratio

$$A\left(\omega_{r}\right)\coloneqq\frac{1}{\sqrt{\left(1+{\omega_{r}}^{2}\right)}}$$

amplitude ratio as a function of frequency ratio

$$A(1) = 0.707$$

amplitude ratio at the cutoff frequency

$$\omega_r = 0.01, 0.05..2.5$$



