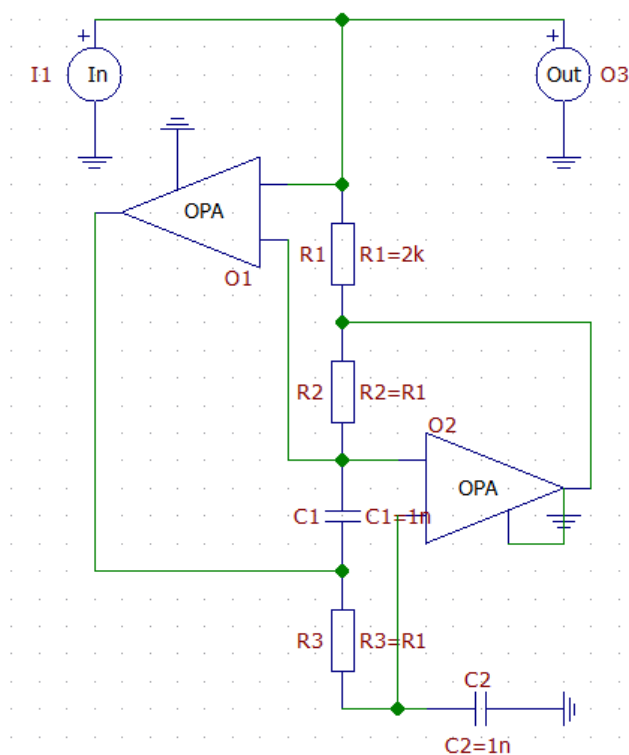


1. Symbolický výraz

1

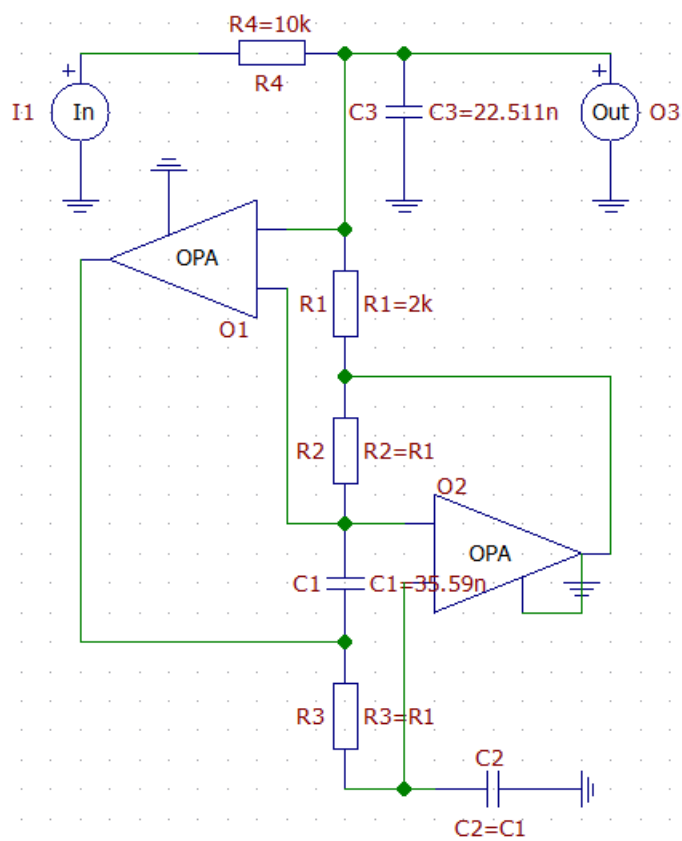
$$s^2 \cdot (R_1 \cdot C_1 \cdot C_2)$$



2.

1

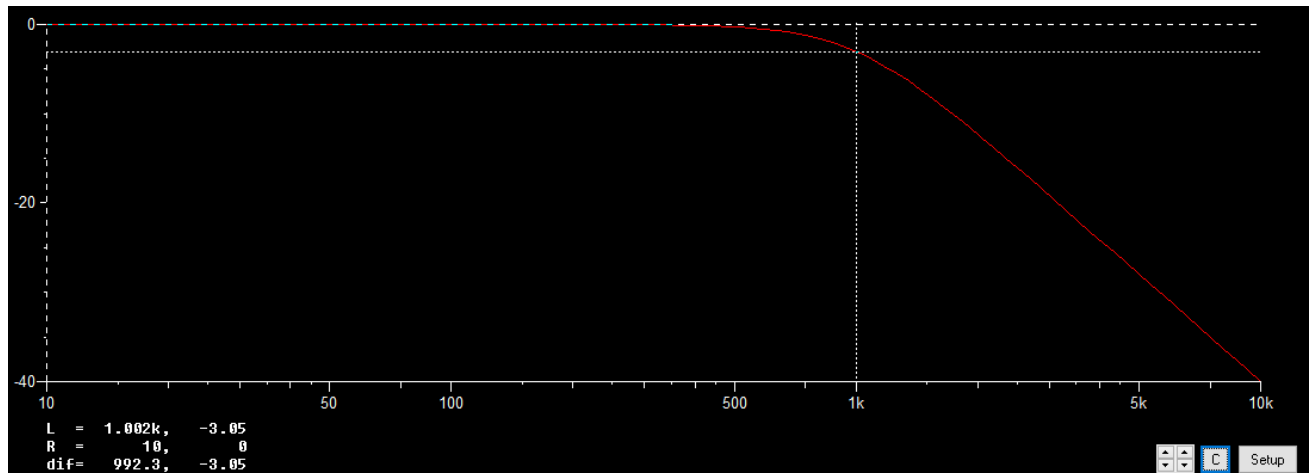
$$1 + s \cdot (R_4 \cdot C_3) + s^2 \cdot (R_1 \cdot C_1 \cdot C_2 \cdot R_4)$$



3.

$$C3 = \frac{1}{2\pi f Q R4} = \frac{1}{2\pi \cdot 1000 \cdot 0,707 \cdot 10000} = 22.511 \text{ nF}$$

$$C1 = C2 = \sqrt{\frac{1}{(2\pi f)^2 \cdot R4 \cdot R1}} = \sqrt{\frac{1}{(2\pi \cdot 1000)^2 \cdot 10000 \cdot 2000}} = 35,59 \text{ nF}$$



4.

