$$S_4 = -(S_3 + S_1) \quad \Rightarrow \quad \frac{S_4}{e} = -\left(\frac{S_3}{e} + \frac{S_1}{e}\right)$$

$$\frac{S_4}{e} = -\left(\frac{1}{D} + \frac{(jRC\omega)^2}{D}\right)$$

$$\frac{S_4}{e} = -\frac{1 + (jRC\omega)^2}{1 + jRC\omega + (jRC\omega)^2}$$

$$\left|\frac{S_4}{e}\right| = \frac{\sqrt{[1-(RC\omega)^2]^2}}{\sqrt{[1-(RC\omega)^2]^2 + (RC\omega)^2}}$$

$\omega \to 0 \qquad \left|\frac{S_4}{e}\right| \to 1 \qquad \left|\frac{S_4}{e}\right|_{dB} \to 0 dB.$

$\omega \to \infty \qquad \left|\frac{S_4}{e}\right| \to 1 \qquad \left|\frac{S_4}{e}\right|_{dB} \to 0 dB$

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$\omega = \frac{1}{RC} \qquad \left|\frac{S_4}{e}\right| = \frac{\sqrt{[1-(1)^2]^2}}{\sqrt{[1-1^2]^2 + 1}} = 0 \Rightarrow -\infty dB$