



Value of the capacitor (in Farads) for simple 6db/octave filter:

$$C = \frac{1}{2 \cdot \pi \cdot R \cdot f}$$

... where f = the desired crossover frequency, and R = the speaker impedance in Ω .

Value of the inductor (in Henries) for simple 6db/octave filter:

$$L = \frac{R \cdot f}{2 \cdot \pi}$$

... where f = the desired crossover frequency, and R_{spkr} is the speaker impedance in Ω .

Value of the capacitor (in Farads) for 12dB octave crossover:

$$C = \frac{1}{4 \cdot \pi^2 \cdot f_c^2 \cdot L}$$

Where L = the value of the inductor (in Henries), and f_c = the desired crossover frequency in Hertz.