Customer requirements/requirements specification

* Loudness - Reaches 100dB
* Frequency range - 20hz – 20Khz
* Sound quality

Design specification

Loudness

* dB sensitivity
* Output power
  + Supply power required

Frequency Range

* Woofer with signal filtering

Sound quality

* Minimal noise (hum)
  + Bypass capacitors
  + PCB layout
  + Proper grounding
* Muting
* Cut-out voltages