Electronics Foundations: Basic Circuits

with Barron Stone



Challenge

Challenge: Design a passive RC filter.

Filter Requirements

- Attenuate frequencies above f-3dB ≈ 150 Hz.
- A 3dB cutoff frequency of $\frac{f_c}{c}$ = of 150 Hz ± 10 Hz is "close enough."

Goal: Choose a combination of resistors and capacitors that meet the filter requirements.