

**Tyrrell Zalbatsu**

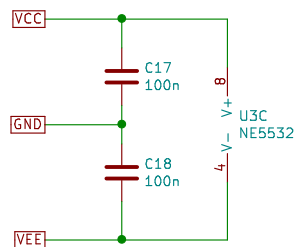
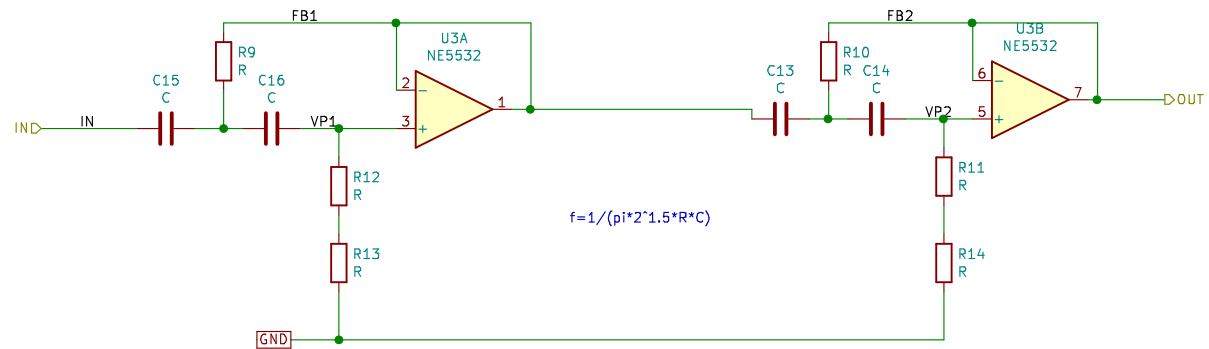
Sheet: /LP mid L/  
File: LR4LP.sch

**Title: 4th Order Linkwitz-Riley Low-Pass**

Size: A4  
KiCad E.D.A. kicad 5.1.5+dfsg1-2build2

Date: 2021-10-03

Rev: A  
Id: 2/17



**Tyrrell Zalbatsu**

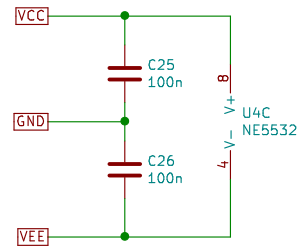
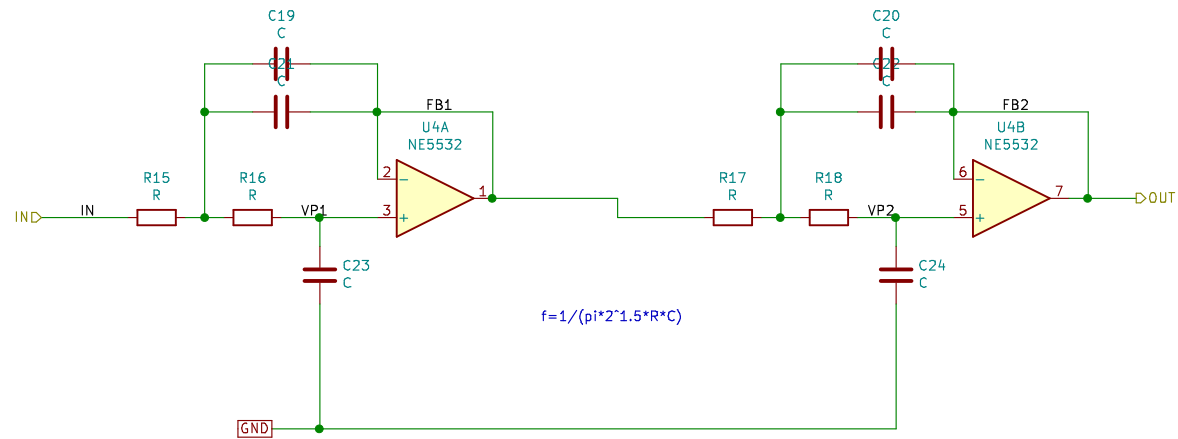
Sheet: /HP mid R/  
File: LR4HP.sch

**Title: 4th Order Linkwitz-Riley High-Pass**

Size: A4  
KiCad E.D.A. kicad 5.1.5+dfsg1-2build2

Date: 2021-10-03

Rev: A  
Id: 3/17



**Tyrrell Zalbatsu**

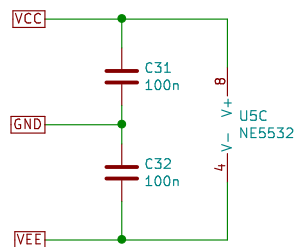
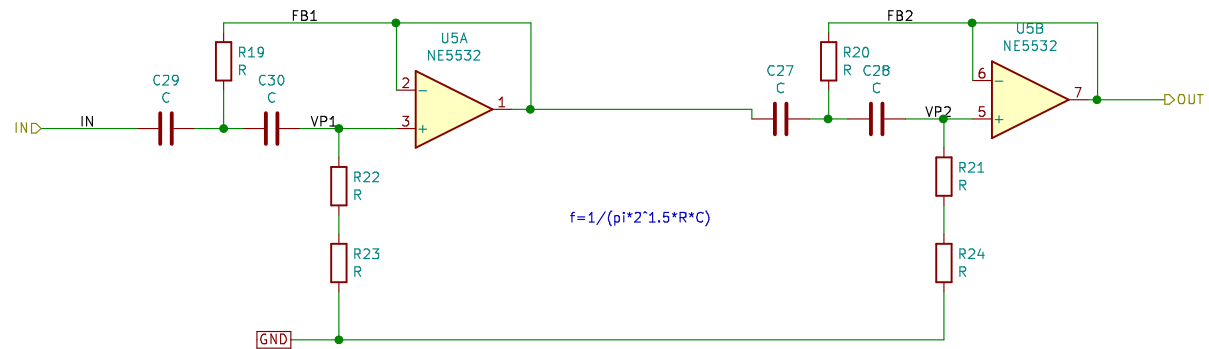
Sheet: /LP mid R/  
File: LR4LP.sch

**Title: 4th Order Linkwitz-Riley Low-Pass**

Size: A4  
KiCad E.D.A. kicad 5.1.5+dfsg1-2build2

Date: 2021-10-03

Rev: A  
Id: 4/17



**Tyrrell Zalbatsu**

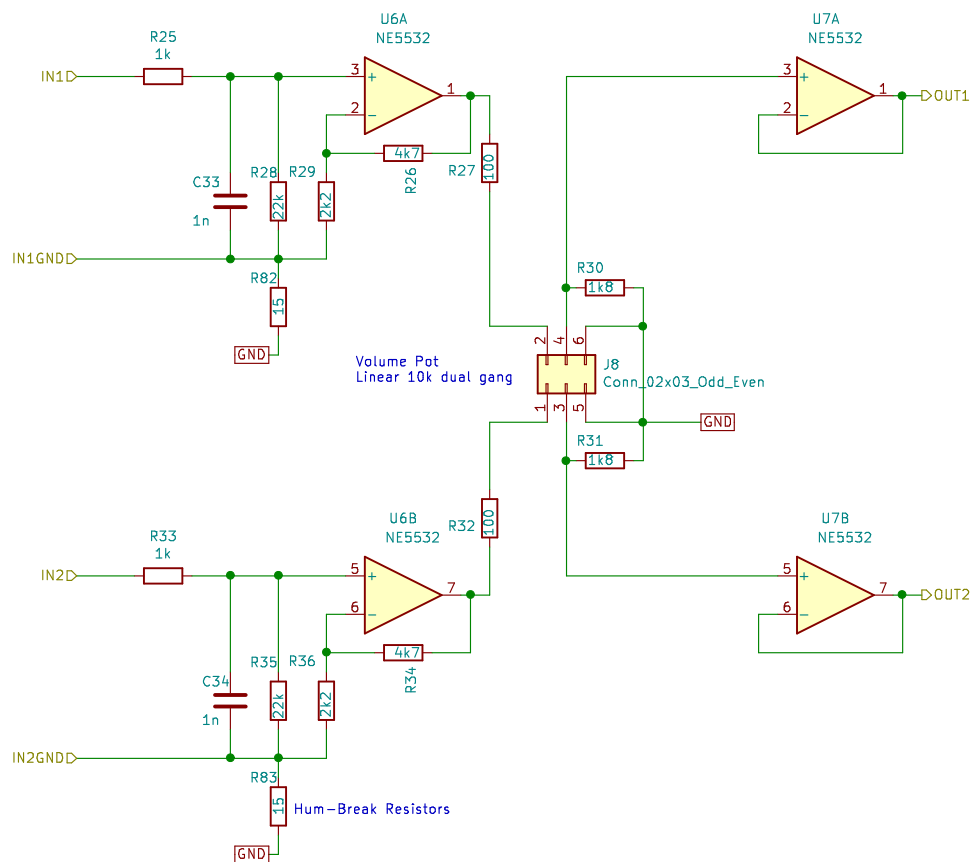
Sheet: /HP tweet L/  
File: LR4HP.sch

**Title: 4th Order Linkwitz-Riley High-Pass**

Size: A4  
KiCad E.D.A. kicad 5.1.5+dfsg1-2build2

Date: 2021-10-03

Rev: A  
Id: 5/17



Tyrrell Zalatsu

Sheet: /inbuf/

File: inbuf.sch

**Title: Input Buffers, 10dB Gain**

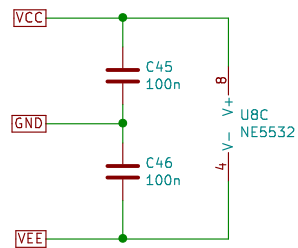
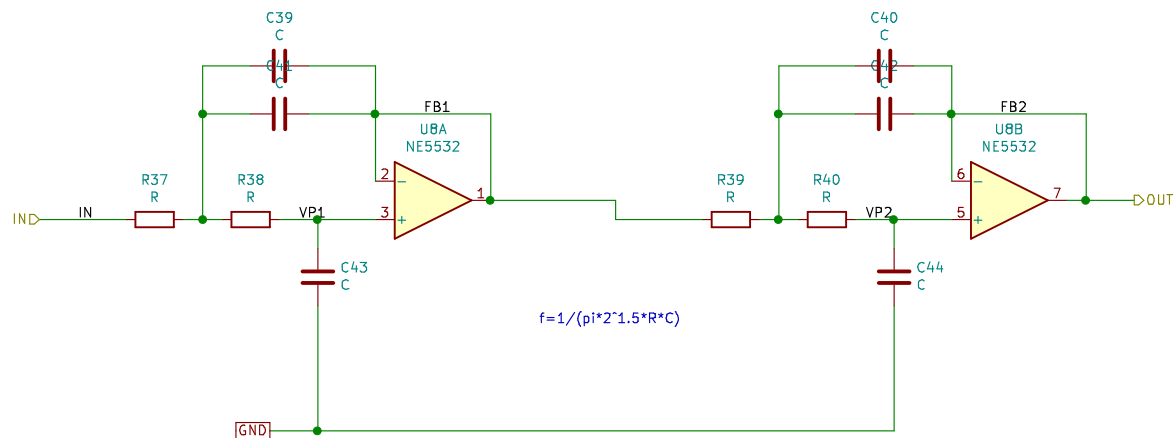
Size: A4

Date: 2022-01-12

Rev: B

KiCad E.D.A. kicad 5.1.5+dfsg1-2build2

Id: 6/17



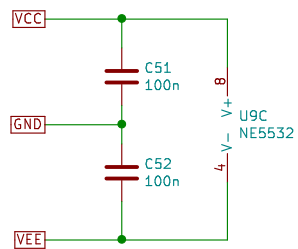
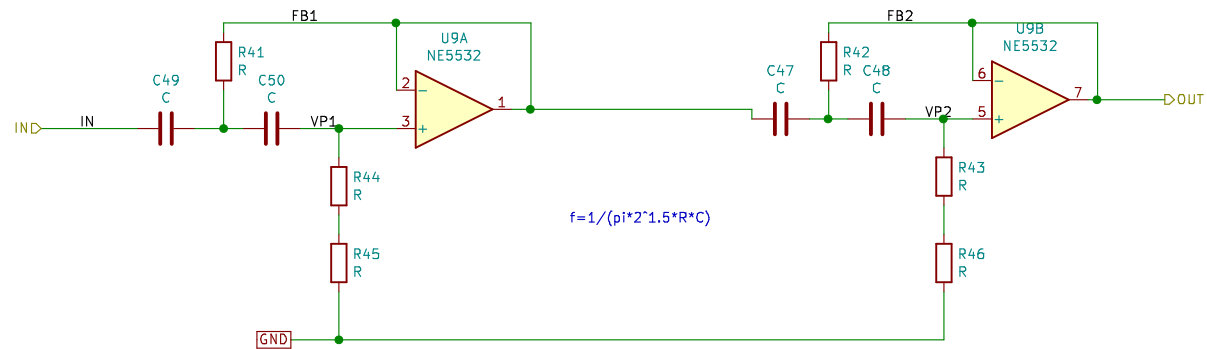
**Tyrrell Zalbatsu**

Sheet: /LP sub/  
File: LR4LP.sch

**Title: 4th Order Linkwitz-Riley Low-Pass**

Size: A4 Date: 2021-10-03  
KiCad E.D.A. kicad 5.1.5+dfsg1-2build2

**Rev: A**  
Id: 7/17



**Tyrrell Zalbatsu**

Sheet: /HP mid L/  
File: LR4HP.sch

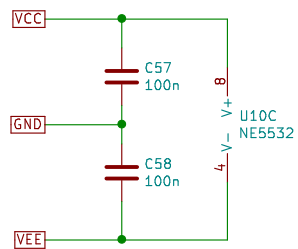
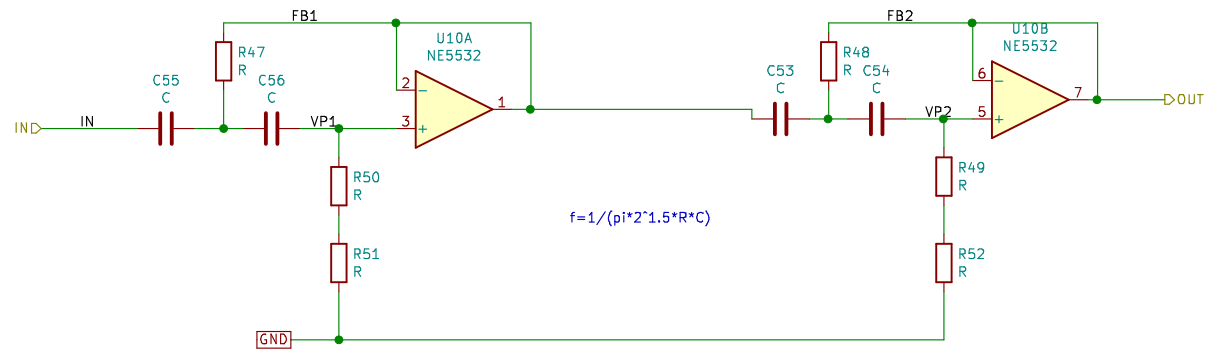
**Title: 4th Order Linkwitz-Riley High-Pass**

Size: A4  
KiCad E.D.A. kicad 5.1.5+dfsg1-2build2

Date: 2021-10-03

**Rev: A**  
Id: 8/17





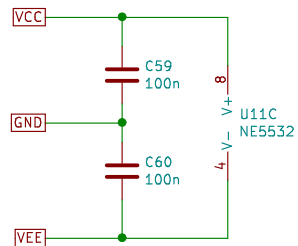
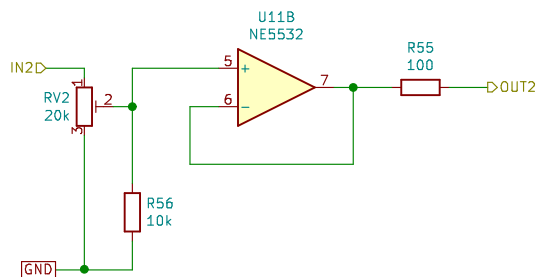
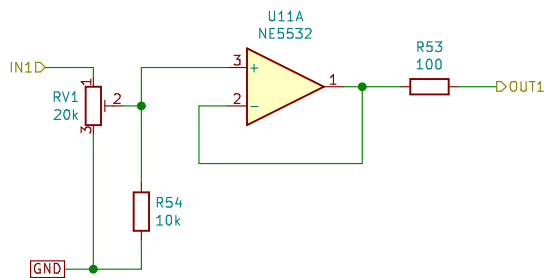
**Tyrrell Zalbatsu**

Sheet: /HP tweet R/  
File: LR4HP.sch

**Title: 4th Order Linkwitz-Riley High-Pass**

Size: A4  
KiCad E.D.A. kicad 5.1.5+dfsg1-2build2

Rev: A  
Id: 9/17



**Tyrrell Zalbatsu**

Sheet: /mid gain/

File: gain.sch

**Title: Output Gain Controls**

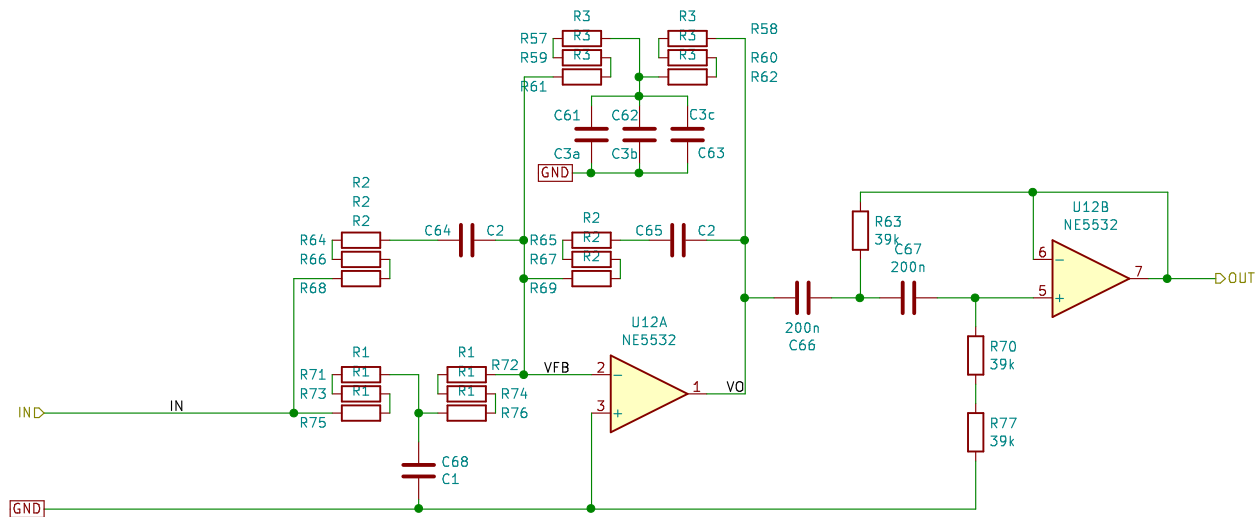
Size: A4

Date: 2021-10-03

**Rev: A**

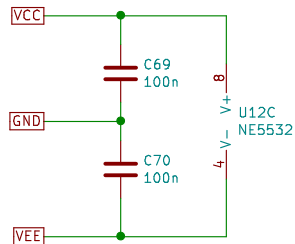
KiCad E.D.A. kicad 5.1.5+dfsg1-2build2

Id: 10/17



Linkwitz Transform is inverting!

Butterworth High Pass, subsonic filter  
 $f = 1 / (\pi \cdot 2 \cdot 1.5 \cdot R \cdot C)$   
 $200n / 39k = 14.4Hz$   
 $200n / 25k = 22.5Hz$



Port for pluggable RC network  
(Linkwitz Transform Only)

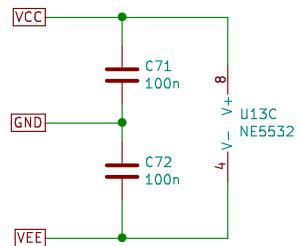
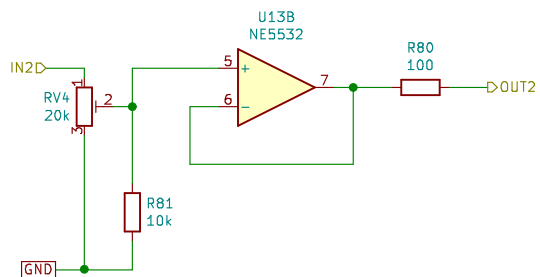
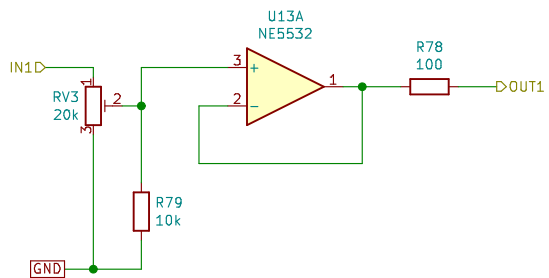
**Tyrrell Zaibatsu**

Sheet: /equaliser/  
File: equaliser.sch

**Title: Linkwitz Transform**

Size: A4 Date: 2021-10-03  
KiCad E.D.A. kicad 5.1.5+dfsg1-2build2

**Rev: A**  
Id: 11/17



**Tyrrell Zalbatsu**

Sheet: /tweet gain/

File: gain.sch

**Title: Output Gain Controls**

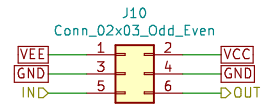
Size: A4

Date: 2021-10-03

**Rev: A**

KiCad E.D.A. kicad 5.1.5+dfsg1-2build2

Id: 12/17



**Tyrrell Zalbatsu**

Sheet: /APF L/

File: extern.sch

**Title: Header for external transform**

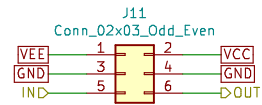
Size: A4

Date: 2021-10-05

**Rev: A**

KiCad E.D.A. kicad 5.1.5+dfsg1-2build2

Id: 13/17



**Tyrrell Zalbatsu**

Sheet: /APF R/

File: extern.sch

**Title: Header for external transform**

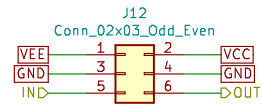
Size: A4

Date: 2021-10-05

**Rev: A**

KiCad E.D.A. kicad 5.1.5+dfsg1-2build2

Id: 14/17



**Tyrrell Zalbatsu**

Sheet: /BSC L/

File: extern.sch

**Title: Header for external transform**

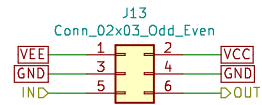
Size: A4

Date: 2021-10-05

**Rev: A**

KiCad E.D.A. kicad 5.1.5+dfsg1-2build2

Id: 15/17



**Tyrrell Zalbatsu**

Sheet: /BSC R/

File: extern.sch

**Title: Header for external transform**

Size: A4

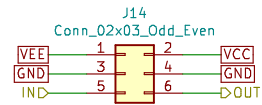
Date: 2021-10-05

**Rev: A**

KiCad E.D.A. kicad 5.1.5+dfsg1-2build2

Id: 16/17





**Tyrrell Zalbatsu**

Sheet: /notch/

File: extern.sch

**Title: Header for external transform**

Size: A4

Date: 2021-10-05

**Rev: A**

KiCad E.D.A. kicad 5.1.5+dfsg1-2build2

Id: 17/17