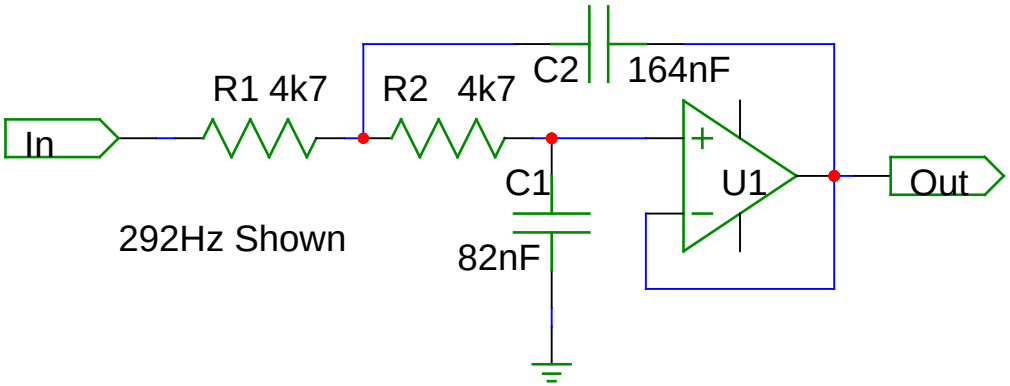
Low and High Pass Filtering



2nd Order Low Pass Filter

Sallen-Key (unity gain) / Butterworth Math (Q=0.707)

Freq = 0.707 / (2 * PI * R1 * C1)

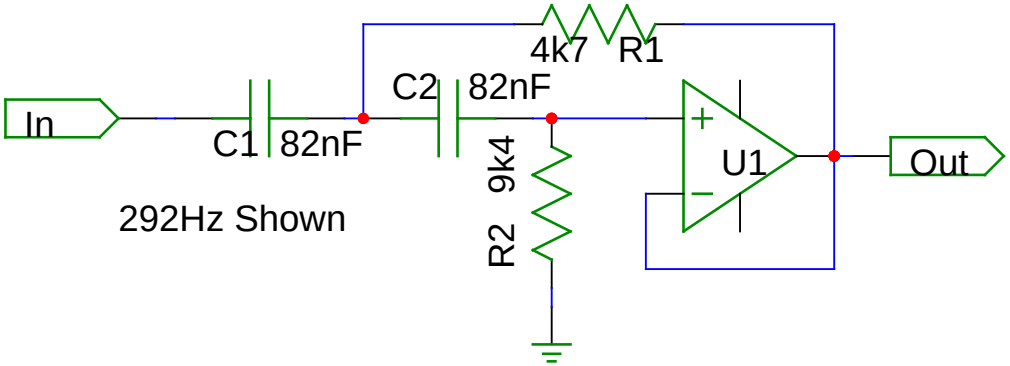
R1 = R2

C2 = 2 * C1

damping = 1 / Q

Chebychev (Q=1): C2 = 4 * C1

sub-Bessel (Q=0.5): C2 = C1



2nd Order High Pass Filter

Inverse of above filter (same equation).

C1 = C2

R2 = 2 * R1