EDA CIRCUIT DESIGN

Technical specifications:

Tonic component, band: 0-0.1 HzPhasic component, band: 0.1-10 Hz

- Minimum and Maximum voltage Ina: -3V, +3V

- ADC: Flash Type

The target is the **phasic component**.

The tonic component can be approximated by a sine wave having an amplitude equal to 0.1 V and frequency equal to 0.01 Hz.

Filter's objective:

- Attenuate the tonic component so that it has an amplitude less than or equal to 10 mV.
- Filter out by at least 50 dB the noise introduced by the motor control electronics of the exoskeleton (band: 200-500 Hz).
- Provide a maximum attenuation of 3 dB in passband.