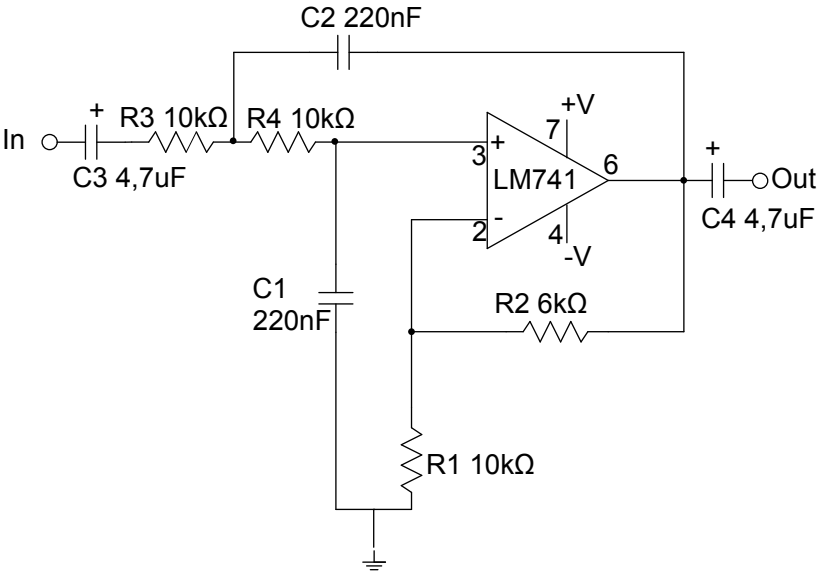


Butterworth second order low pass filter. Fc cut off frequency 72Hz



C3 and C4 stops DC voltage in and out of the filter.

$$f_c = \frac{1}{2\pi \sqrt{R_3 R_4 C_1 C_2}}$$
$$f_c = \frac{1}{2 \times 3,14 \times \sqrt{10\,000 \times 10\,000 \times (220 \times 10^{-9}) (220 \times 10^{-9})}}$$
$$f_c = \frac{1}{6,28 \times \sqrt{100\,000\,000 \times (0,000\,00022)(0,000\,00022)}}$$
$$f_c = \frac{1}{6,28 \times \sqrt{100\,000\,000(0,000\,000\,000\,000\,0484)}}$$
$$f_c = \frac{1}{6,28 \times \sqrt{0,00000484}}$$
$$f_c = \frac{1}{6,28 \times 0,0022}$$
$$f_c = \frac{1}{0,013816}$$

$f_c = 72,38\text{Hz}$, cut off

Frequency Hz	U in mV		U out mV*
15	1500		2200
20	1500		2260
25	1500		2220
30	1500		2220
35	1500		2220
40	1500		2200
45	1500		2140
50	1500		2060
55	1500		1980
60	1500		1900
65	1500		1780
70	1500		1680
75	1500		1580
150	1500		522
250	1500		225
500	1500		72
1000	1500		42

