

$$Z_{2} = j\omega L + \frac{1}{j\omega C} = j\omega L - j\frac{1}{\omega C} = j(\omega L - \frac{1}{\omega C})$$

$$\omega L = \frac{1}{\omega C}$$

$$(=) \omega = \frac{1}{1 + C}$$

$$Z_{1} = j\omega L$$

$$Z_{2} = \frac{1}{j\omega C}$$

$$Z_{1} = \frac{1}{j\omega C}$$

$$U_{2} = \frac{1}{j\omega C}$$

$$U_{3} = \frac{1}{j\omega C}$$

$$U_{4} = \frac{1}{j\omega C}$$

$$Z_2 = \frac{j\omega l \cdot j\omega c}{j\omega l} = \frac{L}{c}$$

$$\frac{L}{c}$$

$$j\omega l + \frac{1}{j\omega c}$$

2. Passive Filter

Stelle Vermutungen über den Frequenzgang folgendes Filters auf:



