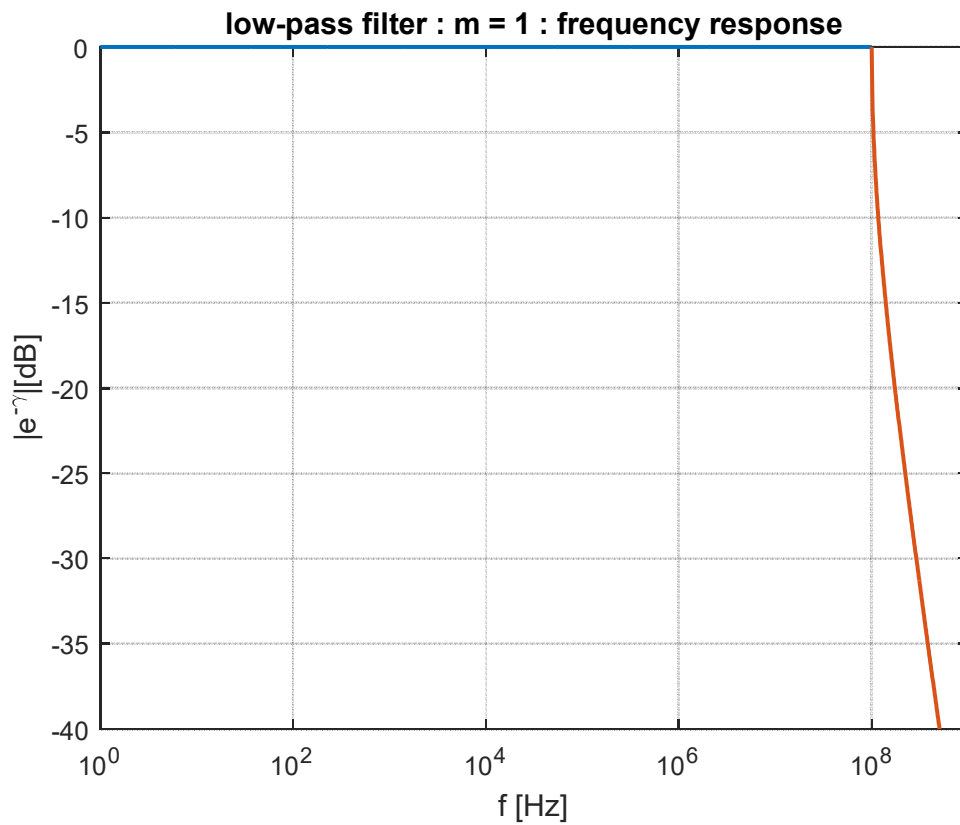
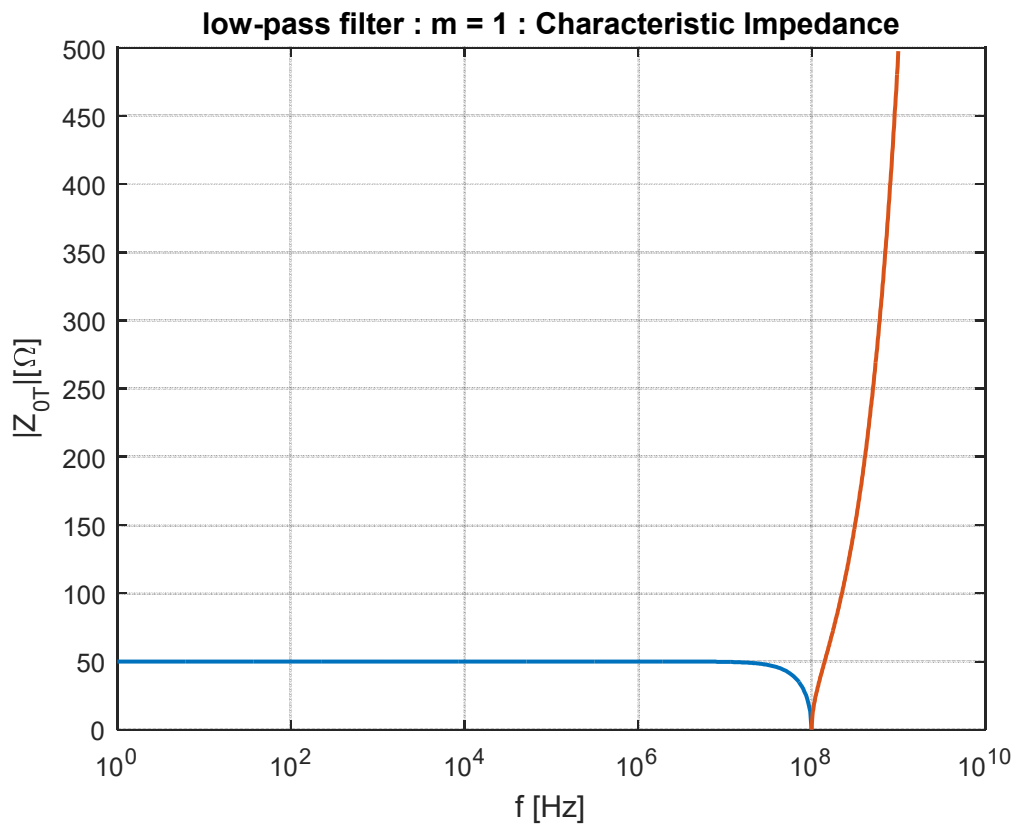


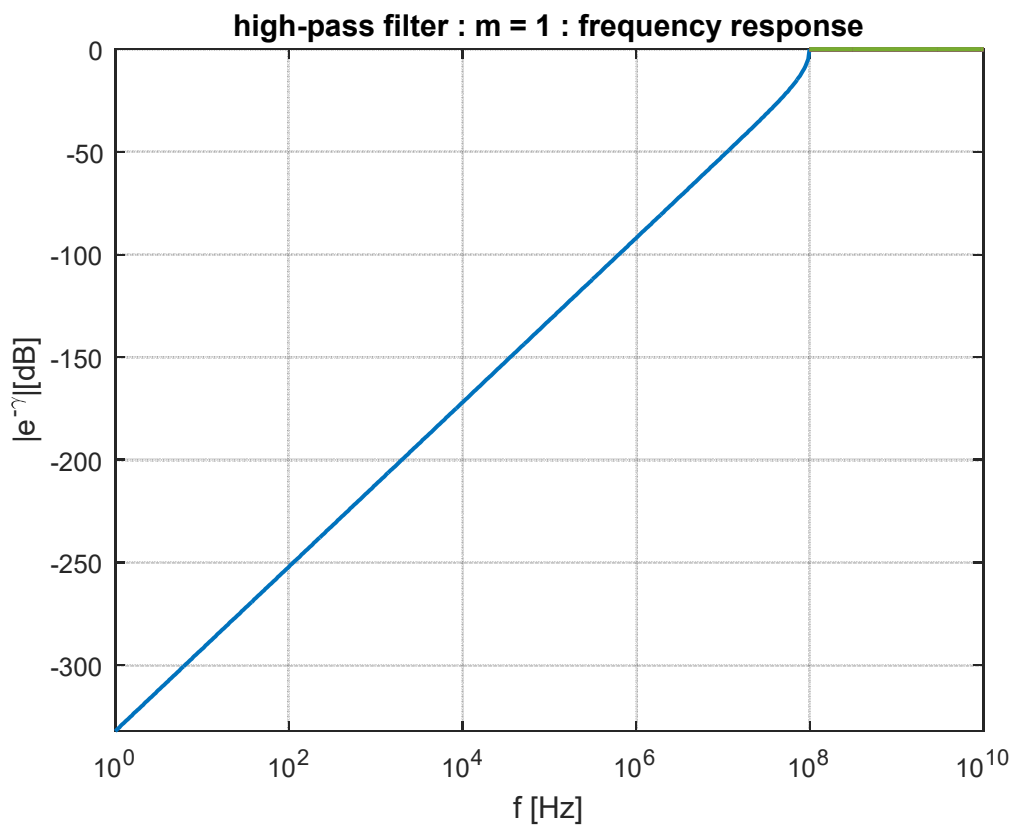
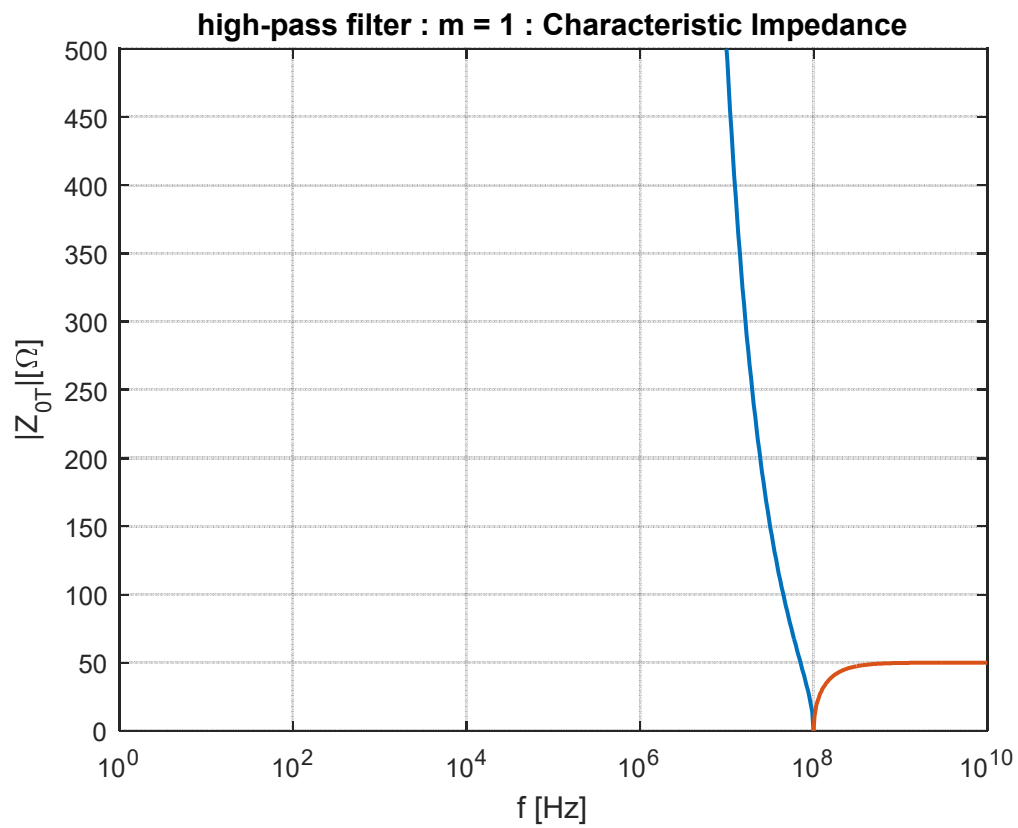
4.3 Since $L/C = R_k^2$ and $\sqrt{LC} = 1/\pi f_c$, substituting $R_k = 50$, $f_c = 100$ MHz yields

$L=159.15$ nH, $C=63.662$ pF.



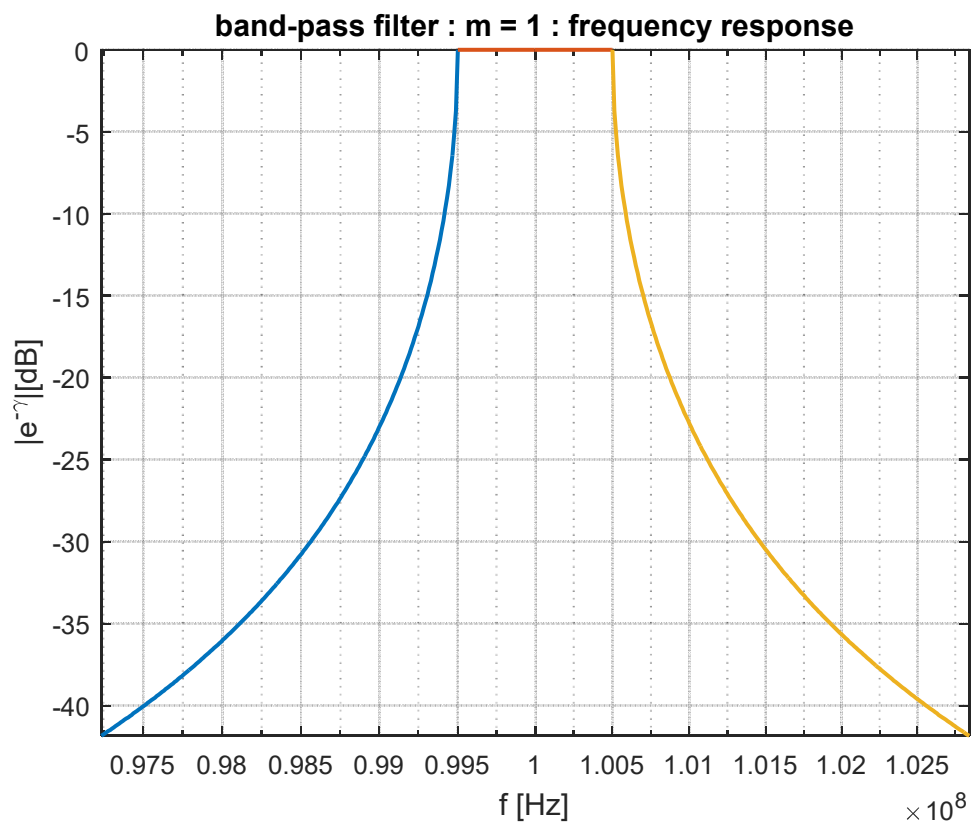
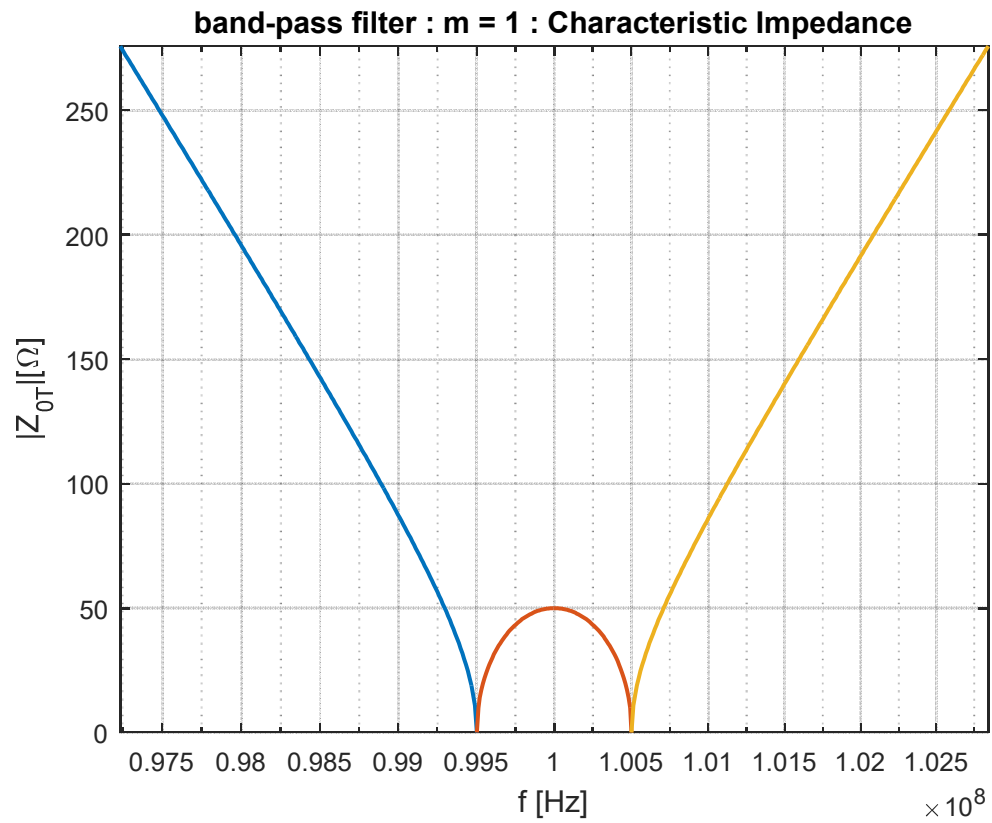
4.4 Since $L/C = R_k^2$ and $\sqrt{LC} = 1/4\pi f_c$,

$L=39.789 \text{ nH}$, $C=15.915 \text{ pF}$.



4.5 Bandpass filter

$L_1=15.915 \text{ μH}$, $C_1=.15915 \text{ pF}$, $L_2=397.89 \text{ pH}$, $C_2=6.3662 \text{ nF}$



4.5 Bandstop filter

$L_1=1.5915$ nH, $C_1=1.5915$ nF, $L_2=3.9789$ μ H, $C_2=.63662$ pF.

