RL filter

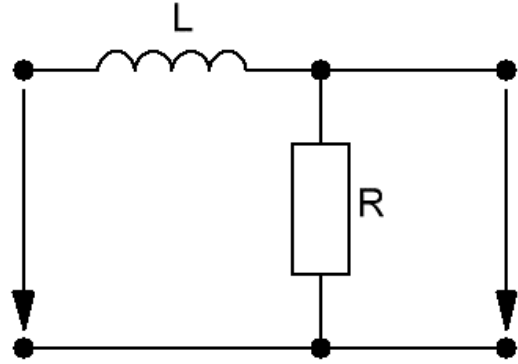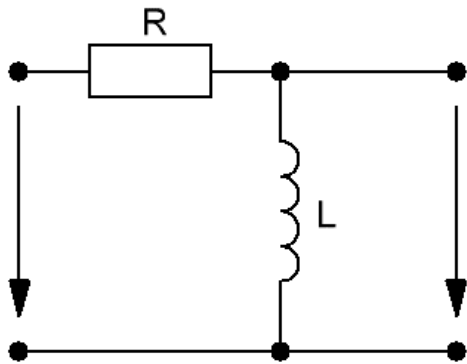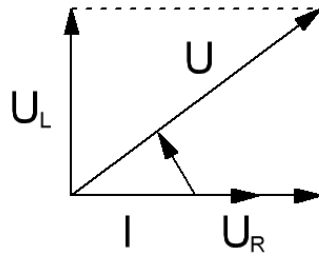|	
f = 0 $X_L = 0$ $U_{izh} = I * X_L = \dfrac{U_{VH}}{R} * 0 = 0$ $I = \dfrac{U_{VH}}{Z} = \dfrac{U_{VH}}{\sqrt{R^2 + 0}} = \dfrac{U_{VH}}{R}$	f = 0 $X_L = 0$ $U_{izh} = I * R = \dfrac{U_{VH}}{R} * R = U_{VH}$ $I = \dfrac{U_{VH}}{Z} = \dfrac{U_{VH}}{\sqrt{R^2 + 0}} = \dfrac{U_{VH}}{R}$
f = ∞ $X_L = ∞$ $U_{izh} = I * X_L = 0 * ∞$ $I = \dfrac{U_{VH}}{Z} = \dfrac{U_{VH}}{\sqrt{R^2 + ∞^2}} = \dfrac{U_{VH}}{∞} = 0$	f = ∞ $X_L = ∞$ $U_{izh} = I * R = 0 * R = 0$ $I = \dfrac{U_{VH}}{Z} = \dfrac{U_{VH}}{\sqrt{R^2 + ∞^2}} = \dfrac{U_{VH}}{∞} = 0$

RC filter

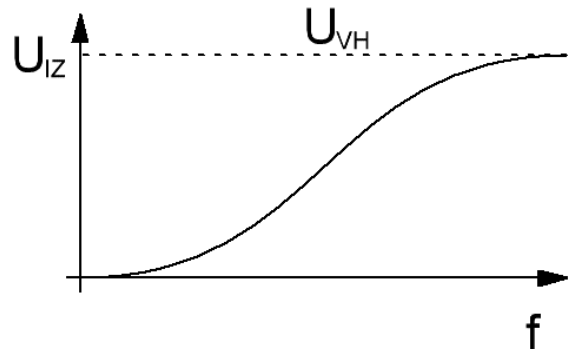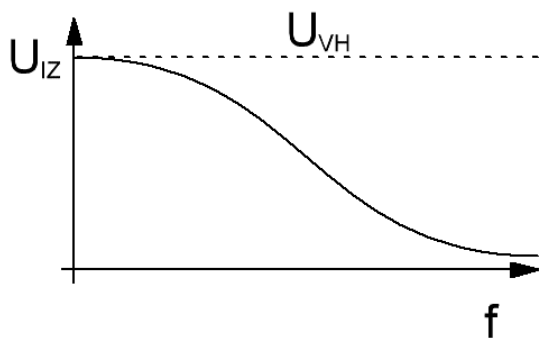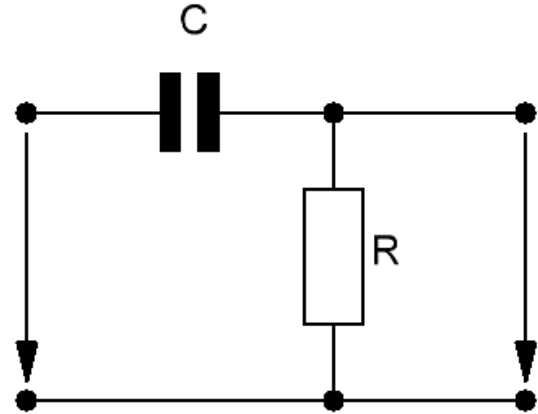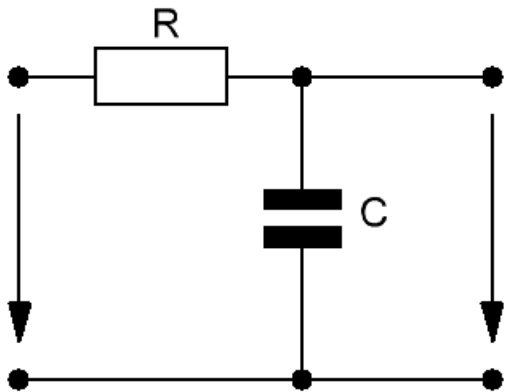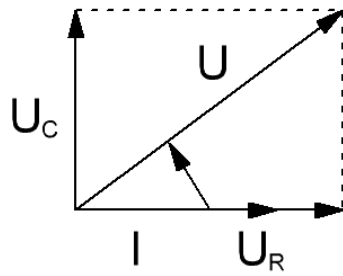|	
f = 0 $X_L = \infty$ $U_{izh} = I * X_C = 0 * \infty$ $I = \dfrac{U_{VH}}{Z} = \dfrac{U_{VH}}{\sqrt{R^2 + \infty^2}} = \dfrac{U_{VH}}{\infty} = 0$	f = 0 $X_L = \infty$ $U_{izh} = I * R = 0 * R = 0$ $I = \dfrac{U_{VH}}{Z} = \dfrac{U_{VH}}{\sqrt{R^2 + \infty^2}} = \dfrac{U_{VH}}{\infty} = 0$
f = ∞ $X_L = 0$ $U_{izh} = I * X_C = \dfrac{U_{VH}}{R} * 0 = 0$ $I = \dfrac{U_{VH}}{Z} = \dfrac{U_{VH}}{\sqrt{R^2 + 0}} = \dfrac{U_{VH}}{R}$	f = ∞ $X_L = 0$ $U_{izh} = I * R = \dfrac{U_{VH}}{R} * R = U_{VH}$ $I = \dfrac{U_{VH}}{Z} = \dfrac{U_{VH}}{\sqrt{R^2 + 0}} = \dfrac{U_{VH}}{R}$

Pasovno prepustni filter