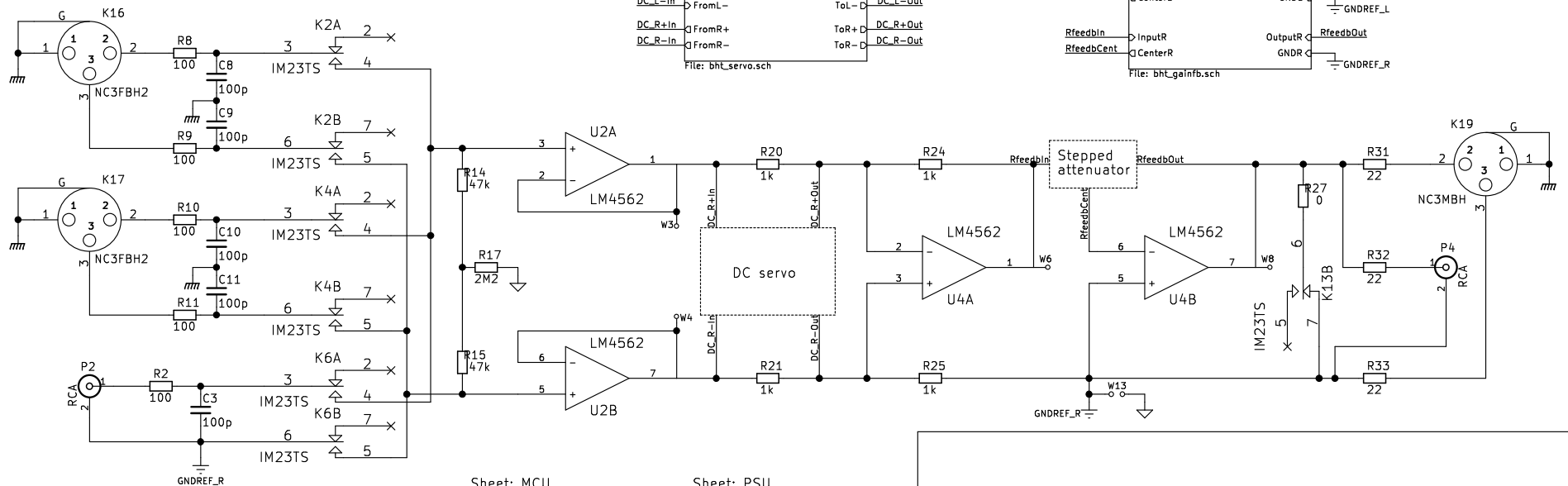
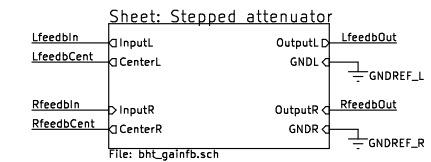
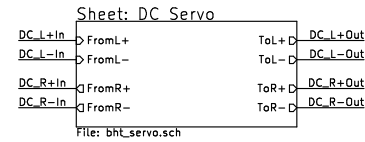
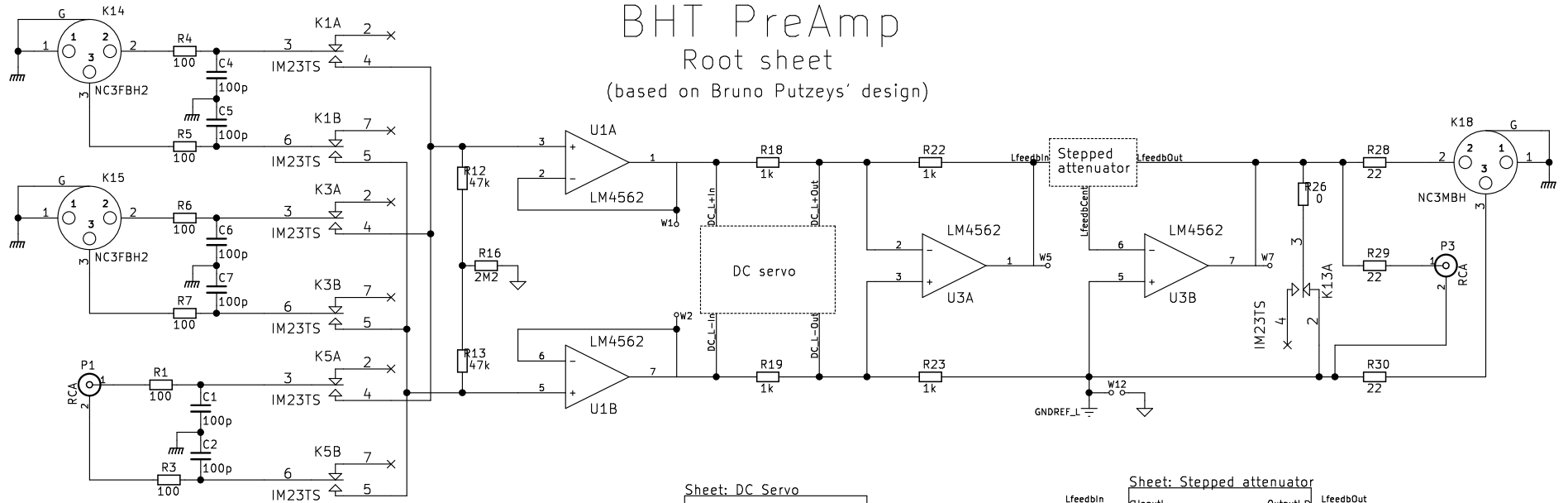


BHT PreAmp

Root sheet

(based on Bruno Putzeys' design)



Sheet: MCU

Sheet: PSU

File: bht_mcu.sch

File: bht_psu.sch

Tomi Nihitilä (Bruno Putzeys, Hans Polak)

Sheet: /
File: BHT_PreAmp_v10A.sch

Title: BHT PreAmp

Size: A4 Date: 2017-04-09

KiCad E.D.A. kicad 4.0.1-stable

Rev: V1.0A

Id: 1/5

BHT PreAmp

Stepped Attenuator

(design by Hans Polak)

64 steps, 1 dB/step.

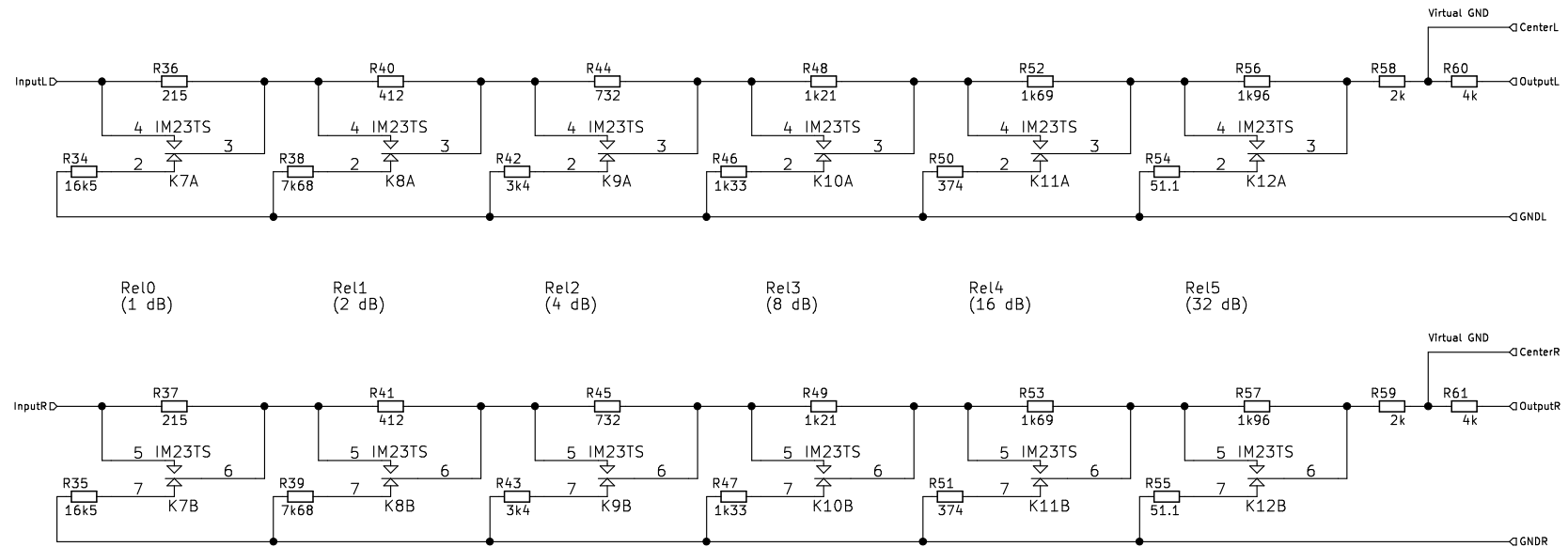
Max gain is R60/R58 (R61/R59).

With shown values:

—all relays on = +6 dB

—all relays off = +57 dB

Input impedance is 2 kohm
(and independent from R58–R61).



Sheet: /Stepped attenuator/
File: bht_gainfb.sch

Title:

Size: A4

Date:

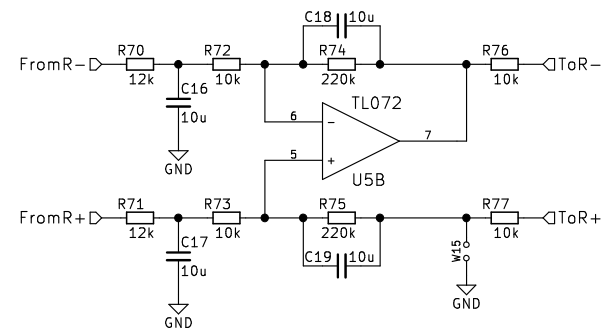
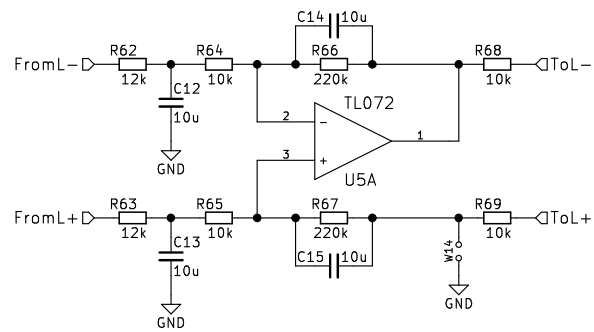
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Rev:

Id: 2/5

BHT PreAmp

DC Servo



Sheet: /DC Servo/
File: bht_servo.sch

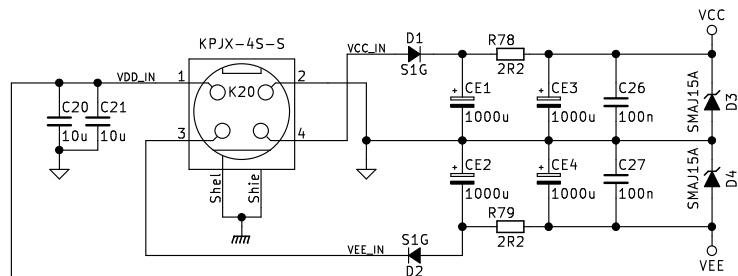
Title:

Size: A4
KiCad E.D.A. kicad 4.0.1-stable

Date:

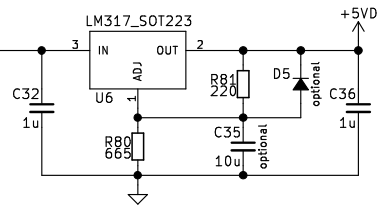
Rev:
Id: 3/5

BHT PreAmp PSU

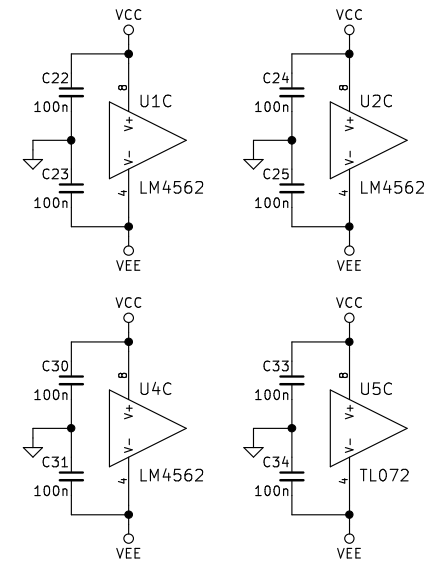
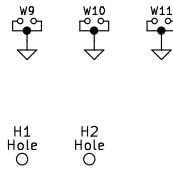
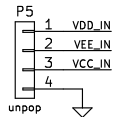


D1 and D2 are optional. They prevent other circuits/boards using the same supply from discharging reservoir caps as power-down mute relies on VDD collapsing faster than VCC/VEE.
D3 and D4 are also optional protection.

MCU supply



Alternative connector



Sheet: /PSU/
File: bht_psu.sch

Title:

Size: A4 Date:
KiCad E.D.A. kicad 4.0.1-stable

Rev:
Id: 4/5

