Calculo do filtro RLC:

Valores selecionados:

$f = 700\,kHz \qquad B = 16\,KHz \qquad L = 90\,\mu H$

Valores calculados:

$R = B \cdot 2\,\pi \cdot L = 9{,}0478\,\Omega \qquad \omega_o = 2\,\pi f = 4398{,}2\,k\,\frac{rad}{s} \qquad C = \frac{1}{L}\left(\frac{1}{\omega_o}\right)^2 = 574{,}383\,pF$

$\omega_{c1} = -\frac{R}{2L} + \sqrt{\frac{1}{L \cdot C} + \left(\frac{R}{2L}\right)^2} = 4348{,}3\,\frac{rad}{s} \qquad \omega_{c2} = \frac{R}{2L} + \sqrt{\frac{1}{L \cdot C} + \left(\frac{R}{2L}\right)^2} = 4448{,}8\,\frac{rad}{s}$

$f_{c1} = \frac{\omega_{c1}}{2\,\pi} = 692{,}046\,kHz \qquad f_{c2} = \frac{\omega_{c2}}{2\,\pi} = 708{,}046\,kHz$