



$$\frac{2e_{IN}}{R + \frac{1}{Cs} + Ls}$$

$$e_O = e_{IN} - \frac{2e_{IN} R}{R + \frac{1}{Cs} + Ls} = e_{IN} \left[\frac{R + \frac{1}{Cs} + Ls - 2R}{R + \frac{1}{Cs} + Ls} \right]$$

$$= \frac{Ls^2 - Rcs + 1}{Lcs^2 + Rcs + 1} \equiv \text{ALLPASS}$$