$A_{BP} = R_4/R_6 \rightarrow R_6 = R_4$ para $A_{BP} = 1 \rightarrow R_6 = 47K\Omega$ (Valor comercial más cercano)

$A_{BP_{dB}} = 20\log(R_4/R_6) = 20\log(50/47) = 0,537dB$

$\omega_n^2 = \frac{R_2}{R R_{f1} R_{f2} C_1 C_2} \rightarrow$ Si $R_{f1} = R_{f2} \rightarrow \omega_n = \frac{1}{R_f C_1} \rightarrow R_f = \frac{1}{2\pi 6KHz \cdot 1nF} = 26,5K\Omega \rightarrow 27K\Omega$

$\rightarrow \omega_n = \frac{1}{27K\Omega \cdot 1nF} = 2\pi \cdot 5,89KHz$

De la transferencia, $\frac{\omega_n}{Q} = 0,378 \rightarrow Q = \frac{1}{0,378} = 2,646$

$Q = \frac{1 + R_4(R_6+R_Q)/R_6R_Q}{1+R_2/R_1} \cdot \sqrt{\frac{R R_f C}{R_1 R_{f2} C_2}} \rightarrow 2 \cdot Q - 1 = R_4(R_6+R_Q)/R_6R_Q$

$R_Q \cdot \frac{R_6}{R_4} \cdot (2Q-1) = R_6 + R_Q \rightarrow R_Q(4,034-1) = R_6 \rightarrow R_Q = 47K\Omega/3,034 = 15,5K\Omega \rightarrow 15K\Omega$

$\rightarrow Q = 2,699$