

14-23 Bandpass with $\omega_0 := 5000 \text{ rad/s}$ and $B := 500 \text{ rad/s}$
 Use equal capacitor design

By definition: $\zeta := \frac{B}{2 \cdot \omega_0}$ or $\zeta = 0.05$

Use equal capacitors Let $R_2 := 10^5 \Omega$ then

$$R_1 := \zeta^2 \cdot R_2 \quad C := \frac{1}{\omega_0 \cdot \sqrt{R_1 \cdot R_2}} \quad C = 4 \times 10^{-8} \text{ F}$$

$$R_1 = 250 \Omega \quad R_2 = 1 \times 10^5 \Omega \quad C_1 := C \quad C_2 := C \quad C_1 = 4 \times 10^{-8} \text{ F} \quad C_2 = 4 \times 10^{-8} \text{ F}$$

