

Instruction for loudspeaker kit

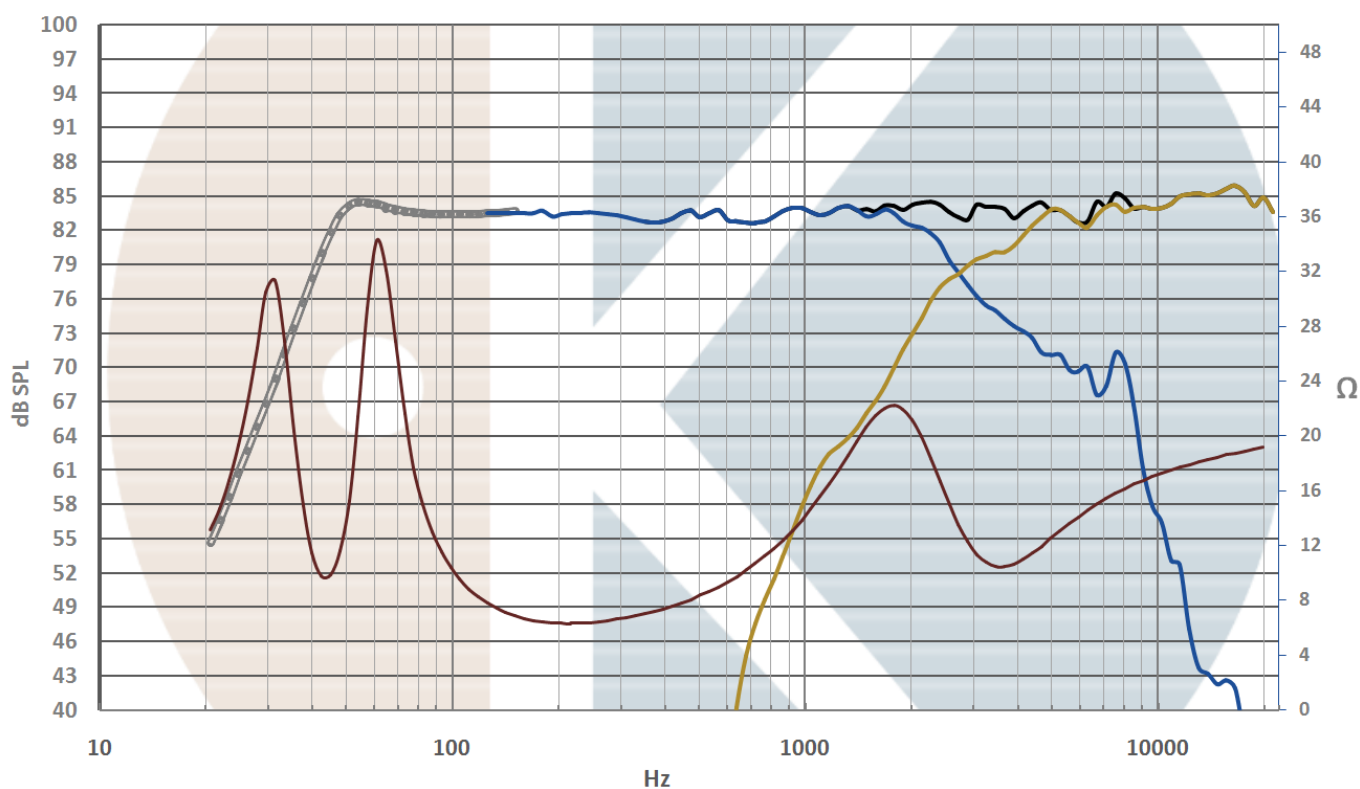
Kourtisane 4.2 is a loudspeaker kit dedicated to audio systems passionate, DIYers, music lovers.
It can be used as compact Hi-Fi stereo system, Home theater speaker, or studio monitoring speaker.



The required Cartesian components are:

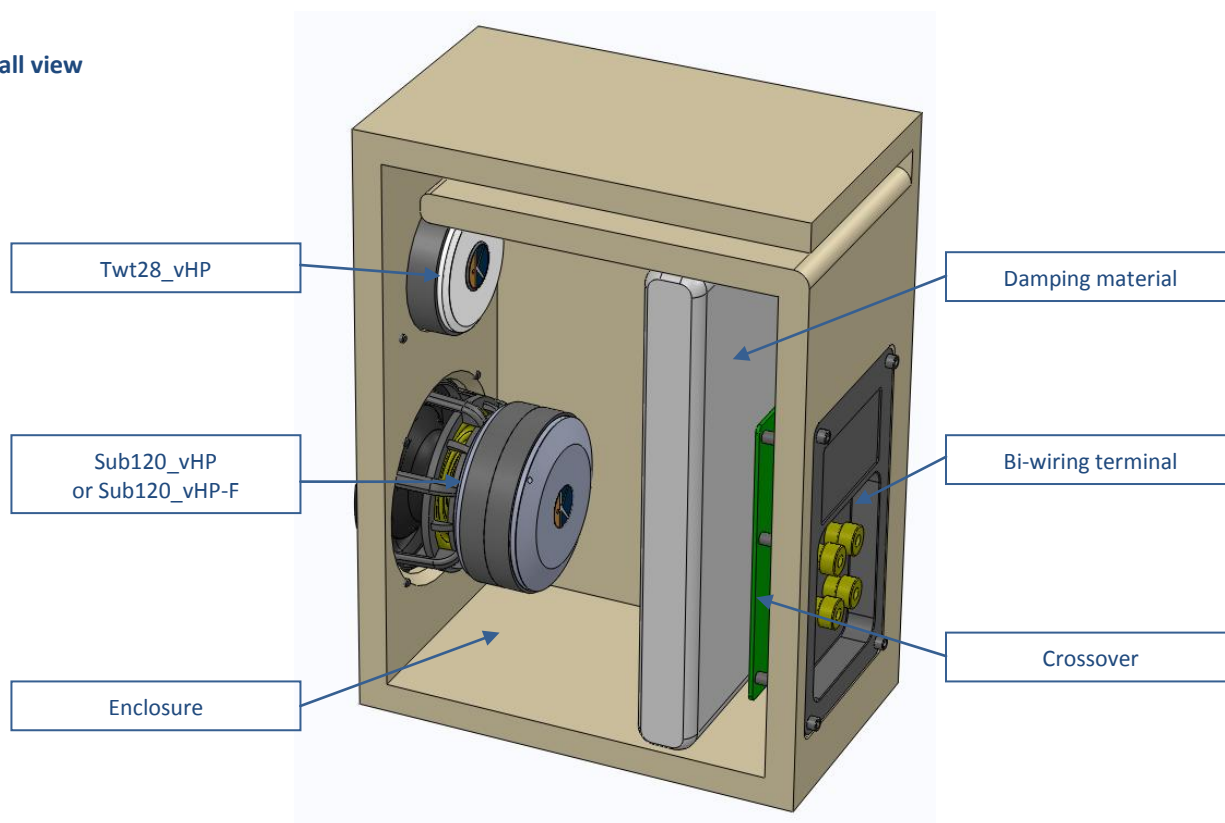
- Sub120_vHP (or Sub120_vHP-F)
- Twt28_vHP
- Crossover Kourtisane 4.2
- Terminal Bi-wiring terminal

Enclosure must be built according to following drawing.



*Kourtisane 4.2 / Distance: 1m / Signal input: 2,83V / On axis
Impedance measured in Kourtisane 4.2 / Smoothing: 1/6 Octave
Curve below 150Hz is simulated in 5.5L vented enclosure, $F_c = 48\text{Hz}$
(Kourtisane 4.2)*

Overall view



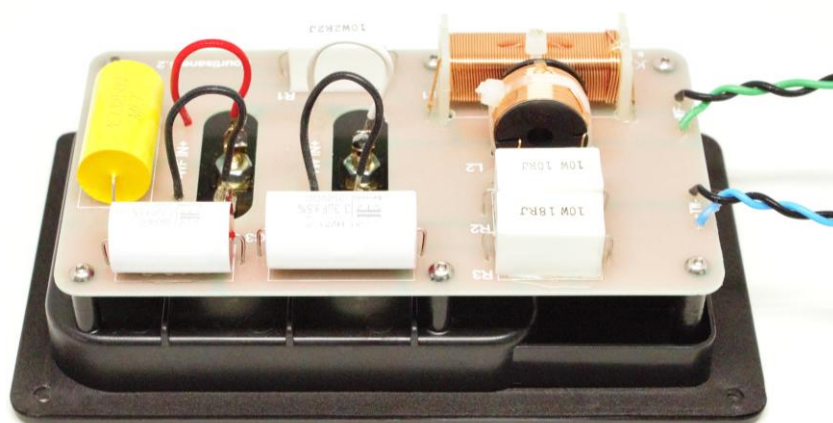
Crossover kit.

Wires to connect loudspeakers and terminal are included on crossover (Silver plated cooper)

Low-pass filter is 1st order with impedance correction / High-pass filter is a 3rd order with L-Pad attenuation.

High quality capacitors are used for the high-pass filter.

The PCB is designed to be screwed on Kartesian terminal as shown below (separately sold).



Damping material

We recommend to used synthetic acoustic damping

2 sheets of 130mm x 280mm, thickness 30mm provide good compromise for bass extension and control.

Additional damping will slow down the air velocity and decrease the energy in low frequency.

Drawing

Material : MDF, thickness : 15mm

Unit : mm

